

Cancer Prevention and Research Institute of Texas

Oversight Committee

Nominations Subcommittee Meeting

May 13, 2014

Basic Cancer Research Panel 1 Tom Curran, Ph.D./FRS, Chair

Peer Review Panel Members for Approval

- 1. Allan Balmain, Ph.D.
- 2. Steve Fiering, Ph.D.
- 3. Jacquelyn Hank, Ph.D.
- 4. Frank Rauscher, Ph.D.
- 5. Heide Schatten, Ph.D.
- 6. Joshua Schiffman, M.D.
- 7. Bart Williams, Ph.D.
- 8. Yu-Ching Yang, Ph.D.

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE	
Balmain, Allan	Professo	Professor in Residence	
eRA COMMONS USER NAME (credential, e.g., agency login abalmain)		
EDUCATION/TRAINING (Begin with baccalaureate or other residency training if applicable.)	nitial professional educati	on, such as nursing, ir	nclude postdoctoral training and
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of Glasgow	BSc	1966	Hons. Chemistry

INSTITUTION AND LOCATION	(if applicable)	MM/YY	FIELD OF STUDY
University of Glasgow	BSc	1966	Hons. Chemistry
University of Glasgow	PhD	1969	Organic Chemistry
German Cancer Research Centre, Heidelberg, West Germany	Postdoctoral	1971-72	
University of Strasbourg, France	Postdoctoral	1969-71	

A. Personal Statement

The goal of our research is to identify the genetic events that underlie multistage epithelial tumor development, using mouse models of cancer. We have focused on models that recapitulate the genetic heterogeneity in human populations, with a view to development of approaches to personalized diagnosis and treatment. The models used have primarily been focused on skin, but also include comparative analyses of lung carcinomas and lymphoma. The focus of the most recent projects is the development of "Systems Genetics" approaches to analysis of multistage carcinogenesis. These seek to integrate multidimensional data sets to provide a network view of normal genetic architecture in mouse and human tissues, and the perturbations that take place during development of benign tumors and their progression to metastasis. Studies to date have revealed important roles for genes and pathways linked to stem cell fate decisions, cell cycle control, and inflammation. These gene expression network approaches represent a novel and highly promising route to the identification of the critical interacting components of important cancer signaling pathways.

B. Professional Experience

1972-1976	Tenured member of staff, German Cancer Research Centre, Heidelberg, Germany
1976-1982	Staff Scientist, Beatson Institute for Cancer Research, Glasgow
1982-1994	Group Leader, Beatson Institute for Cancer Research, Glasgow
1984-1994	CRC Special Appointment
1994-1996	Director of Laboratory Research, Professor of Molecular Oncology, University of Glasgow,
	Jerry Turner Fellow of the Cancer Research Campaign
1996-1999	Vice President, Research, Onyx Pharmaceuticals, Richmond CA
1999-2001	Professor of Cancer Genetics, Cancer Research Institute and
	Department of Biochemistry and Biophysics, University of California-San Francisco
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2001-present: Barbara Bass Bakar Distinguished Professor of Cancer Genetics, UCSF Helen Diller Family Comprehensive Cancer Center

Co-Leader, UCSF Cancer Genetics Program. Director, Genome Analysis Core

Honors

1970	Royal Society European Programme Fellowship
1971	Alexander Von Humboldt-Stiftung Fellowship
1991	Keynote Lecture, UK MBCN, Warwick
1992	Distinguished Lecturer Series, Yale University
1993	Keynote Lecture, ECCO 7 London
1995	Fellow of the Royal Society of Edinburgh
1999	UICC Roll of Honor
2000	Tom Connors Prize and Lecture, British Association for Cancer Research

2013 2013

2003 Distinguished Lecturer Series, Harvard University School of Public Health 2004 Distinguished Visitor, Biomedical Research Council, Singapore 2004 The DiMaggio Lecture, Dana Farber Cancer Center 2006 Opening lecture, AACR conference on Cancer Susceptibility and Cancer Susceptibility Syndromes, Hawaii 2007 The Cori Award Lecture, Roswell Park, Buffalo, NY 2007 Keynote Address, CCRI, University of Texas, San Antonio, TX 2007 John B. Little Award, Harvard School of Public Health 2008 Keynote lecture, McArdle Cancer Center Symposium 2008 Keynote Lecture, European Symposium on Hormones and Cell Regulation Mont Ste Odile, France 2009 Keynote Lecture and J.Walter Juckett Distinguished Lecture, Vermont Cancer Center Keynote Lecture, 56th Annual Radiation Research Society Symposium, Hawaii 2010 Keynote Lecture, University of Maastricht Genetics Meeting, Maastricht 2010 American Skin Association Achievement Award 2011

Herman Beerman Award, Society for Investigative Dermatology

Elected Fellow of the American Academy of Arts and Sciences.

- C. Selected Peer-reviewed Publications (from last 10 years).
 - 1. To MD, Perez-Losada J, Mao J-H, Hsu J, Jacks T, **Balmain** A. A functional switch from lung cancer resistance to susceptibility at the *Pas1* locus in Kras2^{LA2} mice. **Nature Genetics**. 2006 Aug;38(8):926-30.
 - 2. Wakabayashi Y, Mao, JH, Brown K, Girardi M and **Balmain** A. Promotion of Hras-induced squamous carcinomas by a polymorphic variant of the Patched gene in FVB mice. **Nature**. 2007 Feb 15;445(7129):761-5.
 - 3. Mao JH, Wu D; Perez-Losada J, Jiang T, Li Q; Neve RM, Gray JW, Cai WW, **Balmain A**. Crosstalk between Aurora-A and p53: frequent deletion or downregulation of Aurora-A in tumors from p53 null mice. **Cancer Cell**. 2007 Feb;11(2):161-73.
 - 4. To MD, Wong CE, Karnezis AN, Del Rosario R, Di Lauro R, and **Balmain** A. *Kras* regulatory elements and exon 4A determine mutation specificity in lung cancer, **Nature Genetics**. 2008 Oct;40(10):1240-4.
 - Mao JH, Kim IJ, Wu D, Climent J, Kang HC, DelRosario R, Balmain A. FBXW7 targets mTOR for degradation and cooperates with PTEN in tumor suppression. Science. 2008 Sep 12;321(5895):1499-502.
 - Quigley DA, To MD, Pérez-Losada J, Pelorosso FG, Mao JH, Nagase H, Ginzinger DG, and Balmain A. Genetic architecture of mouse skin inflammation and tumor susceptibility. Nature. 2009 Mar 26;458(7237):505-8.
 - 7. Quigley DA, To MD, Kim IJ, Lin, K, Albertson DG, Sjolund J, Pérez-Losada J and **Balmain A**. Network analysis of skin tumor progression identifies a rewired genetic architecture affecting inflammation and tumor susceptibility. **Genome Biology** 2011, 12:R
 - 8. Wang YV, Leblanc M, Fox N, Mao JH, Tinkum KL, Krummel K, Engle D, Piwnica-Worms D, Piwnica-Worms H, **Balmain A**, Kaushansky K, Wahl GM. Fine-tuning p53 activity through C-terminal modification significantly contributes to HSC homeostasis and mouse radiosensitivity. **Genes Dev**. 2011 Jul 1;25(13):1426-38
 - Mao JH, Wu D, Kim IJ, Kang HC, Wei G, Climent J, Kumar A, Pelorosso FG, Delrosario R, Huang EJ, Balmain A. Hipk2 cooperates with p53 to suppress γ-ray radiation-induced mouse thymic lymphoma. Oncogene. 2011 Jul 25. doi: 10.1038/onc.2011.306.
 - 10. To MD, Quigley DA, Mao JH, Del Rosario R, Hsu J, Hodgson G, Jacks T, **Balmain** A. Progressive Genomic Instability in the FVB/KrasLA2 Mouse Model of Lung Cancer. **Mol Cancer Res**. 2011 Sep 20.
 - 11. To MD, Rosario, RD, Westcott, PM, Banta KL, **Balmain** A. Interactions between wild type and mutant Ras genes in lung and skin carcinogenesis. **Oncogene**. 2012 Sep 3. doi: 10.1038/onc.2012.404
 - 12. Kang, HC, Quigley DA, Kim IJ, Wakabayashi Y, Ferguson-Smith MA, D'Alessandro, M, Lane EB, Akhurst RJ, Goudie DR and **Balmain A.** Multiple Self-Healing Squamous Epithelioma (MSSE): rare

NAME	POSITION TITLE
Steven N. Fiering, Ph.D.	Associate Professor
eRA COMMONS USER NAME	
SNFIERING	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Michigan, Ann Arbor	B.S.	1969-1975	Geology
Eastern Michigan University	M.S.	1983-1984	Microbiology
Stanford University	Ph.D.	1985-1990	Genetics
Fred Hutchinson Cancer Research Ctr., Seattle	Postdoc	1991-1997	Genetics

A. Personal statement

I established the Dartmouth Transgenic and Genetic Construct Shared Resource upon my recruitment to Dartmouth in 1997 and have directed it since. In 2002 the Core C of the Immunology INBRE was funded as part of that grant and we have developed and provided genetically modified and experimentally manipulated mice under that grant ever since. The Immunology INBRE is in its third round of funding and we are focused on providing published immunologically relevant mouse models that are not currently available at Dartmouth. In that context we have established the ability to generate mice with humanized lymphocyte compartments and plan to continue to expand on that to include mice with myeloid as well as lymphoid humanization through hydrodynamic injection of human cytokine plasmids. We are enthused to collaborate with Dr. Berwin on developing these new models and providing them to him for experimental use.

B. Positions and Honors

Employment / Experience

1975-1982 The Soy Plant, Ann Arbor, MI, Partner in a food processing business.

9/82-12/84 Eastern Michigan University, Teaching Assistant, Microbiology

9/85- 9/90 Graduate student in the laboratory of Dr. Len Herzenberg at Stanford

10/90-9/91 Research Group Leader, AFRC Centre for Genome Research, Edinburgh, Scotland

10/91-6/97 Postdoctoral Fellow in the lab of Dr. Mark Groudine, Fred Hutchinson Cancer Research Center

6/97-7/04 Assistant Professor, Dept. of Microbiology/Immunology, Dartmouth Medical School

7/01-7/04 Assistant Professor Genetics Department, Dartmouth Medical School

7/04-7/12 Associate Professor, Depts. of Microbiology/Immunology & Genetics, Dartmouth Med School

7/12- present Professor, Depts. Of Microbiology/Immunology and Genetics, Geisel School of Medicine at Dartmouth

Honors / Awards

1992-1995	NRSA postodoctoral fellowship;
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1995-1997	Scholars Award, American Society of Hematology;
1995-2000	Burroughs-Wellcome Career Development Award

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITL	POSITION TITLE		
Hank, Jacquelyn A	Danage F	Research Professor		
eRA COMMONS USER NAME	Research F			
JAHANK				
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)				
INSTITUTION AND LOCATION DEGREE (if applicable) MM/YY FIELD OF STUDY				
University of Wisconsin, Madison	BS	05/74	Med. Microbiology	
University of Wisconsin, Madison	MS	05/76	Med. Microbiology	
University of Wisconsin, Madison	PhD	05/78	Med. Microbiology	

A. Personal Statements

As a UW Research Professor, I have led the efforts to evaluate blood specimens from patients receiving a variety of distinct forms of immunotherapies. These have included cell function, flow cytometry and ELISA assays for clinical trials (UW and cooperative group) testing gene therapies, vaccines, mAbs and cytokines. My experience will be of use to improve the monitoring of neuroblastoma patients receiving ch14.18 antibody and hu14.18-IL2 immunocytokine.

B. Positions and Honors

Positions and	Employ	ment
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1974-78	Predoctoral Trainee, Department of Medical Microbiology, University of Wisconsin-Madison, WI,
	Advisor: DW Smith
1978-80	Postdoctoral Fellow, Department of Immunobiology, University of Wisconsin-Madison, WI,
	Advisor: FH Bach, Project: Cloning of Alloreactive T Cells
1981-84	Project Associate, Cancer Research Institute Fellowship, Department of Human Oncology,
	University of Wisconsin-Madison, WI
1984-87	Assistant Scientist, Department of Human Oncology, University of Wisconsin-Madison, WI
1986-	Member, University of Wisconsin Comprehensive Cancer Center
1987-92	Associate Scientist, Department of Human Oncology, University of Wisconsin-Madison, WI
1992-03	Senior Scientist, Department of Human Oncology, University of Wisconsin-Madison, WI
2003-	Distinguished Scientist, Department of Human Oncology, University of Wisconsin-Madison, WI
2009-	Research Professor, Department of Human Oncology, University of Wisconsin-Madison, WI

C. Selected peer-reviewed publications (in chronological order)

- 1. Sondel PM, Hank JA, Wendel T, Flynn B, Bozdech MJ. HLA identical leukemia cells and T cell growth factor activate cytotoxic T cell recognition of minor locus histocompatibility antigens in vitro. J Clin Invest 71:1779-86, 1983. PMCID: PMC370383
- Sosman JA, Kohler PC, Hank JA, Moore KH, Bechhofer R, Storer B, Sondel PM. Repetitive weekly cycles
 of recombinant human interleukin-2: responses of renal carcinoma with acceptable toxicity. J Natl Cancer
 Inst 80:60-3. 1988.
- Hank JA, Robinson RR, Surfus J, Mueller BM, Reisfeld RA, Cheung NK, Sondel PM. Augmentation of antibody dependent cell mediated cytotoxicity following in vivo therapy with recombinant Interleukin-2. Cancer Res 50:5234-9, 1990.
- 4. Hank JA, Albertini MR, Schiller J, Sondel PM. Activation of multiple effector mechanisms to enhance tumor immunotherapy. J Immunother Emphasis Tumor Immunol 14:329-35, 1993.
- 5. Frost JD, Hank JA, Reaman GH, Frierdich S, Seeger RC, Gan J, Anderson PM, Ettinger LJ, Cairo MS, Blazar BR, Krallo M, Matthay KK, Reisfeld RA, Sondel PM. Phase I/IB trial of murine monoclonal anti-GD2 antibody 14.Ga plus interleukin-2 in children with refractory neuroblastoma: a report of the Children's Cancer Group. Cancer 80:317-33, 1997.
- 6. Hank JA, Surfus J, Gan J, Albertini M, Lindstrom M, Schiller JH, Hotton KM, Khorsand M, Sondel PM. Distinct clinical and laboratory activity of two recombinant interleukin-2 preparations. Clin Cancer Res 5:281-9, 1999.

- 7. Hank JA, Surfus JE, Gan J, Ostendorf A, Gillies SD, Sondel PM. Determination of peak serum levels and immune response to the humanized anti-ganglioside antibody interleukin-2 immunocytokine. Methods Mol Med 85:123-31, 2003.
- King DM, Albertini MR, Schalch H, Hank JA, Gan J, Surfus J, Mahvi D, Schiller JH, Warner T, Kim K, Eickhoff J, Kendra K, Reisfeld R, Gillies SD, Sondel PM. A phase I clinical trial of the immunocytokine EMD 273063 in melanoma patients. J Clin Oncol 22:4463-73, 2004. PMCID: PMC2367368
- Osenga KL, Hank JA, Albertini MR, Gan J, Sternberg AG, Eickhoff J, Seeger RC, Matthay KK, Reynolds CP, Twist C, Krailo M, Adamson PC, Reisfeld RA, Gillies SD, Sondel PM. A phase I clinical trial of the hu14.18-IL2 (EMD 273063) as a treatment for children with refractory or recurrent neuroblastoma and melanoma: a study of the Children's Oncology Group. Clin Cancer Res 12:1750-9, 2006. PMCID: PMC2587020]
- Mahvi DM, Henry MB, Albertini MR, Weber S, Meredith K, Schalch H, Rakhmilevich A, Hank JA, Sondel PM. Intratumoral injection of IL-12 plasmid DNA: results of a phase I/IB clinical trial. Cancer Gene Ther 14:717-23, 2007.
- 11. Cassaday RD, Sondel PM, King DM, Macklin MD, Gan J, Warner TF, Zuleger CL, Bridges AJ, Schalch HG, Kim KM, Hank JA, Mahvi DM, Albertini MR. A phase I study of immunization using particle-mediated epidermal delivery of genes for gp100 and GM-CSF into uninvolved skin of melanoma patients. Clin Cancer Res 13:540-9, 2007.
- 12. Gilman AL, Ozkaynak MF, Matthay KK, Krailo M, Yu AL, Gan J, Sternberg A, Hank JA, Seeger R, Reaman GH, Sondel PM. Phase I study of ch14.18 with granulocyte-macrophage colony-stimulating factor and interleukin-2 in children with neuroblastoma after autologous bone marrow transplantation or stem-cell rescue: a report from the Children's Oncology Group. J Clin Oncol 27:85-91, 2009. PMCID: PMC2645092
- 13. Hank JA, Gan J, Ryu H, Ostendorf A, Stauder MC, Sternberg A, Albertini MR, Lo KM, Gillies SD, Eickhoff J, Sondel PM. Immunogenicity of the Hu14.18-IL2 immunocytokine molecule in adults with melanoma and children with neuroblastoma. Clin Cancer Res 15:5923-30, 2009. PMCID: PMC2745522
- 14. Shusterman S, London WB, Gillies SD, Hank JA, Voss SD, Seeger RC, Reynolds CP, Kimball J, Albertini MR, Wagner B, Gan J, Eickhoff J, DeSantes KB, Cohn SL, Hecht T, Gadbaw B, Reisfeld RA, Maris JM, Sondel PM. Anti-tumor activity of hu14.18-IL2 in relapsed/refractory neuroblastoma patients: a Children's Oncology Group (COG) phase II study. J Clin Oncol, 2010. PMCID: PMC3020698
- 15. Delgado DC, Hank JA, Kolesar J, Lorentzen DF, Gan J, Seo S, Kim K, Shusterman S, Gillies SD, Reisfeld RA, Yang R, Gadbaw B, Desantes KB, London WB, Seeger RC, Maris JM, Sondel PM. Genotypes of NK cell KIR receptors, their ligands, and Fc gamma receptors in the response of neuroblastoma patient to Hu14.18-IL2 immunotherapy. Cancer Res 70:9554-61, 2010. PMCID: PMC2999644

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME RAUSCHER, Frank Joseph, III eRA COMMONS USER NAME FRAUSCHER	POSITION TITLE Professor, Deputy Director, The Wistar Institute Cancer Center		
EDUCATION/TRAINING (Begin with baccalaureate or other initial profes	sional education,	such as nursing, and	d include postdoctoral training.)
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Moravian College, Bethlehem, PA Roswell Park Cancer Institute, SUNY-Buffalo, Dept.	B.S.	05/79	Biology
Pharmacology & Experimental Therapeutics, Buffalo, NY	Ph.D.	05/87	Molecular Pharmacology
Roche Institute of Molecular Biology, Nutley, NJ (Laboratory of Dr. Tom Curran)	Postdoc	05/87-04/90	Molecular Oncogenesis

A. PERSONAL STATEMENT

Our Laboratory focuses on the molecular genetics of human cancer with particular emphasis on the structure-function aspects of tumor suppressor and oncogenic proteins, mechanisms of transcriptional regulation, transcriptional control of cellular differentiation programs, as well as organogenesis and epigenetic control of gene silencing. We use biochemical and structural biology, in addition to genetic and chemical biology approaches to answer fundamental questions about gene regulation and cancer. The targets have included analysis of the FOS and JUN oncogenes, functions of the WT1 gene that, when mutated, causes Wilms' Tumor; BAP1, a gene encoding an enzyme that helps regulate levels of BRCA1 and is involved in the development of breast and lung cancers, and the PAX3-FKHR oncogenic transcription factor which causes rhadomyosarcoma in children. Recently, our laboratory has turned its focus to three mechanisms of tumor progression and metastasis: 1) the SNAIL and SLUG zinc-finger proteins mediate gene silencing required for the early stages of breast tumor progression/metastases involving loss of adhesion, mesenchymal transformation and organ invasion. 2) The BAP1 metastasis suppressor, which is mutated in uveal melanoma and mesothelioma. 3) The TERE1 tumor suppressor gene prostate and bladder cancer and its role in castrate resistant prostate cancer and cholesterol/endogenous androgen production. Our Laboratory's overall goal is to identify and validate new novel targets for cancer therapeutics and prevention.

B. POSITIONS AND HONORS

<u> </u>	
1992-2008	Founder and Chairman, The Gene Expression and Regulation Program, The Wistar Ins
	Cancer Center, Philadelphia, PA
1990-Present	Assistant Associate and Full Professor. The Wistar Institute, Philadelphia, PA

1990-Present Assistant, Associate and Full Professor, The Wistar Institute, Philadelphia, PA 1990-Present Member, University of Pennsylvania, Cell and Molecular Biology Graduate Group,

Philadelphia, PA

1990-Present Adjunct Assistant, Associate, Full Professor of Genetics, University of Pennsylvania School of

stitute

Medicine, Philadelphia, PA

1999-Present Deputy Director, The Wistar Institute Cancer Center, Philadelphia, PA

Selected Honors:

Pew Scholar in the Biomedical Sciences

The Wilson S. Stone Memorial Award, MD Anderson Cancer Center

The David M. Kovitz Visiting Professorship Award, MD Anderson Cancer Center

The William L. McGuire, M.D. Memorial Fellowship, The Susan G. Komen Breast Cancer Foundation

The George Khoury Memorial Lecture, National Institutes of Health

Annual Esther Zoller Breast Cancer Lecture, University of California, San Francisco, CA The Edward Rotan Visiting Professorship, MD Anderson Cancer Center The Annual Elizabeth Weitzenhoffer Blass Lecture in Cancer Genetics, University of Arkansas

Selected Advisory/Peer Review Activities:

2000-2010	Editor-in-Chief, Cancer Research
1996-2002	Member, Integration Panel, DOD Breast Cancer Research Program
1995-1996	Susan G. Komen Breast Cancer Foundation Research, Project Grant
	Selection and Review Committee
1996-2005	Ad hoc member, NIH Study Sections MBY1, CDF-1, CBY-2, GM-B, NCI SEPs
1998-2003	Member, American Cancer Society Study Section: Genetic Mechanisms in Cancer (GMC)
2005-2008	Member, Board of Scientific Councilors-2, (BSC-2), NIH/NCI
2008-2010	Chairperson, Board of Scientific Councilors-2 (BSC-2), NIH/NCI
2008-Present	Member, Grants Working Group, California Institute for Regenerative Medicine (CIRM)

C. PEER-REVIEWED PUBLICATIONS (selected from total of 145)

- Jensen DE, Proctor M, Marquis ST, Perry Gardner H, Ha SI, Chodosh LA, Ishov AM, Tommerup N, Vissing H, Sekido Y, Minna J, Borodovsky A, Schultz DC, Wilkinson KD, Maul GG, Barlev N, Berger SL, Prendergast GC, Rauscher III FJ. 1998. BAP1: a novel ubiquitin hydrolase which binds to the BRCA1 RING finger and enhances BRCA1-mediated cell growth suppression. Oncogene 16:1097-1112. PMID: 9528852.
- 2. Schultz DC, Friedman JR, **Rauscher III FJ**. 2001. Targeting Histone Deacetylase Complexes via KRAB-Zinc Finger Proteins: The PHD and Bromodomains of KAP-1 form a Cooperative Unit that Recruits a Novel Isoform of the Mi-2α Subunit of NuRD. Genes Dev 15:428-443. PMCID: PMC312636.
- 3. Schultz DC, Ayyanathan K, Negorev D, Maul G, Rauscher III FJ. 2002. SETDB1: A Novel KAP-1 Associated histone H3, lysine-9-specific methyltransferase that contributes to HP1-mediated silencing of euchromatic genes by KRAB Zinc Finger Proteins. Genes Dev 16:919-932. PMCID: PMC152359.
- Ayyanathan K, Lechner MS, Bell P, Maul GG, Schultz DC, Yamada Y, Tanaka K, Torigoe K, Rauscher III FJ. 2003. Regulated recruitment of HP1 to a euchromatic gene induces mitotically heritable, epigenetic gene silencing: a mammalian cell culture model of gene variegation. Genes Dev 17:1855-1869. PMCID: PMC196232.
- 5. Ayyanathan K, Peng H, Hou Z, Fredericks WJ, Goyal RK, Langer EM, Longmore GD, Rauscher III FJ. 2007. The AJUBA LIM Domain Protein is a Co-Repressor for SNAG Domain Medicated Repression and Participates in Nucleo-Cytoplasmic Shuttling. Cancer Res 67:9097-9106. PMID: 17909014.
- Ivanov AV, Peng H, Yurchenko V, Yap KL, Negorev DG, Schultz DC, Psulkowski E, Fredericks WJ, White DE, Maul GG, Sadofsky MJ, Zhou MM, Rauscher III, FJ. 2007. PHD Domain-Mediated E3 Ligase Activity Directs Intramolecular Sumoylation of an Adjacent Bromodomain Required for Gene Silencing. Mol Cell 28:823-837. PMID: 18082607.
- 7. Langer EM, Feng Y, Rauscher III FJ, Kroll KL, Longmore GD. 2008. Ajuba LIM proteins are Snail corepressors required for neural crest development in Xenopus. Dev Cell 14:424-436. PMCID: PMC2279146.
- 8. Zeng L, Yap KL, Ivanov AV, Wang X, Mujtaba S, Plonikova O, **Rauscher III FJ**, Zhou MM. 2008. Structural Insights into the Functional Cooperativity of the Tandem PHD Finger-Bromodomain of human KAP1 in Sumoylation-Dependent Gene Silencing. Nat Struct Biol 15:626-633. PMCID: PMC3331790
- 9. Hou Z, Peng H, Ayyanathan K, Yan KP, Langer EM, Longmore GD, Rauscher III FJ. 2008. The LIM protein Ajuba recruits protein arginine methyltransferase 5 (PRMT5) to mediate SNAIL-dependent transcriptional repression. Mol Cell Biol 28:3198-3207. PMCID: PMC2423142.
- 10. Hou Z, Peng H, White DE, Negorev DG, Maul GG, Feng Y, Longmore GD, Waxman S, Zelent A, Rauscher III FJ. 2010. LIM protein Ajuba functions as a nuclear receptor co-repressor and negatively regulates retinoic acid signaling. Proc Natl Acad Sci U S A 107:2938-2943. PMCID: PMC2840334.
- 11. Fredericks WJ, McGarvey T, Wang H, Zheng Y, Fredericks NJ, Yin H, Wang LP, Hsiao W, Lee R, Weiss JS, Nickerson ML, Kruth HS, **Rauscher III FJ**, Malkowicz SB. 2013. The TERE1 (UBIAD1) bladder tumor suppressor protein interacts with mitochondrial TBL2: regulation of trans-membrane potential, oxidative stress and SXR signaling to the nucleus. J Cell Biochem 114:2170-2187. PMID: 23564352. PMC in Process.

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME HEIDE SCHATTEN	POSITION TITLE PROFESSOR
eRA COMMONS USER NAME SCHATTENH	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Heidelberg, Germany	Diploma	1974	Microbiology, Botany
Univ of Heidelberg, School of Music	Masters	1974	Music Edu, Violin
University of California, Berkeley	PredocFellow	1975	Cell&Reproductive Biology
University of Heidelberg, Germany	Ph.D.	1977	Cancer Biology
University of California, Berkeley	Postdoc	1977	Cell Biology

A. Personal Statement

My long-term research interests are focused on cell cycle regulation and on the role of the cytoskeleton during cell cycle progression and on abnormalities in cells affected by disease. My lab's specific interests include centrosomes (microtubule organizing centers; MTOCs), centrosome-microtubule interactions, and molecular abnormalities that play a role in aberrant cancer cell proliferation. We have previously shown that centrosome and cell cycle dysfunctions are implicated in the formation of abnormal mitoses that contribute to genomic instability with consequences for tissue heterogeneity. While working at the German Cancer Research Center in Heidelberg I have extensively studied antimitotic drugs to inhibit cancer cell proliferation including paclitaxel and griseofulvin, an anti-mitotic drug that has recently gained attention for its excellent potential to be developed as novel cancer drug for clinical applications.

I have served on several breast cancer study sections to provide expertise including cytoskeletal, cell cycle and signal transduction associated with cancer cell proliferation. I have entertained close interactions and collaborations with various colleagues at Cancer Research Centers as documented in several of my publications. I have also edited several books related to cancer including a new book titled "The Centrosome: Cell and Molecular Mechanisms of Functions and Dysfunctions in Disease" that has been published by Humana Press (Springer; July 2012) and contains 23 chapters by expert contributors with significant chapters dedicated to dysfunctions in breast cancer. In 2013, I have edited a book on "Cell and Molecular Biology of Breast Cancer" that contains 16 chapters written by experts in their respective area of expertise that has been published by Springer Science and Business Media, LLC. I have further edited a new book titled: "Cell and Molecular Biology and Imaging of Stem Cells" that is currently in production and contains several chapters on breast cancer stem cells and will be published in summer of 2014 by Wiley. I am currently editing a book on "The Cytoskeleton: Cell and Molecular Mechanisms of Functions and Dysfunctions in Disease" that will be published by Springer in 2014 and will include a number of chapters on cytoskeletal dysfunctions in breast cancer.

B. Positions and Honors

Positions and E	<u>Employment</u>
1974-1977	Research Assistant, German Cancer Research Center, Heidelberg, Germany
1977-1981	Research Associate, Florida State University, Tallahassee, Florida
1981-1986	Associate Research Scientist, Adjunct Associate Professor, Florida State Univ, Tallahassee, FL
1984	UNESCO-ICRO Guest Professor, Cell and Devel. Biology, Palermo, Italy
1985/1986	Instructor in Embryology, Marine Biological Laboratories, Woods Hole
1989/1990	Instructor in Cell Biology, Hopkins Marine Station, Pacific Grove
1992	Visiting Scientist and Instructor, Centro de Investigacion DELIPN, Mexico City, Mexico
1992	Visiting Scientist, Inst. Cell Tumorbiol., German Cancer Center, Heidelberg
1993-1994	Research Associate Professor and Director of Electron Microscopy Facility, School of Dentistry,
	Dept. Oral Biology, Univ. of Alabama, Birmingham, AL
1986-1996	Senior Scientist in Cell Biology, Univ. Wisconsin-Madison, Madison, Wisconsin
1994-1996	Adjunct Assoc. Professor, Dept. Cell and Structural Biol. Univ. of Illinois at Urbana-Champaign

Principal Investigator/Program Director (Last, First, Middle): SCHATTEN, HEIDE

and Director, Center for Electron Microscopy

1996-1999 Assoc. Professor, Dept. Vet. Pathobiology and Director of Electron Microscopy Core Facility,

Univ. Missouri-Columbia, Columbia, Missouri

1996-2008 Associate Professor, Dept. Vet. Pathobiology, Univ. Missouri-Columbia 2008-present Professor, Department of Veterinary Pathobiology, Univ. Missouri-Columbia

Other Experience and Professional Membership, Honors and Awards

1993-1999; 2005-2007; 2010-2013 Member, Special NIH Study Sections on Shared Instrumentation

1994, 1998, 2001; 2009-2011 Member, Special NIH Study Sections on Small Business

1999-2002; 2005-2006 Member, NSF Study Sections on Instrumentation

2001-2010 Komen Breast Cancer Research Foundation Study Sections

2008-2011; 2012-2013 DOD Breast Cancer Research Study Sections

1986-1999 NASA Grant Awards

1996 Experimentation on Space Shuttle Endeavor

1998-2001 Cancer Research Center Support 1999-2001 NSF Award for Instrumentation

2000-present Editor for Biological Applications, *Microscopy and Microanalysis*

2003-present Editor, Reproductive Biology and Endocrinology

2001 DAAD- Visiting Scientist, Dept. Anaesthes. Humboldt Univ. Berlin

2003-2009 NIH grant awards

1979-present American Society for Cell Biology (ASCB) 1982-present Microscopy Society of America (MSA)

1989-present American Society for the Advancement of Science (AAAS)
2007-2009 Director on Council, Microscopy Society of America

2011-present Editorial Board, Journal of Reproductive and Stem Cell Biotechnology

2011-present Editorial Board, Scientifica (Cell Biology)
2012-present Editor, BioMed Research International
2014-present Associate Editor, Human Reproduction

C. Selected book chapters and peer-reviewed publications (selected from 220 publications)

Schatten, H. (2014). The role of centrosomes in cancer stem cell functions. In: Cell and Molecular Biology and Imaging of Stem Cells. Edited by **Heide Schatten**, published by Wiley (in production; publication date: 2014)

Schatten, H. (2013). The impact of centrosome abnormalities on breast cancer development and progression with a focus on targeting centrosomes for breast cancer therapy. In: Cell and Molecular Biology of Breast Cancer. Edited by Heide Schatten, published by Springer Science and Business Media, LLC.

Kazmierczak, R.A., Dino, A., Eisenstark, A., and **Schatten, H.** (2013). New breast cancer treatment considerations: a brief review of the use of genetically modified (attenuated) bacteria as therapy for advanced and metastatic breast cancer. In: Cell and Molecular Biology of Breast Cancer. Edited by Heide Schatten, published by Springer Science and Business Media, LLC.

Miao, Y-L., Zhang, X., Zhao, J-G., Spate, L., Zhao, M-T., Murphy, C.N., Prather, R.S., Sun, Q-Y., and **Schatten,** H. (2012). Effects of griseofulvin on *in vitro* porcine oocyte maturation and embryo development. Environ Mol Mutagen. 53(7):561-6. doi: 10.1002/em.21717.

Schatten, H., and Sun, Q-Y. (2011). The significant role of centrosomes in stem cell division and differentiation. Microsc Microanal. 17(4):506-512. Epub 2011 Jul 11.

Lin, S-L., Yan, L-Y., Liang, X-W., Wang, Z-B., Wang, Z-Y., Qiao, J., **Schatten, H.,** and Sun, Q-Y. (2009). A novel variant of ER- α, ER-α36 mediates testosterone-stimulated ERK and Akt activation in endometrial cancer Hec1A cells. Reprod. Biol. Endocrinol. 7:102. doi:10.1186/1477-7827-7-102.

Bukovsky, A., Aplin, J.D., Carson, R.J., Gaytán, F., Huleihel, M., Kruse, A., **Schatten, H.**, and Telleria, C.M. (2009). Immune physiology in tissue regeneration and aging, tumor growth, and regenerative medicine. Aging Vol. 1(2), 157-181.

Schatten, H. (2008). The mammalian centrosome and its functional significance. Histo. Cell Biol. 129:667-686.

Gobert, G.N., Hueser, C.N., Curran, E., Sun, Q-Y, Glinsky, V. V., Welshons, W., Eisenstark, A., and **Schatten, H.** (2001). Immunolocalization of NuMA and phosphorylated proteins during the cell cycle in human breast and

BIOGRAPHICAL SKETCH			
NAME Schiffman, Joshua D.		POSITION TITLE Associate Professor	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
Brown University, Providence, RI	BS	1996	Psychology and Biology
Brown University, Providence, RI	MD	2000	Medicine
Stanford University, Palo Alto, CA	Internship	2001	Pediatrics
Stanford University, Palo Alto, CA	Residency	2003	Pediatrics
Stanford University, Palo Alto, CA	Chief Resident	2004	Pediatrics
Stanford University, Palo Alto, CA	Fellowship	2007	Pediatric Hematology and Oncology
University of Utah, Salt Lake City, UT	MS	2010	Clinical Investigation

A. Personal Statement

I am a pediatric hematologist-oncologist with a clinical and research interest in the genomics of cancer and inherited cancer syndromes. Since arriving at the University of Utah in 2008, I have served as the Medical Director for the High Risk Pediatric Cancer Clinic at Huntsman Cancer Institute (HCI), where we evaluate children and families at high risk for cancer based on their personal and family medical histories. In addition, I run an independent translational genomics laboratory as a physician-scientist at HCl and have been actively involved in the research and discovery of genes related to familial cancers. The focus of my translational research is cancer susceptibility in families, with an emphasis on the genomic changes necessary for cancer development. Our lab is now pursuing copy number changes related to tumor development and functional assays related to risk of hereditary cancers. We also work closely with the Utah Population Database (UPDB) to understand both the medical and genetic risk factors associated with cancer development in children and their families. I serve as Education Director for the Program in Personalized Health Care, where I oversee the graduate and faculty seminars on applying personalized medicine to patient care. Using these resources, we recently discovered a genomic signature in Ewing sarcoma based on copy number alterations that predicts poor clinical outcome, and we're now pursuing further analysis of these candidate genes found within the copy number signature. All of these activities demonstrate my involvement in the genomics of cancer control and prevention, and highlight my research experience in the clinical and translational field of cancer genetics. I am dedicated to utilizing novel approaches and technologies to improve the value of healthcare delivered to patients at high risk for cancer development. This is especially important in the field of hereditary cancer and genomic medicine.

B. Positions and Honors

Positions and Employment

FUSILIUIIS and	<u>a Employment</u>
2007-2008	Instructor, Stanford University, Division of Pediatric Hematology/Oncology, Stanford, CA
2007-2008	Co-Director, Pediatric Cancer Genetics Clinic (PCGC), Division of Pediatric
	Hematology/Oncology, Lucile Packard Children's Hospital, Stanford University, Stanford, CA
2008-2009	Visiting Instructor, Division of Pediatric Hematology/Oncology, Department of Pediatrics,
	University of Utah, Salt Lake City, UT
2008-present	Medical Director, High Risk Pediatric Cancer Clinic, Huntsman Cancer Institute, University of
•	Utah, Salt Lake City, UT
2008-present	Member, Cancer Control & Population Sciences, Cancer Center Support Grant, Huntsman
•	Cancer Institute, University of Utah, Salt Lake City, UT
2008-present	Investigator, Huntsman Cancer Institute, University of Utah, Salt Lake City, UT
2009-2012	Assistant Professor, Division of Pediatric Hematology/Oncology, Department of Pediatrics,
	University of Utah, Salt Lake City, UT
2009-2012	Adjunct Assistant Professor, Department of Oncological Sciences, University of Utah, Salt Lake
	City, UT
2012-2013	Interim Director, Translational Oncology Core, Huntsman Cancer Institute, University of Utah,
	Salt Lake City, UT
2012-	Associate Professor, Division of Pediatric Hematology/Oncology, Department of Pediatrics,
	University of Utah, Salt Lake City, UT

2012- Adjunct Associate Professor, Department of Oncological Sciences, University of Utah, Salt Lake

City, UT

2012- Education Director, Program in Personalized Health Care, University of Utah, Salt Lake City, UT

Dean's Postdoctoral Fellowship Grant Stanford University CA

Other Experience and Professional Memberships

American Association for Cancer Research

American Society of Clinical Oncology

American Society of Hematology

American Society of Pediatric Hematology/Oncology

Children's Oncology Group Society for Pediatric Research

American Society of Human Genetics

Honors	
2005	•

2005	Dean's Postdoctoral Fellowship Grant, Stanford University, CA
2006	Fellow's Clinical Research Award, Society for Pediatric Research, Pediatric Academic
	Societies' Annual Meeting, San Francisco, CA
2006	The Walter V. and Idun Berry Fellowship Grant – Stanford University, CA
2007	The AACR-Aflac Scholar-in-Training Award, AACR Annual Meeting, San Diego, CA
2007	The Japanese Pediatric Society and Pediatric Academic Societies Fellow Exchange
	Award, Japanese Pediatric Society Annual Meeting, Kyoto, Japan
2008	Pediatric Research Fund-Children's Health Research Program Award for Early Career
	Investigators, Lucile Packard Foundation for Children's Health, Palo Alto, CA
2008	ASH Scholar Award (Clinical/Translational Research Fellow), American Society of
	Hematology Scholarship Foundation, Washington D.C
2008	Clinical-Translational Research Career Development Award in Pediatric Cancer, The
	Harriet H. Samuelsson Foundation, Oxnard, CA
2008	Hyundai Scholar Award – Hyundai Hope on Wheels Program, Fountain Valley, CA
2008	CureSearch Research Fellowship Award – Children's Oncology Group (COG), Bethesda, MD
2008	Primary Children's Medical Center (PCMC) Foundation/Pediatrics Innovative Research
	C Foundation, Salt Lake City, UT
2009	Pediatric Clinical and Translational (PCAT) Research Scholar, Department of Pediatrics,
	University of Utah, Salt Lake City, UT
2010	SARC Career Development Award - Sarcoma Alliance for Research through Collaboration, Ann
	Arbor, MI
2011	Children's Health Research Career Development Award (CHRCDA), Department of Pediatrics,
	University of Utah, Salt Lake City, UT
2011	Damon Runyon Cancer Foundation Clinical Investigator Award
2013	Wyss Family Visiting Professor in Pediatric Neuro-Oncology, Children's Hospital of Los Angeles,
	Los Angeles, CA
2013	Edward B. Clark, MD Endowed Chair in Pediatric Research, Department of Pediatrics,
	University of Utah, Salt Lake City, Utah
	•

C. Selected Peer-Reviewed Publications (from over 60)

- Schiffman JD, Chun N, Fisher PG, Dahl GV, Ford JM, Eggerding FA. Identification of a novel p53 in-frame deletion in a Li-Fraumeni-like family. *Pediatr Blood Cancer*. 2008 Apr;50(4):914-916. doi: 10.1002/pbc.21247.
- 2. Hao HX, Khalimonchuk O, Schraders M, Dephoure N, Bayley JP, Kunst H, Devilee P, Cremers CW, Schiffman JD, Bentz BG, Gygi SP, Winge DR, Kremer H, Rutter J. SDH5, a gene required for flavination of succinate dehydrogenase, is mutated in paraganglioma. *Science*. 2009 Aug 28;325(5944):1139-1142. doi: 10.1126/science.1175689.
- 3. Schiffman JD, Wang Y, McPherson LA, Welch K, Zhang N, Davis R, Lacayo NJ, Dahl GV, Faham M, Ford JM, Ji HP. Molecular inversion probes reveal patterns of 9p21 deletion and copy number aberrations in childhood leukemia. Cancer Genet Cytogenet. 2009 Aug;193(1):9-18. doi: 10.1016/j.cancergencyto.2009.03.005 PMCID: PMC2776674.

Provide the following information for the key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Williams, Bart O.	Associate F	POSITION TITLE Associate Professor and Director, VARI Center for Skeletal Disease Research	
eRA COMMONS USER NAME BARTWILLIAMS	Skeletal Dis		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Carroll College, Waukesha, WI	B.S.	1991	Biology & Chemistry
MIT Center for Cancer Res., Cambridge, MA	Ph.D.	1996	Biology
National Cancer Institute, Bethesda, MD	Postdoctoral	1996-1999	Cancer Genetics /
	Fellow		Cell Biology

Personal Statement

My laboratory focuses on the generation and characterization of genetically engineered mouse models (GEMMs) to study the role of the Wnt signaling pathway in human disease. Our specific focus is the use of GEMMs to acquire insights into the mechanisms that underlie primary bone diseases such as osteoporosis and osteoarthritis and well as skeletal metastasis from breast and prostate tumors.

Pos	sitio	ns:

1991-1996	Graduate student – Dept. of Biology and Center for Cancer Research, MIT, Cambridge, MA
1996-1999	Damon Runyon-Walter Winchell postdoctoral fellow – NCI, NIH, Bethesda, MD
1999-2006	Scientific Investigator – Lab. of Cell Signaling and Carcinogenesis, Van Andel Research Institute,
	Grand Rapids, MI
2006-2103	Senior Scientific Investigator (Associate Professor) – Lab. of Cell Signaling and Carcinogenesis,
	Van Andel Research Institute, Grand Rapids, MI
2009-Date	Director, Center for Skeletal Disease and Tumor Metastasis, Van Andel Research Institute, Grand
	Rapids, MI
2013-Date	Professor, Van Andel Research Institute, Grand Rapids, MI

Honors:

1989	Undergraduate Research Grant Award, National Science Foundation
1990	Delta Sigma Nu Scholastic Honor Society
1990-1991	USA Today's All-USA Academic Third Team
1991	Outstanding Senior Biology Student, Carroll College
1996	Young Investigator Travel Grand Award, AACR Meeting, Lausanne, Switzerland
1996-1999	Postdoctoral Fellowship Award, Damon Runyon-Walter Winchell Cancer Center Fund
2004	Most Outstanding Abstract Award, ASBMR Annual Meeting

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. DO NOT EXCEED FOUR PAGES.

eRA COMMONS USER NAME yuchungyang	POSITION Professor	TITLE	
EDUCATION/TRAINING	DEODEE	DANA DOZ	FIELD OF OTLIDY
INSTITUTION AND LOCATION	DEGREE	MM/YY	FIELD OF STUDY
National Taiwan University, Taipei, Taiwan	BS	1975	Botany
National Taiwan University, Taipei, Taiwan	MS	1977	Biomedical Sciences
Northwestern University, Chicago, IL	PhD	1981	Microbiology- Immunology
NCI, NIH, Bethesda, MD	Postdoc	1984	Virology
, ,			

A. Personal Statement

My laboratory cloned Cited2 [CBP/p300-interacting transactivators with glutamic acid (E) and aspartic acid (D)-rich tail 2] as a cytokine inducible gene, generated total and conditional Cited2 knockout mice and characterized defects in different organs from embryonic or adult Cited2 knockout mice. We showed that Cited2 plays an important role in controlling quiescence of hematopoietic stem cells (HSCs) and this function is in part mediated through Hypoxia Inducible Factor (HIF)-1. We performed microarray analysis using long-term HSCs (LT-HSCs) isolated from wild type (WT) and Cited2 KO mice and identified several mitochondria related genes that are over-represented in both upregulated and downregulated gene pools affected by Cited2. We recently performed global metabolomic analysis using LT-HSCs isolated from WT and Cited2 KO mice, using highly sensitive GC/MS technology available at Metabolon and identified two major metabolic differences between WT and Cited2 KO HSCs: (1) branched-chain amino acid/Fatty acid (BCAA/FA) metabolism and (2) ROS. This RO1 intends to focus on BCAA/FA oxidation, which is under-explored mechanistically in HSCs.

I am currently a faculty in the Department of Biochemistry at Case, which has a long-standing tradition of studying metabolism with the past giants such as Dr. Harland Wood (discovered CO2 fixation), Dr. Merton Utter [discovered pyruvate carboxylase and P-enolpyruvate carboxykinase (PEPCK)] and "Maestro of Metabolism" (by ASBMB), Dr. Richard Hanson (studied PEPCK "Mighty Mouse" and passed away on 02/28/2014). It is my intention that the current application will continue the rich history of studying metabolism in the Department. My research will benefit tremendously in collaboration with Dr. Chuck Hoppel through this application. Dr. Hoppel is an expert in fatty acid metabolism and mitochondrial diseases. Dr. Hoppel and I started our collaboration last year and published a JBC paper on how mouse ESCs balance energy demands and metabolism (glycolysis and oxidative phosphorylation) for cell fate decision. The current application represents a new direction for both Co-Pis: HSC biology is new to Dr. Hoppel and FA/BCAA is new for Dr. Yang. Our study in which we propose to study the role of Cited2/PML/PPAR in lipid and amino acid metabolism and HSC quiescence therefore explores an under-chartered area of research in hematopoiesis and has high significance in our basic understanding of HSC biology with translational potential in regenerative medicine and in treating blood diseases in general.

B. Positions and Honors

Academic and Professional Experience:

1984-1985	Visiting Associate, Laboratory of Tumor Virus Biology, NCI, NIH, Bethesda, MD
1985-1987	Staff Scientist, Genetics Institute, Cambridge, MA

1987-1989	Principal Scientist, Genetics Institute, Cambridge, MA
1989-1993	Associate Professor of Medicine and Biochemistry/Molecular Biology, Indiana University
	School of Medicine
1993-2000	Professor of Medicine and Biochemistry/Molecular Biology, Indiana University School of
	Medicine
2000-2007	Professor of Pharmacology, Case Western Reserve University School of Medicine
2008-present	Professor of Biochemistry, Case Western Reserve University School of Medicine

Honors:

Leukemia Society of America Scholar Award (1991-1996)

Leukemia Society of America Stohlman Memorial Scholar Award (1995-1996)

Member of NIH Hematology-I Study Section (1993-1997); Hematopoiesis Study Section (2004-2008);

NCI-F Manpower & Training Grants K99 and T32 (2011-2015)

Editorial Board of Experimental Hematology (1994-1996)

Editorial Board of Leukemia (1996-1998)

Editorial Board of Blood (1998-2003)

Editorial Board of JBC (2010-2015)

Isador Jacob Goodman-Ruth Goodman Blum Professor in Cancer Research (2000-present)

Patents:

U.S. 4,877,729: "Therapeutic uses of IL-3". Inventors: S.C. Clark, A.B. Ciarletta and Y-C. Yang.

U.S. 5,414,071: "Human cytokine Interleukin-9", Inventors: Y-C. Yang, A.B. Ciarletta, S. Ricciardi and

S.C. Clark.

U.S. 5,371,193: "Mammalian cytokine, IL-11", Inventors: F. Bennett, S. Paul and Y-C. Yang.

Journal Reviewer:

Journal of Immunology

Blood

Experimental Hematology

Leukemia

Oncogene

Journal of Clinical Investigation

Stem Cells

Biochimica et Biophysica Acta

Journal of Laboratory and Clinical Medicine

Cytokine

Journal of Leukocyte Biology

Journal of Biological Chemistry

American Journal of Pathology

Clinical Cancer Research

Gastroenterology

Circulation Research

Journal of Cellular Biochemistry

PLoS ONE

Grant Reviewer:

Ad Hoc for NIH Hematology-I Study Section (1992-1993 and 06/1998)

NIH Study Section of the Special Emphasis Panel-K series review (03/1994 and 11/1994)

NIH Small Business Innovative Research Special Study Section (07/1994 and 11/2003)

External reviewer for Department of Veterans Affairs (04/1994, 04/1998 and 07/2007)

Member of NIH Hematology-I Study Section (1993-1997)

Ad Hoc for NIH Hematopoiesis Study Section (02/2004)

Member of NIH Hematopoiesis Study Section (2004-2008)

Site visit team for Laboratory of Experimental Immunology, NCI (11/1996)

External reviewer for Nebraska State Initiative Grants (01/1998)

External reviewer for National Central University (Taiwan) faculty promotion (11/1998)

External reviewer for Department of Defense on breast cancer research (08/1999. 08/2000, 08/2001, 08/2002, 06/2003, 06/2009, 01/2010, 06/2010. 07/2010)

External reviewer for The Wellcome Trust in UK (09/1999)

Advisory Committee for the "National Science and Technology Program in Pharmaceuticals and Biotechnology", National Health Research Institutes, Taiwan (10/1999, 06/2000, 11/2001, 11/2002 and 08/2004)

External reviewer for Department of Defense on ovarian cancer research (12/1999, 11/2000, 10/2001 and 04/2006)

External reviewer for Department of Defense on prostate cancer research (07/2000, 08/2002, 04/2003, 06/2006, 04/2010, 07/2011)

National Research Program for Genomic Medicine, National Science Council, Taiwan (03/2002 and 01/2005)

Reviewer for American Cancer Society (Cuyahoga County Office) (2002-2007)

Center Development Grant Review Panel for NHRI in Taiwan (09/2002 and 08/2004)

Reviewer for Department of Defense Multidisciplinary Postdoctoral Award (03/2007)

NCI-F Manpower & Training Grants K99 and T32 (09/2008, 10/2009, 09/2010 and 06/2011-06/2015)

New York State Department of Health and the Empire State Stem Cell Board: Cell Cycle and Signalling panel (10/2008; 11/2009); Hematopoiesis (02/2012)

NIH AED SEP (02/2009)

NIH Hematopoietic Niche RFA (04/2009)

NIH T32 SEP (10/2009)

Fight for Sight grant review (01/2011)

Member of NIH NCI-I Career Development Subcommittee (2012-2015)

Member of Cancer Prevention Research Institute of Texas (CPRIT) Basic Cancer Research Scientific Peer Review Panel (2014-2017)

C. Selected Peer-reviewed Publications (<u>selected from 109 peer-reviewed publications and 22</u> chapters/reviews)

Yin, Z., Haynie, J., Yang, X., Han, B., Kiatchoosakun, S., Restivo, J., Yuan, S., Prabhakar, N.R., Herrup, K., Conlon, R.A. Hoit, B.D., Watanabe, M., and <u>Yang, Y-C</u>.: Essential role of Cited2, a negative regulator for HIF-1 α , in heart development and neurulation. Proc. Natl. Acad. Sci., USA, 99: 10488-10493,2002.

Chou, Y-T., Wang, H., Chen, Y., Danielpour, D., and <u>Yang, Y-C.</u>: Cited2 modulates TGF-b mediated upregulation of MMP9. Oncogene, 25, 5547-60, 2006. Featured article for the issue.

Chou, Y-T., and <u>Yang, Y-C</u>.: Posttranscriptional control of Cited2 by TGF-b: regulation via Smads and Cited2 coding region. J. Biol. Chem. 281:18451-62, 2006.

Xu, B., Doughman, Y-Q., Turakhia, M., Jiang, W., Landsettle, C., Agani, F., Semenza, G.L., Watanabe, M., and <u>Yang, Y-C</u>. Partial rescue of defects in Cited2-deficient embryos by HIF-1a heterozygosity Dev. Biol. 301: 130-40, 2007.

Chen, Y., Haviernik P., Bunting, K.D., and <u>Yang, Y-C</u>.: Cited2 is required for normal hematopoiesis in the murine fetal liver. Blood, 110: 2889-98, 2007. Editorial on the article in the same issue.

Basic Cancer Research Panel 2 Carol Prives, Ph.D., Chair

Peer Review Panel Members for Approval

- 1. Nabeel Bardeesy, Ph.D.
- 2. Xinbin Chen, Ph.D., D.V.M.
- 3. James Manfredi, Ph.D.
- 4. Jeffrey Wrana, Ph.D.

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TIT			
Nabeel Bardeesy, PhD		Associate Professor of Medicine,		
eRA COMMONS USER NAME (credential, e.g., agency login)		Harvard Medical School; Associate Geneticist,		
NBARDEESY	iviassachus	Massachusetts General Hospital Cancer Center		
EDUCATION/TRAINING (Begin with baccalaureate or other initial puresidency if applicable.)	rofessional education,	, such as nursing, inc	clude postdoctoral training and	
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY	
McGill University, Montreal PQ, Canada	BSc	1991	Biochemistry	
McGill University, Montreal PQ, Canada	PhD	1998	Biochemistry	
Dana-Farber Cancer Inst., Harvard Medical School, Boston	Post-doc	1999-2005	Medical Oncology	

A. Personal Statement

The goals of my laboratory are to understand the molecular pathways underlying the pathogenesis of gastrointestinal malignancies, primarily pancreatic ductal adenocarcinomas and cholangiocarcinomas. Our studies focus on the convergence of cell metabolism and epigenetics in control overriding cellular differentiation programs and in enabling survival under cell stress states. Previously, my laboratory has generated a series of genetically engineered mouse models of gastrointestinal cancer, and used these models to study the key pathways driving tumorigenesis and controlling energy sensing. We elucidated the genetic interactions between oncogenic KRAS signaling and mutations in key tumor suppressors in pancreatic cancer progression. In additional work, we explored the link between the Lkb1 tumor suppressor and cell metabolism and tumorigenesis in multiple tissues. We have also uncovered key functions for the Mst1/Mst2 kinases and the mammalian Hippo pathway in organ size control, stem cell homeostasis and tumorigenesis. A major current focus is in understanding the mechanisms of cholangiocarcinoma development with a focus on the roles of IDH mutations in epigenetic and metabolic reprogramming in these cancers.

B. Positions and Honors

2012

Positions and E	<u>Employment</u>
9/1/91-9/1/98	PhD student, McGill University
1/1/99-1/31/02	Postdoctoral Fellow, Dana-Farbe

er Cancer Institute, Harvard Medical School,

Supervisor: Ron DePinho

2/1/02-3/31/05 Instructor in Medicine, Dana-Farber Cancer Institute, Harvard Medical School,

Assistant Geneticist, Massachusetts General Hospital Cancer Center 4/1/05-4/1/12

Assistant Professor of Medicine, Harvard Medical School

Associate Geneticist, Massachusetts General Hospital Cancer Center 4/1/12-present

Gallagher Endowed Chair in Gastrointestinal Cancer Research

	Associate Professor of Medicine, Harvard Medical School
Honors	
1993-98	Medical Research Council of Canada Graduate Fellowship
1999	Natural Sciences & Engineering Research Council Postdoctoral Award
2000-02	American Cancer Society Fellowship: J.P Hoffman Award for Studies in Pancreatic Cancer
2003-04	Lustgarten Foundation Award for Pancreatic Cancer Research
2004-08	Forbeck Scholar Award
2005-10	NCI K01 Howard Temin Award
2008-09	Kimmel Scholar Award
2008-09	AACR PanCAN Award
2011	Harvard Medical School, Young Mentor Award
	and the contract of the contra

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Chen, Xinbin	
eRA COMMONS USER NAME	Professor of Comparative Oncology
CHENXIN	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Anhui Agricultural University, China	B.S. (D.V.M.)	1982	Veterinary Medicine
Nanjing Agricultural University, China	M.S.	1985	Microbiology
Michigan State University, MI	Graduate Student	1985-1987	Animal Sciences
Michigan State University, MI	Ph.D.	1991	Microbiology

A. Personal Statement

For more than 20 years, my laboratory and I have worked on how p53 functions as a tumor suppressor. We have made a number of novel observations in delineating (1) how p53 functions as a sequence-specific transcription factor; (2) how p53 levels, functional domains and DNA damage determine the extent of the apoptotic response of tumor cells; (3) how p53 expression and activity are controlled in response to stress signals. In addition, we identified and characterized more than twenty target genes that mediate p53-dependent pro-survival and pro-death activities. Among these is RNPC1, also called Rbm38, which encodes a RNA-binding protein. Interestingly, we found that RNPC1 directly binds to p21 transcript and enhances p21 mRNA stability. Furthermore, we found that RNPC1 binds to p53 transcript and suppresses p53 mRNA translation. Thus, we identified p53-RNPC1 as a novel feedback loop in the p53 pathway.

B. Positions and Honors

Postdoctoral Training

1981 - 1982: **Intern in Large Animal Veterinary Medicine**, Linbi County Veterinary Clinical Center,

Anhui, China

1992 - 1996: **Postdoctoral Fellow** at Dr. Prives Laboratory, Columbia University, New York

Academic Appointment

1996 to 2001: **Assistant Professor (1996-2001)**

Associate Professor (2001) Medical College of Georgia, Augusta, Georgia

2001 to 2007: **Associate Professor (2001-2004)**

Professor (2004-2007) Departments of Cell Biology, University of Alabama at Birmingham **Co-Director (2003-2007)**, Tumor Biology Program, UAB Comprehensive Cancer Center

March 2007 - **Professor,** Department of Surgical and Radiological Sciences, School of Veterinary

Medicine; Department of Internal Medicine, School of Medicine, UC Davis **Director**, Comparative Cancer Center, UC Davis School of Veterinary Medicine **Director**, Veterinary Oncology Program, UC Davis School of Veterinary Medicine **Co-Leader**, Comparative Oncology Program at UC Davis Comprehensive Cancer Center

Honors and Awards

- 1. World Bank Graduate Student Fellowship, 1985 1987
- 2. American Cancer Society Postdoctoral Fellowship (declined), 1994
- 3. Department of Defense Breast Cancer Research Program Postdoctoral Fellowship, 1994 1997
- 4. DOD Breast Cancer Research Program Career Development Award, 1997 2001
- 5. Distinguished Teaching Award, School of Graduate Studies, Medical College of Georgia, 2000

Principal Investigator: Chen, X. Ph.D.

6. Pfizer Distinguished Award for Research Excellence, School of Veterinary Medicine, UC Davis, 2010

Major Professional Activities

- 1. Scientific Editor, PLoS ONE, 2013 2015
- 2. Editor, BMC Molecular Biology, 2010 2014
- 3. Board Member, College of CSR Reviewers, National Institutes of Health, 2010 2012
- 4. Editorial Board Member, Journal of Biological Chemistry, 2007 2012
- 5. Editorial Board Member, Cancer Biology and Therapy, 2006 present
- 6. Ad hoc reviewer for Mol. Cell. Biol., Science, Mol. Cell, Nature Genetics, Nature Cell Biology, Genes & Dev., EMBO J, EMBO Report, Oncogene, Cancer Res., Clinical Cancer Res., Mol. Cancer Res., NAR, J. Cell Science, Mol. Biol. Cell., J. Exp. Med., TIBS, J. Mol. Biol., Carcinogenesis, Mol. Carcinogenesis, Apoptosis, Cell Death and Differentiation, J. Virol., J. Cell. Biochem., Cell. Mol. Life Science, FASEB J., and J. Medical Genetics.

NIH Study Sections and Other Review Committees (selected since 2001)

- NIH study sections ad hoc member: MONC (June 2013, Oct. 2012, Feb. 2011, June 2010, October 2009, June 2009, Jan. 2009, Sept. 2008); CE (Oct. 2011, Feb. 2009, Feb. 2008); BMCT (Dec. 2013, May 2012, Feb. 2012, June 2011, Jan. 2007); CAMP (Jan. 2010); MG-B (Sept. 2011); CPA (June, 2001, Oct. 2001, Feb. 2002, June 2002, Oct. 2002, Jan. 2003, June 2003)
- 2. NIH Cancer Etiology study section chartered member (Oct. 2003, Feb 2004, June 2004, Oct. 2004, Feb. 2005, June 2005, Oct. 2005, Feb. 2006, June 2006, Oct. 2006, Feb. 2007, June 2007)
- 3. NCI Special Panel (Nov. 2012, March 2013)
- 4. NIH/NCI PO1 program ad hoc member: Molecular Oncology study section (Oct. 2003, May 2004, Feb. 2005, June 2005, Oct. 2009, March 2010, Jan. 2011); Translational Oncology study section (Oct. 2004, Feb. 2005, Oct. 2005, Jan. 2006, Oct. 2009)
- 5. NIH Special Emphasis Panels ad hoc member: OBT-1 R15 (Sept. 2011), ZRG1 OBT-A (02) S (June 2011), MONC (Nov. 2010), TPM (Nov. 2003, Dec. 2009); Challenge grants (July 2009); CAMP (July 2009); Path B (June 2002, Oct. 2002, Nov. 2002, Feb. 2003, March 2003, July 2003, Nov. 2003); CPA (April 2003); AIDS and Related Research (July 2007)
- 6. Howard Hughes Medical Institute Fellowship Program chartered member, 2012-2014
- 7. DOD Breast Cancer Research Program ad hoc member, MBG1/3 (2001-2004, 2006-2008); Idea #1 (2008); Cell Biology Concept (2006-2009); Pathobiology (2004, 2005)
- 8. DOD Prostate Cancer Research Program ad hoc member, MBG or Cell Biology (2008-2012); Cancer Therapeutics (2004); Exploration/Hypothesis Development (2006)
- 9. National Science Foundation ad hoc member, April 2008
- 10. Florida Biomedical Research Program Ad hoc reviewer, 2007-2012
- 11. Louisiana State University System Board of Regents Seed Grants Ad hoc reviewer 2009
- 12. Taiwan National Science Council Ad hoc reviewer, 2012
- 13. Australia National Health and Medical Research Council Assessor, May 2009
- 14. United Kingdom Cancer Research Campaign ad hoc member, Nov. 2008
- 15. American Federation for Aging Research, National Scientific Advisory Council, 2003, 2004, 2009
- 16. Philip Morris External Research Program Advisory Committee, 2003, 2004, 2007
- 17. Singapore National Science Foundation ad hoc member, April 2006

C. Publications relevant to the current application (selected from ~130 Peer-Reviewed Publications)

- 1. Zhang M, Zhang J, Chen X, Cho SJ, Chen X. 2013. Glycogen synthase kinase 3 promotes p53 mRNA translation via phosphorylation of RNPC1. *Genes & Dev.* 27: 2246-2258.
- 2. Zhang Y, Yan W, Jung YS, Chen X. 2013. P63 regulates tubular formation via epithelial-to-mesenchymal transition. *Oncogene*, PMID: 23542170.
- 3. Cho SJ, Zhang J, Rossi A, Liu G, Zhang J, **Chen X**. 2013. Ninjurin1, a target of p53, regulates p53 expression and p53-dependent cell proliferation, premature senescence and radiation-induced mortality in vitro and in vivo. *Proc Natl Acad Sci.*, 110(23):9362-7. PMID: 23690620.

Provide the following information for the key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Manfredi, James, John	Professor of	POSITION TITLE Professor of Oncological Sciences		
eRA COMMONS USER NAME jamesjmanfredi			e)	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)				
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY	
Cornell University, Ithaca, NY	A.B.	1978	Biochemistry	
Albert Einstein College of Medicine, Bronx, NY	M.S.	1981	Molecular Pharmacology	
	Ph.D	1983	Molecular Pharmacology	
Harvard University, Cambridge, MA	Post-doc	1983-1986	Cell Biology	

A. Personal Statement

Columbia University, New York, NY

My research interests have focused on the role of the tumor suppressor p53 and its pathway in mediating cellular responses to genotoxic stress with the goal of translating these findings into ways that can improve the efficacy of cancer therapy. p53 is know to mediate two predominant cellular responses, cell cycle arrest and apoptosis, but the molecular basis for this cell fate determination has remained elusive. The focus of the laboratory is in three main areas.

Post-doc

1986-1989

Molecular Biology

First, studies are focused on testing the hypothesis that an interplay between p53-independent effectors and p53-dependent gene expression may be the crucial determinant for cellular outcome. The optimal therapeutic response to DNA damage caused by many chemotherapeutic agents is cell death rather than inhibition of cell cycle progression. Elucidating the molecular mechanisms that are responsible for regulating the ability of p53 to trigger apoptosis versus arrest may lead to more effective therapeutic intervention and a way to overcome the chemotherapeutic-resistant phenotype found in many tumors.

Second, studies in the laboratory are addressing the role of p53 in mediating cell cycle arrest. The checkpoint in the G1 phase has been shown to be strictly p53-dependent. Due to the existence of a G2/M checkpoint that occurs in its absence, the precise role of p53 in preventing mitotic entry has been elusive. The significance of this research relates to the clinical implications of selective targeting of tumor cells with a defective p53 pathway, especially given the frequency of p53 mutation in cancer. Taken together, these studies will elaborate a detailed understanding of how p53 and its pathway mediate DNA damage checkpoints. This is expected to provide new avenues of pursuit that are relevant for prognosis and treatment of human cancer.

Third, the laboratory has been studying the role of the C-terminus of p53 in its tumor suppressor activity. Previous published studies demonstrated a role for the C-terminus in regulating target gene selection at both the level of sequence-specific DNA binding and co-activator recruitment (Resnick-Silverman et al. 1998; Hamard et al. 2012). Recently these studies have been extended in vivo. A mouse model has been generated that expresses an endogenous p53 that lacks the C-terminal 24 amino acids (Hamard et al., 2013). These mice show two overt phenotypes: a reduced number of hematopoietic stem cells leading to severe anemia and impaired proliferation of granule cells resulting in defective cerebellar development and ataxia. The underlying molecular basis involves tissue-specific alterations in p53 target gene selection and expression. These phenotypes were unexpected and have led me into areas of research that are entirely new for the laboratory and therefore quite exciting. These mutant mice are being studied to gain novel insights into the role of p53 in leukemia and medulloblastoma, as well as to provide new approaches for targeted therapies in these diseases. All told, I have worked in the p53 field for 28 years and have generated the expertise and reagents to successfully pursue these studies.

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Jeffrey Wrana	POSITION TITLE
eRA COMMONS USER NAME (credential, e.g., agency login)	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of Toronto	B.Sc.	1980-1984	
University of Toronto	Ph.D.	1984-1991	Biochemistry

<u>Position</u> <u>Location</u> <u>Date</u>

Professor Medical Genetics and 2004-present

Microbiology

University of Toronto

Senior Investigator Program in 1999-present

Molecular Biology and Cancer SLRI, Mt. Sinai Hospital

Toronto, Canada

Senior Scientist Program in 1999

Developmental Biology
The Hamital for Sick Child

The Hospital for Sick Children

Toronto, Canada

Associate Professor University of Toronto 1999-2004

Assistant Professor University of Toronto 1996-1999

Research Scientist Program in 1995-1999

Developmental Biology
The Hospital for Sick Children

Post-doctoral fellow Cell Biology Program 1991-1995

Memorial Sloan Kettering

1275 York Ave., NYC, NY, 10021

Ph.D. Dept. of Biochemistry 1984-1991

University of Toronto

C. Professional Activities

Leadership

2002-present: Director of the Lunenfeld-Tanenbaum Research Institute High Throughput Biology Robotics (SMART) facility.

2007-2012: Development of Youth Outreach Program with support from the MRI-ORF to provide outstanding high school students with the opportunity to train over the summer in research science labs.

Committees

- Hospital for Sick Children Restracom Trainee Review Committee 1998-1999
- Hospital for Sick Children Internal Ad-Hoc Review Committees 1996-1999
- Credentials committee, Samuel Lunenfeld Research Institute (2000-present)
- Chair, Core Facility committee, Samuel Lunenfeld Research Institute (2002-present)
- Space committee, Samuel Lunenfeld Research Institute (2002-present)
- Toronto Western Hospital, Reg. Med. And Eye Research Search Committees (2002-2003)
- Dept. of Med. Genetics and Microbiology. Graduate Curriculum Committee (2003)
- Chair, SLRI Search Committee (2004)
- Toronto-McMaster Drug Discovery Pipeline Initiative; Working Group Committee (2004)
- Drug Development advisory committee; Ontario Institute for Cancer Research (2006-2007)
- MSH-MaRs commercialization committee (2006)
- SLRI Research Executive (2006-)

Consultant

Creative Biomolecules, Inc., Hopkinton, MA. (1997-2000); Ophidian Pharmaceuticals, Madison, WI. (1997-1998);
 Millenium Pharmaceuticals, Cambridge, MA. (1996); Signal Pharmaceuticals, San Diego, CA. (1998-2004); de Puy Orthopaedics Inc. (2001); Proctor and Gamble Pharmaceuticals. (2001); Genzyme (2004); Merck Pharmaceuticals (2005)

Grant and Award Review Panels

- Panels: Israel Cancer Research Fund (1997-1999); National Cancer Institute of Canada, panel D (1998-1999);
 CIHR, Scholarship panel (2002); National Cancer Institute of Canada, Chair, Program Project Grant review committee (2002); Alberta Cancer Research Board (2003-2007)
- Chair, CFI-FRSQ review panel for Quebec; 2006 and 2008
- Ad hoc: Life Sciences Foundation, The Netherlands (SLW); Canadian Institutes of Health Research (CIHR);
 National Cancer Institute of Canada (NCIC); National Science and Engineering Research Council (NSERC);
 National Science Foundation, USA; North Carolina Biotechnology Center; Austrian Biomedical Research; PIRYA Awards committee, Ireland; Pfizer-FRSQ Awards Program (Quebec).
- Member Gairdner Medical Review Panel (2007-2011)
- Chair, Panel D; Canadian Cancer Research Society Research Institute (former NCIC) (2008-2011)
- Chair, Innovation Grants program, panel 1b; Canadian Cancer Research Society Research Institute (2012-)
- Member, SPARK Review Committee. Ontario Genomics Institute technology innovation funding program (2012)
- Member, Canadian Cancer Society Research Institute Impact Grant review panel (2014).

B. Positions and Honors

Positions and Employment

	
1983-1986	Postdoctoral Research Fellow, Department of Cellular and Developmental Biology
	Harvard University, Cambridge, MA (with Dr. Daniel Branton)
1986-1989	Postdoctoral Research Scientist, Department of Biological Sciences
	Columbia University, New York, NY (with Dr. Carol Prives)
1989-1993	Associate Research Scientist, Department of Biological Sciences
	Columbia University, New York, NY
1993-1996	Assistant Professor, Division of Neoplastic Diseases, Department of Medicine
	Mount Sinai School of Medicine, New York, NY
1995-2001	Assistant Professor, Department of Molecular, Cell, and Developmental Biology
	Mount Sinai School of Medicine, New York, NY
1997-2001	Assistant Professor, Derald H. Ruttenberg Cancer Center
	Mount Sinai School of Medicine, New York, NY
2002-2006	Associate Professor, Department of Oncological Sciences
	(formerly designated Derald H. Ruttenberg Cancer Center)
	Mount Sinai School of Medicine, New York, NY
2002-2006	Associate Professor, Department of Molecular, Cell, and Developmental Biology
	Mount Sinai School of Medicine, New York, NY
2007-2009	Associate Professor (with Tenure), Department of Oncological Sciences
	Mount Sinai School of Medicine, New York, NY
2007-2009	Associate Professor (with Tenure), Department of Developmental and Regenerative Biology
	(formerly designated Department of Molecular, Cell, and Developmental Biology)
	Mount Sinai School of Medicine, New York, NY
2010-present	Professor (with Tenure), Department of Oncological Sciences
•	Mount Sinai School of Medicine, New York, NY
2010-present	Professor (with Tenure), Department of Developmental and Regenerative Biology
·	Mount Sinai School of Medicine, New York, NY
Honors	
1981-1983	Pharmaceutical Manufacturers' Association Advanced Predoctoral Fellowship

1981-1983	Pharmaceutical Manufacturers' Association Advanced Predoctoral Fellowship
1983-1985	Damon Runyon-Walter Winchell Cancer Fund Postdoctoral Fellowship
1985-1986	American Heart Association Postdoctoral Fellowship
1986	Certificate of Distinction in Teaching, Harvard-Danforth Center, Harvard University
1997-2001	Career Development Award, Department of Defense Breast Cancer Program
2006	Institute for Medical Education Teaching Award, Mount Sinai School of Medicine

National Institutes of Health, CDF3 Study Section, Ad-hoc Member

Advisory Panels

2002-2003

2003-2008	National Institutes of Health, CAMP Study Section, Chartered Member
2009-2010	National Institutes of Health, CAMP Study Section, Ad-hoc Member
2010	National Institutes of Health, TCB Study Section, Ad-hoc Member
2005-2012	National Cancer Institute P01 Special Emphasis Panels, Ad-hoc Member
2009-2010	National Cancer Institute R13 Conferences Grants Panel, Ad-hoc Member
2010-2013	National Cancer Institute R13 Conferences Grants Panel, Chair
2012-2014	National Cancer institute R03/R21 Panels, Ad-hoc Member
1998-2005, 2010, 2012	Department of Defense, Breast Cancer Program Review Panel, Member
2008-2010	Department of Defense, Breast Cancer Program Review Panel, Chair
1999-2000	Department of Defense, Ovarian Cancer Program, Review Panel, Member
2002-2004	Department of Defense, Prostate Cancer Program Review Panel, Member
2005-2008	Department of Defense, Prostate Cancer Program Review Panel, Chair
1997-1999, 2003-2005	California Breast Cancer Research Program Review Panel, Member
2000-2002, 2006-2009	California Tobacco-Related Diseases Program Review Panel, Member
2011-2012	California Tobacco-Related Diseases Program Review Panel, Chair
2012-2014	Molecular Cancer Research, Senior Editor

Cancer Biology Peter Jones, Ph.D., Chair

Peer Review Panel Members for Approval

- 1. John Carpten, Ph.D.
- 2. Yves De Clerck, M.D.
- 3. Napoleone Ferrara, M.D.
- 4. Geoffrey Wahl, Ph.D.

Provide the following information for the key personnel and other significant contributors in the order

NAME	POSITION TITLE	
Carpten, John D.	Deputy Director of Basic Sciences and Professor	
era commons user name		
EDUCATION/TRAINING (Begin with baccalaureat	e or other initial professional education, such as	
	DECREE	

<u>EDUCATION/TRAINING</u> (Begin with baccalaureat	<u>e or other initia</u>	<u>al professional</u>	education, such as
	DEGREE		
INSTITUTION AND LOCATION	(if	YEAR(s)	FIELD OF STUDY
	applicable)		
Lane College. Jackson. TN	B.S.	1984-1988	Bioloav
The Ohio State University. Columbus. OH	Ph.D.	1988-1994	Molecular Genetics
National Human Genome Research Inst /NIH	Postdoc	1994-2000	Cancer Genetics

A. Personal Statement

My background includes graduate training at the Ohio State University with completion of the Ph.D. dissertation in 1994. Postdoctoral training was within the Cancer Genetics Branch at the National Human Genome Research Institute, NIH, Bethesda, MD with Dr. Jeffrey M. Trent and comentor Dr. Francis F. Collins. I was later promoted to the tenure track at NHGRI. Subsequently, I left to become a senior investigator and director for the Division of Integrated Cancer Genomics at the Translational Genomics Research Institute, Phoenix, AZ, where I now also serve as Deputy Director of Research. It is important to state that I have successfully mentored and trained over 20 students and fellows, several of whom have gone on to established careers in research and medicine. Furthermore, I have served as an external advisor on a number of NIH granted programs including P50 programs and NCI-designated comprehensive cancer centers. I have performed editorial duties for several major journals and am currently a Senior Editor for *Cancer Research*. I have been a permanent NIH study section member for both the National Cancer Institute and NHGRI, with ad hoc duties having been performed with NCRR and the DOD CDMRP prostate and breast cancer programs.

B. Positions and Honors

Positions and Employment

1994-2000 Research Fellow, National Human Genome Research Institute, NIH, Bethesda, MD

- 2000-2003 Investigator, Cancer Genetics, National Human Genome Research Institute, NIH, Bethesda, MD
- 2003-present Professor and Director, Division of Integrated Cancer Genomics, Translational Genomics Research Institute (TGen), Phoenix, AZ

2003-present Full Member, Arizona Cancer Center, University of Arizona, Tucson, AZ

2012-present Deputy Director of Basic Sciences, TGen, Phoenix, AZ

Honors

2002 National Human Genome Research Institute Mentor Award

2003 National Medical Association Urology Section Achievement Award

2006 Science Spectrum Magazine, Trailblazer Award

C. Selected peer-reviewed publications (in chronological order from over >130).

- 1. Huusko P, Ponciano-Jackson D, Wolf M, Kiefer JA, Azorsa DO, Tuzmen S, Weaver D, Robbins C, Moses T, Allinen M, Hautaniemi S, Chen Y, Elkahloun A, Basik M, Bova GS, Bubendorf L, Lugli A, Sauter G, Schleutker J, Ozcelik H, Elowe S, Pawson T, Trent JM, **Carpten JD**, Kallioniemi OP, Mousses S. Nonsense-mediated decay microarray analysis identifies mutations of EPHB2 in human prostate cancer. *Nature Genetics*. 2004 Sep; 36(9):979-83. Epub 2004 Aug 08.
- Kittles RA, Boffoe-Bonnie A, Moses T, Robbins C, Ahaghotu C, Huusko P, Pettaway C, Vijayakumar S, Bennett J, Hoke G, Mason T, Weinrich S, Trent J, Collins F, Mousses S, Bailey-Wilson J, Furbert-Harris, Dunston G, Powell I, Carpten JD. A common nonsense mutation in EphB2 is associated with prostate cancer risk in African American men with a positive family history. *Journal of Medical Genetics*. 2005; 43(6):507-511. PMCID: PMC2564535.
- 3. Baffoe-Bonnie AB, Kittles RA, Gillanders E, Ou L, George A, Robbins C, Ahaghotu C, Bennett J, Boykin W, Hoke G, Mason T, Pettaway C, Vijayakumar S, Weinrich S, Jones MP, Gildea D, Riedesel E, Albertus J, Moses T, Lockwood E, Klaric M, Faruque M, Royal C, Trent JM, Berg K, Collins FS, Furbert-Harris PM, Bailey-Wilson JE, Dunston GM, Powell I, **Carpten JD**. Genome-wide linkage of 77 families from the African American Hereditary Prostate Cancer study (AAHPC). *Prostate*. 2007; 67(1):22-31.
- 4. **Carpten JD**, Faber AL, Horn C, Donoho GP, Briggs SL, Robbins CM, Hostetter G, Boguslawski S, Moses TY, Savage S, Uhlik M, Lin A, Du J, Qian YW, Zeckner DJ, Tucker-Kellogg G, Touchman J, Patel K, Mousses S, Bittner M, Schevitz R, Lai MH, Blanchard KL, Thomas JE. A transforming mutation in the pleckstrin homology domain of AKT1 in cancer. *Nature*. 2007; 448(7152):439-444.
- 5. Tibes R, Kornblau SM, Qiu Y, Mousses SM, Robbins C, Moses T, **Carpten JD**. PI3K/AKT pathway activation in acute myeloid leukaemias is not associated with AKT1 pleckstrin homology domain mutation. *British Journal of Haematology*. 2008;140(3):344-347. PMCID: PMC3385948

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Yves A. DeClerck, MD	POSITION TITLE Professor of Pediatrics and Biochemistry and
eRA COMMONS USER NAME (credential, e.g., agency login) DECLERCK	Molecular Biology

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Our Lady of Peace University, Namur, Belgium	BS	1966-July 1969	Medicine
Louvain University, Belgium	MD	1969-July 1973	Medicine
Louvain University, Belgium		1973-1975	Residency, Pediatrics
University of Montreal, Canada		1975-1977	Residency, Pediatrics
University of Southern California		1977-1979	Fellow, Ped Hem-Onc

A. Personal Statement

My laboratory has been interested in the study of the interactions between tumor cells and their microenvironment for more than 27 years of uninterrupted support from the NIH. The initial focus of our investigations was on the extracellular matrix and in particular on its degradation by matrix metalloproteinases (MMPs) and its role in tumor invasion. Over the last 10 years our research has extended to the investigation of the interactions between tumor cells and stromal cells and in particular mesenchymal cells and their role in bone metastasis in neuroblastoma. The work supported by this PPG led to the discovery of interactive pathways between neuroblastoma cells and mesenchymal stem cells in which inflammatory cytokines play a central role. My laboratory has published more than 120 scientific publications and reviews in this field, which have been quoted more than 6,000 times. My leadership in the area of the tumor microenvironment includes being the 2010-2011 elected chair of the AACR Tumor Microenvironment Working Group, a senior editor of Cancer Research for the microenvironment and immunology section, the co-chair of the NCI-Tumor Microenvironment Network 2014-2016 and the co-chair of several conferences on the microenvironment in cancer. I have been the co-leader of the TME program at the USC Norris Comprehensive Cancer Center since 1993. I have been involved as a program PI in the program project grant on the "Biology and Therapy of High Risk Neuroblastoma" since it was originally funded in 2000. Over the last 2 years I have closely worked with Dr. Seeger on progressively assuming the leadership of the overall program. As the past director of The Saban Research Institute at CHLA (1995 to 2010) and presently the PI of a U54 grant "Center for Environment-mediated Drug Resistance in Pediatric Cancer", I have significant experience in leading cooperative research projects.

B. Positions and Honors

Positions and	<u>Employment</u>
1979	Clinical Instructor in Pediatrics, USC School of Medicine, Div of Hematology-Oncology, CHLA
1979-1980	Research Fellow, University of Liege, Belgium
1980-1981	Assistant Clinical Professor of Pediatrics, USC Sch of Medicine, Div of Hematol-Oncol, CHLA
1982-1988	Assistant Professor of Pediatrics, USC School of Medicine, Div of Hematol-Oncol, CHLA
1988-1994	Associate Professor of Pediatrics, USC School of Medicine, Div of Hematol-Oncol, CHLA
1991-1992	Visiting Scientist, International Institute of Cellular and Molecular Pathology, Catholic Univ
	Louvain Medical School, Brussels, Belgium
1993-Present	Program Leader, Tumor Microenvironment Program, Norris Comprehensive Cancer Ctr, USC
1994-Present	Professor of Pediatrics and Biochemistry & Molecular Biology, USC Keck School of Medicine
1995-2010	Vice President, Research, and Director, The Saban Research Institute of Childrens Hospital LA
1999-2000	Visiting Professor, Department of Anatomy, University of California, San Francisco
2007	Visiting Professor, International Institute of Cellular and Molecular Pathology, Catholic Univ
	Louvain Medical School, Brussels, Belgium

Honors

S.P.E.C.I.A. Prize for Outstanding Medical Student, 1973

American Cancer Society Junior Faculty Clinical Fellowship, 1982-1985

Fogarty Senior International Fellowship, 1991-1992

H. Russell Smith Award for Innovation in Pediatric Biomedical Research, 1991

CHLA Associates and Affiliates Chair in Tumor Biology, 1994-present

Richard Call Family Endowed Chair in Pediatric Research Innovation, 2010-present

USC Associates Award for Creativity in Research, 2013

Consultant

Editorial Board, Cancer Research, Associate Editor 1999-2001, 2003-2009

Editorial Board, Cancer Research, Senior Editor 2010-present

Editorial Board, Clinical Cancer Research, Member 2002-2009

Editorial Board, Journal of Cell Physiology, Member 2002-present

Editorial Board, European Journal of Cancer, Member 1995-2005

Editorial Board, Cancer Today, Member 2013-present

NIH ad hoc Review; 1990, 1991, 1994-1997, 1999, 2001-2013

NIH-NCI: Scientific Review Group - Subcommittee C, Member 1996-1997

NIH: Pathology B Study Section, Ad hoc Member 1998-2002

NIH: Pathology B Study Section, Member 2002-2003

NIH: Tumor Progression and Metastasis Study Section, Member 2003-2006

European Commission "Combating Cancer", Reviewer, 2006, 2008

NIH: Tumor Microenvironment Study Section, Ad hoc Member 2008-2009

Italian Association for Cancer Research (AIRC): Grant Reviewer, 2009, 2010, 2013, 2014

NIH: Tumor Microenvironment Study Section, Member 2010-2012

Stand Up 2 Cancer: 2011 Selection Committee

NIH/NCI: Ad hoc Member, Cancer Center Review, 2011-present

Cancer Prevention Research Institute of Texas, Cancer Biology Scientific Review Panel, 2014

Landon Foundation-AACR INNOVATOR Award for Research in Tumor Microenvironment Scientific Review Committee, 2014

Scientific Leadership

American Assoc Cancer Research: Symposium on ECM, Proteases and Cancer, Oct. 9-13, 2002, Co-Chair American Assoc Cancer Research: Symposium on Cancer, Proteases, and the Tumor Microenvironment, Nov 30-Dec 4, 2005, Co-Chair

American Assoc Cancer Research: Special Conference on Complexity of Tumor Microenvironments, Nov 3-6, 2011. Co-Chair

American Association for Cancer Research: Scientist-Survivor Program, 2000, 2002, 2003, 2005, 2006, 2010-present

American Assoc Cancer Research: Special Conferences Committee, 2005-2007

American Assoc Cancer Research: Publications Committee, 2005-2012

American Assoc Cancer Research: Tumor Microenvironment Working Group Steering Comm, 2007-2011 American Assoc Cancer Research: Chairperson, Tumor Microenvironment Working Group, 2010-2011

NIH: Co-Chair, NCI Tumor Microenvironment Network, 2011-2016

C. Selected Peer-reviewed Publications (selected from 120 peer-reviewed publications)

Most relevant publications related to this application

- 1. Sohara, Y, Shimada, H, Scadeng, M, Pollack, H, Yamada, S, Ye, W, Reynolds, CP, and **DeClerck, YA.** Lytic bone lesions in human neuroblastoma xenograft involve osteoclast recruitment and are inhibited by bisphosphonate. <u>Cancer Res</u>, 63:3026-3031, 2003.
- 2. Sohara Y, Shimada H, Minkin C, Erdreich-Epstein A, Nolta JA and **DeClerck YA.** Bone marrow mesenchymal stem cells provide an alternate pathway of osteoclast activation and bone destruction by cancer cells. <u>Cancer Res</u>, 65:1129-1135, 2005.

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Napoleone Ferrara		POSITION TITLE Moores Cancer Center Senior Deputy Director,		
eRA COMMONS USER NAME (credential, e.g., agency login) NFERRARA	Division of E	Division of Basic Science		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)				
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY	
University of Catania Medical School Catania, Italy	M.D.	04/81	Medical School	

A. Personal Statement

As the Senior Deputy Director for Basic Sciences at the Moores Cancer Center, the main research interests of my laboratory are the biology of angiogenesis and the identification of its regulators. Over twenty years ago my research team reported the isolation and cDNA cloning of vascular endothelial growth factor (VEGF) and proposed that this molecule plays a unique role in the regulation of angiogenesis. My laboratory focused on the investigation of the molecular and biological properties of VEGF. In 1993 we reported that inhibition of VEGF by specific monoclonal antibodies results in suppression of growth of a variety of tumors in vivo. These studies led to the development of a humanized anti-VEGF monoclonal antibody (bevacizumab) as a cancer therapy. Bevacizumab has been approved by the FDA for the treatment of several malignancies. Also, we reported that VEGF is an important mediator of angiogenesis associated with intraocular neovascular syndromes. These studies resulted in the clinical development of a humanized anti-VEGF Fab (ranibizumab), which has been approved by the FDA as therapy for neovascular age-related macular degeneration and retinal vein occlusion. We are presently investigating mechanisms of tumor angiogenesis alternative to VEGF, in particular the role of factors produced by myeloid cells and fibroblasts.

B. Positions and Honors

Positions

1983-1985	Postdoctoral Research Fellow, Reproductive Endocrinology Center, UCSF.
1985-1986	Intern, Dept. of Obstetrics and Gynecology, Oregon Health Sciences University.
1986-1988	Postdoctoral Research Fellow, Cancer Research Institute, UCSF.
1988-1993	Scientist, Dept. of Cardiovascular Research, Genentech, Inc.
1993-1997	Senior Scientist, Dept. of Cardiovascular Research, Genentech, Inc.
1997-2002	Staff Scientist, Dept. of Molecular Oncology, Genentech, Inc.
2002-2012	Genentech Fellow, Genentech, Inc.
2012 – Pres	Distinguished Professor of Pathology
2012 – Pres	Distinguished Adjunct Professor of Ophthalmology
2012 – Pres	Senior Deputy Director for Basic Sciences UC San Diego Moores Cancer Center

<u>Honors</u>

2004 Discover Magazine Av	ward.	
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American-Italian Cancer Foundation Prize.

Italian Assoc. for Research and Therapy of Eye Disorders (AIRCMO) Prize.

2005 AACR Bruce F. Cain Memorial Award.

Lefoulon-Delalande Institut-de-France Scientific Prize.

2006 Elected Member. National Academy of Sciences, USA.

Passano Foundation Research Award.
General Motors Cancer Research Award.

Society for Medicines Research Award.

2007 C. Chester Stock Award Lecture. Memorial Sloan-Kettering Cancer Center.

ASCO Science of Oncology Award.

Doctor honoris causa. University of Eastern Piedmont. Novara, Italy.

2008 Macula Society Arnall Patz Award.

Dr. Bruce I. Terman Memorial Lecture. Albert Einstein College of Medicine.

Michael A. O'Connor Award. Mayo Clinic Angiogenesis Symposium.

2009 Eminent Lecture Series. National Cancer Institute.

NDDO Honorary Award Lecture. Amsterdam.

Pezcoller Foundation-AACR International Award.

2010 Macula Society-Michaelson Symposium Award.

Lasker-DeBakey Clinical Medical Research Award.

Jules Gonin Lecture. Retina Research Foundation.

2011 Dr. Paul Janssen Award for Biomedical Research.

ARVO/AFER Special Recognition Award.

Juvenile Diabetes Research Foundation Award.

The Economist Innovation Award (Bioscience).

2013 Breakthrough Prize in Life Sciences

Elected Fellow AACR Academy

2014 Priscilla White Lecturership. Joslin Diabetes Center.

2014 Lasker Lecture. APSA Meeting.

Editorial Boards

Board Member: Angiogenesis; Cancer Research; Cancer Discovery; Cardiac and Vascular Regeneration; Endothelium; Frontiers in Molecular and Cellular Oncology; Journal of Cardiovascular Pathobiology; Journal of Clinical Investigation; Lymphatic Research and Biology; Science Translational Medicine; Vascular Cell. **Editor-in-Chief**: Molecular Cancer Therapeutics.

C. Publications (Selected from 310)

- 1. Shojaei, F, Wu, X, Baldwin, ME, Zhong, C, Malik, A, Shanz, S, Fuh, G, Gerber, HP, Ferrara, N. Tumor refractoriness to anti-VEGF treatment is mediated by CD11b+Gr1+ myeloid cells. *Nature Biotechnol*. 25, 911-920, 2007. PMID: 17664940
- Lee, S, Chen, TT, Jordan, M, Murdock, J, Desai, S, Ferrara, N, Nagy, A, Roos, KP, Iruela-Arispe, L. Autocrine VEGF signaling is required for vascular homeostasis. *Cell*. 130, 691-703, 2007. PMID: 17719546, PMCID: PMC3010851
- 3. Shojaei, F, Wu, X, Zhong, C, Yu, L, Liang, XH, Yao, J, Blanchard, D Peale, F, Bais, C, Van Bruggen, N, Ho, C, Ross, J, Tan, M, Carano R, Meng, YG, Ferrara, N. Bv8 regulates myeloid-cell-dependent tumour angiogenesis. *Nature*. 450, 825-831, 2007. PMID: 18064003
- 4. Crawford, Y, Kasman, IM, Yu, L, Zhong, C, Wu, X, Modrusan, Z, Kaminker, J, Ferrara, N. PDGF-C mediates the angiogenic and tumorigenic properties of fibroblasts associated with tumors refractory to anti-VEGF treatment. *Cancer Cell*. 15, 21-34, 2009. PMID: 19111878
- 5. Shojaei, F, Wu, X, Qu, X, Tan, M, Meng, G, Ferrara, N. G-CSF-initiated myeloid cell mobilization and angiogenesis mediate tumor refractoriness to anti-VEGF treatment in mouse models. *Proc. Natl. Acad. Sci. USA.* 106, 6742-6747, 2009. PMID: 19346489, PMCID: PMC2665197
- Chappel, JC, Taylor, SM, Ferrara, N, Bautch, VL. Local guidance of guidance of emerging vessel sprouts requires soluble Flt-1 (VEGFR-1). *Dev. Cell.* 17, 377-386, 2009. PMID: 19758562, PMCID: PMC2747120
- 7. Lichtenberger, BM, Tan, PK, Niederleithner, H, Ferrara, N, Petzelbauer P, Sibilia, M. Autocrine VEGF signaling synergizes with EGFR in tumor cells to promote epithelial cancer development. *Cell.* 140, 268-279, 2010. PMID: 20141840
- 8. Bais, C, Wu, X, Yao, J, Crawford, Y, McCutcheon, K, Tan, C, Yang, S, Vernes, JM, Easthan-Anderson, J, Haughney, P, Kowanetz, M, Hagenbeck T, Kasman, I, Meng, G, Hongo, JA, Stephan, JP, Shibuya, M, Ferrara, N. PIGF blockade does not inhibit angiogenesis during primary tumor growth. *Cell.* 141, 166-177, 2010. PMID: 20371352

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

POSITION TITL	-E			
Professor				
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)				
DEGREE (if applicable)	MM/YY	FIELD OF STUDY		
B.A.	06/70	Bacteriology		
Ph.D.	06/76	Biological Chemistry		
Postdoctoral	1976-1979	Biochemistry		
	Professor ofessional education, DEGREE (if applicable) B.A. Ph.D.	ofessional education, such as nursing, inc DEGREE (if applicable) MM/YY B.A. 06/70 Ph.D. 06/76		

A. Personal Statement

I have been involved in various aspects of cancer research for my entire 40 year career in science, beginning with graduate school where I was a student with Dr. Mario Capecchi, and my postdoctoral fellowship with Dr. George Stark. Since that time, I have focused my efforts at identifying the molecules and mechanisms involved in the genetic and phenotypic diversity common to most human cancers. Thus, in the 1980's I studied the mechanisms of chromosome instability, typified by gene amplification. This work culminated in the discovery that chromosome breakage initiates the most common forms of structural chromosome changes in cancer cells. Equally important, these studies showed that such events do not happen at measurable rates in normal cells, and are likely initiated when cells enter S-phase under conditions that can lead to chromosome breakage. These findings led us to investigate the mechanisms that prevent instability from occurring in normal cells, and that are inactivated during cancer progression. This led to our identification of the p53 tumor suppressor as a key mediator of the DNA damage response that can prevent cells with irreparable or persistent damage from entering into S-phase, or continuing to cycle. Over the past 10 years we used cell culture and mouse genetic strategies to elucidate the mechanisms of p53 activation, and its roles in different cell types in vivo. We have more recently turned this knowledge of p53 activation mechanisms to the development of screening strategies to identify and isolate new types of small molecules that activate the p53 pathway in the 50% of cancers in which the gene is wild type. Finally, over the past four years, we have undertaken a new project related to breast cancer. Here, the objective is to determine when during embryogenesis stem cells committed to a mammary fate are formed, and whether these cells are the cells of origin of certain types of breast cancer.

Over my career, the diverse projects my lab has pursued required that we use or develop a broad range of techniques. My lab now has expertise with sophisticated in vitro cell culture systems enabling a vast array of genetic studies; we generate sophisticated mouse models to study cancer and do lineage tracing; we isolate rare stem cells by flow cytometry, and analyze them functionally by various types of transplantation; and we interrogate gene expression patterns in rare cell types, and use bioinformatics to deduce pathways central to stem cell identity, or that are involved in generating stem-like cells during cancer progression. I have mentored more than 50 graduate students/postdoctoral fellows during this time, and this has enabled me to develop successful mentoring skills to ensure that they receive the broad training necessary in all facets of planning and executing experiments, writing and criticizing manuscripts and grants, and orally presenting their results that they will require to conduct their independent scientific careers. Therefore, I have acquired all of the requisite experience and skills to conduct the proposed research, and should the situation arise where we need to implement a new approach or develop a new method to answer an important question, my publication record demonstrates my ability to either establish the appropriate collaborations with world-renowned specialists, or develop the technology needed, to overcome challenging or unexpected obstacles or to take advantage of new opportunities.

B. Positions and Honors

Positions and Employment

1975-1976 Research Assistant Professor, Biology Department, University of Utah, Salt Lake City, UT

1976-1979 Postdoctoral Fellow, Biochemistry Department, Stanford University, Stanford, CA
1979-1984 Assistant Professor, The Salk Institute for Biological Studies, La Jolla, CA
1984-1987 Associate Professor, The Salk Institute for Biological Studies, La Jolla, CA
1985-1989 Adjunct Associate Professor, Biology Department, University of California, San Diego, CA
1989-present Postdoctoral Fellow, Biochemistry Department, Stanford University, Stanford, CA
Assistant Professor, The Salk Institute for Biological Studies, La Jolla, CA
Professor, The Salk Institute for Biological Studies, La Jolla, CA
Adjunct Professor, Biology Department, University of California, San Diego, CA

Professional Service

2000-2002	External Advisory Board; University of California, San Diego Cancer Center
2000-2003	Board of Directors; American Association for Cancer Research
2000-2003	External Advisory Board; Roswell Park Memorial Institute
2000-2003	Scientific Advisory Board; of the Keystone Symposia; Keystone, Colorado
2002-present	Editorial Board: DNA Repair, Molecular Cancer Research
2002	Co-Chair: American Association for Cancer Research Intl. Meeting with Peter Jones
2003	Co-Chair: American Association for Cancer Research Intl. Meeting with Ki Hong
2004	Program Chair: American Association for Cancer Research Annual Meeting
2005	President Elect: American Association for Cancer Research
2005-2007	Board of Directors; American Association for Cancer Research
2006-2007	President: American Association for Cancer Research
2007-2008	Past President: American Association for Cancer Research
2007-present	Scientific Advisory Board of PanCAN
2008-present	TNCI Board Member (The Nicholas Connor Institute for Pediatric Cancer)
2008-present	M.D. Anderson Hospital, Scientific Advisory Board for Cancer Center
2008-present	Scientific Advisory Board on Cancer Stem Cells, MacroGenics, Inc.
2010-	Chair Elect: Salk Institute Faculty

Honors

AAAS Fellow, Fellow of the AACR Academy, NIH Postdoctoral Fellowship; American Cancer Society Sr Fellowship; American Men and Women of Science; Award for Outstanding Contributions to Science Education, San Diego Science Educators' Association; "Citation Classic" Designation for One of the Most Highly Cited Scientific Papers, Senior Member of Sigma Xi

- C. Selected Peer-reviewed Publications (Selected from 160 peer-reviewed publications)
- 1. O'Gorman, S., Fox, D.T. and Wahl, G.M. (1991) Recombinase-Mediated Gene Activation and Site-Specific Integration in Mammalian Cells. Science 251:1351-1355.
- 2. Yin, Y., Tainsky, M.A., Bischoff, F.Z., Strong, L. C. and Wahl, G.M. (1992) Wild-type p53 Restores Cell Cycle Control And Inhibits Gene Amplification in Cells With Mutant p53 Alleles. Cell 70:937-948.
- 3. Di Leonardo, A., Linke, S.P., Clarkin, K., Wahl, G.M. (1994) DNA damage triggers a p53-dependent irreversible G1 arrest and prolonged induction of p21Cip1/WAF1/Sdi1/Pic1 in normal human fibroblasts. Genes Dev 8:2540-2551.
- 4. Aladjem, M., Groudine, M., Brody, L., Dieken, E., Fournier, R.E., Wahl, G.M., and Epner, E. (1995) Participation of the Human b-Globin Locus Control Region in Initiation of DNA Replication. Science 270:815-819.
- 5. Aladjem, M. I., Rodewald, L. W., Kolman, J. L., and Wahl, G. M. (1998) Genetic Dissection of a Mammalian Replicator in the Human b-Globin Locus. Science 281:1005-1009.
- 6. Jimenez, G.S., Nister, M., Beeche, M., Stommel, J.M., Barcarse, E., O'Gorman, S., and Wahl, G.M. (2000) A Transactivation-Deficient Mouse Model Provides Insights Into Trp53 Regulation and Function. Nature Genetics 26:37-43.
- 7. Stommel, J. and Wahl, G.M. (2004) Accelerated MDM2 Auto-Degradation Induced by DNA-Damage Kinases is Required for p53 Activation. EMBO Journal. 23:1547-1556.
- 8. Toledo, F., Krummel, K.A., Lee, C.J., Liu, C.W., Rodewald, L.W., Tang, M., Wahl, G.M. (2006) A mouse p53 mutant lacking the proline-rich domain rescues Mdm4 deficiency and provides insight into the Mdm2-Mdm4-p53 regulatory network. Cancer Cell 9(4):273-85
- 9. Wang, Y.V., Wade, M., Wong, E.T., Li, Y-C., Rodewald, L.W., and Wahl, G.M. (2007) Quantitative analyses reveal the importance of regulated Hdmx degradation for P53 activation. Proc. Natl. Acad. Sci. USA 104(30):12365-12370.
- 10. Wang, Y.V., Leblanc, M., Wade, M., Jochemsen, A.G., and Wahl, G.M. (2009) Increased radio-resistance and accelerated B-cell lymphomas in mice with Mdmx mutations that prevent modifications by DNA damage-activated kinases. Cancer Cell 16:33-43. PMCID: PMC2758524

Cancer Prevention Research Thomas Sellers, Ph.D./M.P.H., Chair

Peer Review Panel Members for Approval

- 1. Fazlul Sarkar, Ph.D.
- 2. Chinthalapally Rao, Ph.D.

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. DO NOT EXCEED FOUR PAGES.

Tollow this format for each person. Be NOT EXCEED TOOK TAGES!				
NAME Sarkar, Fazlul	POSITION Professor	POSITION TITLE Professor		
eRA COMMONS USER NAME FSARKAR				
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as				
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY	
Calcutta University, India	BS	1971	Phys, Chem, Math	

MS

Ph.D.

Post-Doc

1974

1978

1978-1982

Biochemistry

Biochemistry

Molecular Biology

A. Dr. Sarkar is a distinguished professor of pathology and oncology at Karmanos Cancer Institute, Wayne State University with a track-record of cancer research for more than three decades, and his broad research interest is focused on understanding the role of a "master" transcription factor, NF-kB and the regulation of its upstream and downstream signaling molecules in solid tumors especially focusing on breast, prostate, pancreas and colon cancer. Most importantly, the research focus of Dr. Sarkar has also been directed toward elucidating the molecular mechanism(s) of action of "natural agents" and synthetic small molecules for the prevention of tumor progression. He is one of the pioneers in developing natural agents such as Isoflavones, Curcumin and Indole compounds like DIM (B-DIM) for clinical use.. He has published over 400 original scientific articles in peer-reviewed journals and written more than 100 review articles and book chapters. He has been continuously funded by NCI, NIH and the Department of Defense (DOD) on several occasions. Dr. Sarkar has trained numerous pre-doctoral and post-doctoral students, and directed NIH funded research effectively. Dr. Sarkar's current interest is focused on miRNAs in general but with particular attention to the role of miRNA in diabetes and pancreatic cancer. In addition, Dr. Sarkar served as a Senior Editor of the journal "Molecular Cancer Therapeutics" and he is a member of the editorial board of several cancer journals, and also served in many NIH and DOD study section panels over two decades.

B. Positions and Honors.

Positions and Employment

Aligarh Muslim University, India

Banaras Hindu University, India

Memorial Sloan Kettering Cancer Center, NY, USA

- 1982-1984 Research Associate, Interferon Laboratory, Sloan-Kettering Institute for Cancer Research,
- 1984-1987 Assistant Researcher, Equivalent to Assistant Professor, Oakland University Rochester, MI, Worked on Steroid Hormones.
- 1987-1988 Director of Research, Oxford Biomedical Research, Inc., Rochester, Ml. Worked on Carcinogens, mutagenesis and human cancer.
- 1988-1990 Director, Tumor Biology, Dept. of Pathology, Henry Ford Hospital, Detroit, MI. Worked on the Molecular Cell Biology of Human Tumors.
- 1990-1999 Associate Professor, Department of Pathology, Wayne State University School of Medicine, Detroit, MI. Worked on the Molecular mechanism of gene expression and regulation in human cancer development and progression.
- 1999-Present Professor, Department of Pathology, Wayne State University School of Medicine, Detroit, MI.
- 2011- Present Distinguished Professor, Department of Pathology and Oncology, Wayne State University School of Medicine

Other Experience and Professional Memberships

Members of the American Association for Cancer Research, and American Society of Biochemistry and Molecular Biology.

Honors

Member of NIH and DOD study sections Member, Editorial Board of Journals Academic Editor, PloS One

C. Selected peer-reviewed publications (in chronological order, relevant to current proposal) (Publications chosen from over 400 peer-reviewed publications)

- 1. Ahmad A, Sarkar SH, Bitar B, Ali S, Aboukameel A, Sethi S, Li Y, Bao B, Kong D, Banerjee S, Padhye SB, Sarkar FH. Garcinol regulates EMT and Wnt signaling pathways in vitro and in vivo, leading to anticancer activity against breast cancer cells. Mol Cancer Ther 2012;11:2193-201. PMC3836047
- 2. Ali S, Banerjee S, Logna F, Bao B, Philip PA, Korc M, Sarkar FH. Inactivation of Ink4a/Arf leads to deregulated expression of miRNAs in K-Ras transgenic mouse model of pancreatic cancer. J Cell Physiol 2012;227:3373-80. PMC3323695
- 3. Azmi AS, Mohammad RM, Sarkar FH. Can network pharmacology rescue neutraceutical cancer research? Drug Discov Today 2012;17:807-9.
- 4. Bao B, Ali S, Ahmad A, Azmi AS, Li Y, Banerjee S, Kong D, Sethi S, Aboukameel A, Padhye SB, Sarkar FH. Hypoxia-induced aggressiveness of pancreatic cancer cells is due to increased expression of VEGF, IL-6 and miR-21, which can be attenuated by CDF treatment. PLoS One 2012;7:e50165. PMC3521759
- 5. Bao B, Li Y, Ahmad A, Azmi AS, Bao G, Ali S, Banerjee S, Kong D, Sarkar FH. Targeting CSC-related miRNAs for cancer therapy by natural agents. Curr Drug Targets 2012;13:1858-68. PMC3792656
- 6. Kashat M, Azzouz L, Sarkar SH, Kong D, Li Y, Sarkar FH. Inactivation of AR and Notch-1 signaling by miR-34a attenuates prostate cancer aggressiveness. Am J Transl Res 2012;4:432-42. PMC3493023
- 7. Li Y, Maitah MY, Ahmad A, Kong D, Bao B, Sarkar FH. Targeting the Hedgehog signaling pathway for cancer therapy. Expert Opin Ther Targets 2012;16:49-66.
- 8. Roy S, Levi E, Majumdar AP, Sarkar FH. Expression of miR-34 is lost in colon cancer which can be reexpressed by a novel agent CDF. J Hematol Oncol 2012;5:58. PMC3464169
- 9. Soubani O, Ali AS, Logna F, Ali S, Philip PA, Sarkar FH. Re-expression of miR-200 by novel approaches regulates the expression of PTEN and MT1-MMP in pancreatic cancer. Carcinogenesis 2012;33:1563-71. PMC3499063
- 10. Tang J, Ahmad A, Sarkar FH. The Role of MicroRNAs in Breast Cancer Migration, Invasion and Metastasis. Int J Mol Sci 2012;13:13414-37. PMC3497334
- 11. Ahmad A, Maitah MY, Ginnebaugh KR, Li Y, Bao B, Gadgeel SM, Sarkar FH. Inhibition of Hedgehog signaling sensitizes NSCLC cells to standard therapies through modulation of EMT-regulating miRNAs. J Hematol Oncol 2013;6:77. PMC3852827
- 12. Li Y, Ahmad A, Kong D, Bao B, Sarkar FH. Recent progress on nutraceutical research in prostate cancer. Cancer Metastasis Rev 2013.
- 13. Roy S, Yu Y, Padhye SB, Sarkar FH, Majumdar AP. Difluorinated-curcumin (CDF) restores PTEN expression in colon cancer cells by down-regulating miR-21. PLoS One 2013;8:e68543. PMC3722247
- 14. Sethi S, Kong D, Land S, Dyson G, Sakr WA, Sarkar FH. Comprehensive molecular oncogenomic profiling and miRNA analysis of prostate cancer. Am J Transl Res 2013;5:200-11. PMC3612515
- 15. Yu Y, Sarkar FH, Majumdar AP. Down-regulation of miR-21 Induces Differentiation of Chemoresistant Colon Cancer Cells and Enhances Susceptibility to Therapeutic Regimens. Transl Oncol 2013;6:180-6. PMC3610548

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME: Chinthalapally V. Rao eRA COMMONS USER NAME: chvrao			or of Medicine s Research Professor
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Osmania University, Hyderabad, India	B.S.	1981	Biology & Chemistry
Osmania University, Hyderabad, India	M.S.	1983	Microbiology
Osmania University, Hyderabad, India	Ph.D.	1987	Microbiology
American Health Foundation-Cancer Center, Valhalla, NY	Post-doc/ Res. Assoc.	1988-90	Carcinogenesis/Nutrition/ Chemoprevention

A. Personal Statement

Dr. Rao is an established leader in the field cancer chemopreventive drug development and nutritional carcinogenesis. His molecular targeted approaches in developing cancer chemopreventive drugs for colorectal, pancreatic and other epithelial cancer prevention/ treatment are nationally and internationally recognized. Several targeted drugs identified by Dr. Rao's research group in the preclinical models entered into the Phase II and III clinical trials conducted by the NCI, this includes COX-2 selective inhibitor, celecoxib and more recently low-dose combinational of statins and polyamine pathway inhibitors. In the field of targeted drug discovery, Dr. Rao is the first one to show that iNOS-, EGFR, ODC, and HMG-R select inhibitors as potential for colon and other epithelial cancers chemopreventive agents and greater efficacies when combined with low-doses agents with different mechanisms. Also, Dr. Rao's group is the first to show that combinational molecular targeting provides better synergistic efficacy without unwanted side effects. Dr. Rao led team of investigators in developing and optimizing animal models for understanding pathobiology of tumor progression and chemopreventive drug development. Recent years, Dr. Rao significant efforts in establishment pancreatic cancer research with emphasis on the early Dr. Rao's group optimized p48^{Cre}. LSL-K-Ras^{G12D} pancreatic ductal detection and preventive strategies. adenocarcinoma model for cancer prevention studies and shown several targeted prevent drugs usefulness for pancreatic cancer prevention. To better understand the relevance of transgenic mice models for human cancers we have recently completed whole transcriptome and miRNA sequencing using NGS-SoLID technology. In cancer genetics area, Dr. Rao has made important discoveries in elucidating putative role of BubR1 and Sgo1 in genetic instability and enhancement of colorectal and lung cancers. .

B. Positions and Honors

Positions and Employment

1/91-12/94

	American Health Foundation Cancer Center (AHFCC), an NCI-designated cancer center, Valhalla, NY;
	Assistant Professor (Adj.), Dept. of Microbiology, New York Medical College, Valhalla, NY
1/95-4/98	Research Scientist (Associate Professor), Head, Chemoprevention Program, Div. Nutrition and
	Chemoprevention, AHFCC, Valhalla, NY. Associate Professor (Adj.), Dept. of Microbiology, New York
	Medical College, Valhalla, NY

Associate Research Scientist (Assistant Professor-tenure-track), Div. Nutrition and Chemoprevention,

- 5/98-8/01. Scientist (Professor) & Associate Chief, Div. Nutritional Carcinogenesis, & Program co-Leader, Chemoprevention and Nutritional Carcinogenesis Program, AHFCC, Valhalla, NY.
- 9/01- 9/04. Chief, Div. Nutritional Carcinogenesis, and Program Leader, Chemoprevention and Nutritional Carcinogenesis Program, AHFCC, Valhalla, NY.
- 9/04- Pre. Professor and Kerley-Cade Endowed Chair in Cancer Research, Department of Medicine (Medical Oncology), Oklahoma Health Science Center, Oklahoma City, OK; Program Leader, Areodigestive Tract

Cancers (9/2004 to 6/2006); Professor (2/05-Present, Graduate College; Department of Pathology; College of Pharmacy)

6/06-7/09. Chairman, Scientific Advisory Committee- & Program Leader, Cancer Chemoprevention, OU Cancer Center.

7/09-Pre. Director, Center for Cancer Prevention and Drug Development, PCS Oklahoma Cancer Center/OUHSC

Other Experience and Professional Memberships

- Member, NIH/NCI, Molecular Targets for Cancer Intervention (BMCT-C), 2012- Pr.
- Member, NIH, National Cancer Institute, Reviewer, Cancer Chemoprevention/Dietary Study Section (CDP) 2004-6/09.
- Member, NIH/NCI, Molecular Oncology and Cancer Prevention, Program Projects Grant Review Group, 2008-Pr.
- Member, NIH/NCI, Drug Discovery, Chemoprevention and Cancer Therapeutics-Program Projects Cluster (Basic and Preclinical) Review Group, 2004-pr.
- Member, NIH, National Cancer Institute, Reviewer, Cancer Biomarkers Study Section (CBSS) 2003-2004.
- Ad-hoc Member, NIH, National Cancer Institute, Reviewer, P30 Cancer Centers Program, 2006-2010
- Member, NIH/NCI, Cancer Disparities, Prevention and Prognostic Markers, Program Project Review Group, 2009-Pre.
- Member, NIH, National Cancer Institute, Reviewer, Metabolic Pathology Study Section (MP) 1998-2002)
- Consultant, Cancer Prevention, National Cancer Center, Tokyo, Japan. 2000-pre

Honors

- Young Scientist Award for Research Excellence from the Council of Scientific and Industrial Research, India, 1987
- The Princess Takamatsu Cancer Research Fellowship Award, Tokyo, Japan, 2002
- Kerley-Cash Cade Endowed Chair in Cancer Research, University of Oklahoma, 2004.
- Outstanding Achievement in Cancer Research from AACR- of American Asian Scientists in Cancer Research, 2007.
- Regents Award for "Superior Research and Creative Activity" from the Board of Regents of the University of Oklahoma, 2008.
- "George Lynn Cross Research Professor" from the Board of Regents and President University of Oklahoma, 2011.

C. Peer-Reviewed Publications (Selected from 212) (Citations: >14,000; Article: >76; h-index: 44.7)

Most relevant articles for this proposal:

- 1. **Rao, CV.,** Mohammed, A., Janakiram, N.B., Li, Q., Ritchie, R.L., Lightfoot, S., Awasthi, V., and Steele, V.E. (2012). Inhibition of Pancreatic Intraepithelial Neoplasia Progression to Carcinoma by Nitric Oxide—Releasing Aspirin in p48^{Cre}.LSL-Kras^{G12D/+} Mice. *Neoplasia*. 14(9) 778-787. **PMID: 23019409** (With Cover Page Illustration).
- 2. Mohammed A, Janakiram NB, Brewer M, Ritchie RL, Marya A, Lightfoot S, Steele VE and Rao CV (2013). Anti-diabetes drug Metformin prevents progression of pancreatic cancer by targeting in part cancer stem cells and mTOR signaling. *Translational Oncol.*, 6:649–659. PMID: 24466367 (With Cover Page Highlight)
- 3. Mohammed A, Janakiram NB, Li Q, Madka V, Ely M, Lightfoot S, Crawford H, Steele VE, **Rao CV**. (2010) The epidermal growth factor receptor inhibitor gefitinib prevents the progression of pancreatic lesions to carcinoma in a conditional LSL-Kras^{G12D/+} transgenic mouse model. *Cancer Prev Res*, Nov;3(11):1417-26. **PMID: 21084261** (Perceptive article emphasizing use transgenic models -future pancreatic preventive trials)
- 4. Mohammed, A Janakiram, NB. Li .Q , Lightfoot, S., Steele, V.E. and **Rao, CV**. (2012). Atorvastatin delays progression of pancreatic lesions to carcinoma by regulating PI3/AKT signaling in p48^{cre}.LSL-Kras^{G12D/+} mice. *Int. J Cancer*. 131 (8) 1951-1962; **PMID: 22287227** (With Cover Page Illustration).
- 5. Mohammed, A., Janakiram, N.B., Gali, H, Lightfoot, S., Awasthi, V., and **Rao, CV.** (2012). Early Detection and Prevention of Pancreatic Cancer: Use of Genetically Engineered Mouse Models and advanced Imaging Technologies. *Current Medicinal Chemistry*;19 (12);3701-3713. **PMID**: 22680929
- 6. Mohammed, A Janakiram, NB. Brewer, M., Duff, A., Lightfoot, S., Brush, R.S., Anderson, R.E., and **Rao, CV**. (2012)Endogenous n-3 polyunsaturated fatty acids delay progress of pancreatic ductal adenocarcinoma in Fat-1.P48^{Cre}.LSL-KRas^{G12D} mice. Neoplasia, 14: 1249-1259. **PMID: 23308056**

Clinical and Translational Cancer Research Margaret Tempero, M.D., Chair

Peer Review Panel Members for Approval

- 1. Kathleen Cooney, M.D.
- 2. Fred Hirsch, M.D., Ph.D.
- 3. Albert Koong, M.D., Ph.D.
- 4. Ying Lu, Ph.D.
- 5. Pamela Munster, M.D.
- 6. Oliver Press, M.D., Ph.D.
- 7. Neil Shah, M.D., Ph.D.
- 8. Sarah Thayer, M.D., Ph.D.

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Cooney, Kathleen A.		POSITION TITLE Frances and Victor Ginsberg Professor of Hem/Onc Professor of Internal Medicine and Urology Chief, Division of Hematology/Oncology	
eRA COMMONS USER NAME (credential, e.g., agency login) kcooney			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Dartmouth College, Hanover, NH	A.B.	1980	Biochemistry
University of Pennsylvania, Philadelphia, PA	M.D.	1984	Medicine
University of Michigan Med. Ctr., Ann Arbor, MI	Intern/Resident	1984-1987	Internal Medicine
University of Michigan Med. Ctr., Ann Arbor, MI	Chief Medical Resident	1987-1988	Internal Medicine

A. Personal Statement

University of Michigan Med. Ctr., Ann Arbor, MI

I am a medical oncologist with extensive experience in the clinical management of men with advanced prostate cancer. My research focuses on the genetic epidemiology of prostate cancer. I have been continuously funded by the NIH since 1995 for my research focused on understanding the molecular underpinnings of hereditary and familial prostate cancer. As the co-PI of the UM Prostate Cancer SPORE, I have also had the opportunity to participate in a number of clinical and translational prostate cancer research projects. I am also currently the Chief of the Division of Hematology/Oncology in the Department of Internal Medicine at the University of Michigan (U of M) and oversee the activities of 60 clinical faculty and 20 fellow.

Fellow

Hematology/Oncology

1988-1991

Positions and Honors

Positions and Employment

	
1991-1993	Lecturer/Research Fellow, Dept of Int Med, University of Michigan Med School, Ann Arbor, MI
1993-2000	Asst Professor, Dept of Int Med, University of Michigan Medical School, Ann Arbor, MI
1993-present	Physician, Medicine Service, Veteran's Affairs Medical Center, Ann Arbor, MI
1995-2000	Asst Professor, Dept of Surgery-Urology, Univ of Michigan Med School, Ann Arbor, MI
2000-2005	Assoc Professor (w/tenure), Depts of Int Med & Urology, U of M Medical School, Ann Arbor, MI
2005-present	Professor (w/tenure), Depts of Int Med & Urology, Univ of Michigan Med School, Ann Arbor, MI
2006-2007	Assoc Chief, Div of Hem/Onc, Dept of Int Med, Univ of Michigan Med School, Ann Arbor, MI
2007-2008	Interim Chief, Div of Hem/Onc, Dept of Int Med, Univ of Michigan Med School, Ann Arbor, MI
2009-present	Chief, Div of Hem/Onc, Dept of Int Med, Univ of Michigan Med School, Ann Arbor, MI
2009-present	Assoc Director for Faculty Affairs, Univ of Michigan Comprehensive Cancer Ctr, Ann Arbor, MI
2009-present	Endowed Professorship, Frances and Victor Ginsberg Professor of Hematology/Oncology, Dept
	of Internal Medicine, University of Michigan Medical School, Ann Arbor, MI
2010-2013	Interim Medical Director, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI
2013-present	Deputy Director for Cancer Clinical Services, University of Michigan Comprehensive Cancer
	Center, Ann Arbor, MI

Other Experience and Professional Memberships

1995-1997	U.S. Army Breast Cancer Research Program Scientific Grant Review
1998	American Cancer Society Molecular Genetics and Oncogenes Study Section
1999-2000	NIH Special Emphasis Panel (EDC-2): Molecular Epidemiology of Prostate Carcinogenesis
1999-2000	U.S. Army Prostate Cancer and Ovarian Cancer Research Programs Scientific Grant Review
2000-2005	NIH Epidemiology of Cancer (EPIC) ad hoc & permanent Study Section Member (formerly EDC-2)
2004-present	Fellow of the American College of Physicians (F.A.C.P.)
2004-7	U.S. Army Prostate Cancer Research Program Integration Panel (ad hoc member)
2007-2010	NIH SPORE Review Panel (ad hoc member)
2007	NIH/NCI Cancer Center Site Review, New York University Cancer Institute

2005-2012	American Society of Clinical Oncology (ASCO) Grants Selection Committee
2010-2011	Chair, Conquer Foundation of the ASCO Grants Selection Committee
2010	NIH/NCI Cancer Genetics Study Section (ad hoc member)
2011-present	NIH/NCI Cancer Center Site Reviews
2011,2014	NIH/NCI IRG Subcommittee A (ad hoc member)
2012	NIH/NCI SPORE Review Panel, Co-Chair
2012-present	NIH/NCI Cancer Genetics Study Section (permanent member)
2012-present	ASCO Scientific Program Committee

<u>Honors</u>

1976	Daniel Webster Scholar, Dartmouth College
1980	Phi Beta Kappa, Dartmouth College
1984	Lillie M. Erk Prize, University of Pennsylvania School of Medicine
1988	American Cancer Society Clinical Oncology Fellowship
1999	Career Development Award, University of Michigan Agenda for Women
2000	Jerome W. Conn Award for Distinguished Research by Jr. Faculty Member, Department of Internal Medicine, University of Michigan
2009	Endowed Professorship, Frances and Victor Ginsberg Professor of Hematology/Oncology, Dept of Internal Medicine, University of Michigan Medical School, Ann Arbor, MI
2010	National Institutes of Health Award of Merit, PDQ Cancer Genetics Editorial Board
2011	League of Research Excellence, University of Michigan Medical School
2011	Chairman's Award, Dept of Internal Medicine, University of Michigan Medical School
2011-present	Best Doctors in America

C. Selected Peer-Reviewed Publications (selected from 118 peer-reviewed publications)

Most relevant to the current application

- 1. Douglas J, Levin AM, Zuhlke KA, Ray AM, Johnson GR, Lange EM, Wood DP, <u>Cooney KA</u>. Common variation in the *BRCA1* gene and prostate cancer risk. *Cancer Epidemiol Biomarkers Prev* 16(7):1510-1516, 2007. PM:17585057
- Levin AM, Ray AM, Zuhlke KA, Douglas JA, <u>Cooney KA</u>. Association between germline variation in the FHIT gene and prostate cancer in Caucasians and African Americans. Cancer Epidemiol Biomarkers Prev 16(6):1294-1297, 2007. PM:17548701
- 3. Beebe-Dimmer JL, Faerber GJ, Morgenstern H, Werny D, Wojno K, Halstead-Nussloch, BA, <u>Cooney KA</u>. Body composition and serum prostate specific antigen: A review and findings from the Flint Men's Health Study. *Urology* 71(4):554-560, 2008. PM:18308373 PMC2329814
- Hwang C, Oetjen KA, Kosoff D, Wojno KJ, Albertelli MA, Robins DM, <u>Cooney KA</u>, Duckett CS. X-linked inhibitor of apoptosis deficiency in the TRAMP mouse prostate cancer model. *Cell Death Diff* 15(5):831-840, 2008. PM:18259199 PMC2710036
- Levin AM, Machiela MJ, Zuhlke KA, Ray AM, <u>Cooney KA</u>, Douglas JA. Chromosome 17q12 variants contribute to risk of early-onset prostate cancer. *Cancer Res* 68(16):6492-6495, 2008. <u>PM:18701471</u> <u>PMC2562290</u>
- Tischkowitz MD, Yilmaz A, Chen LQ, Karyadi DM, Novak D, Kirchhoff T, Hamel N, Tavtigian SV, Kolb S, Bismar TA, Aloyz R, Nelson PS, Hood L, Narod SA, White KA, Ostrander EA, Isaacs WB, Offit K, <u>Cooney KA</u>, Stanford JL, Foulkes WD. Identification and characterization of novel SNPs in *CHEK2* in Ashkenazi Jewish men with prostate cancer. *Cancer Letters* 270(1):173-180, 2008. PM:18571837 PMC2969172
- 7. Wang L, Liu R, Li W, Chen C, Katoh H, Chen G, McNally B, Lin L, Zhou P, Zuo T, <u>Cooney KA</u>, Liu Y, Zheng P. Somatic single-hits inactivate the X-linked tumor suppressor *FOXP3* in the prostate. *Cancer Cell* 16(4):336-346, 2009. PM:19800578 PMC2758294
- 8. Ray AM, Zuhlke KA, Johnson GR, Levin AM, Douglas JA, <u>Cooney KA</u>. Absence of truncating *BRIP1* mutations in chromosome 17q-linked hereditary prostate cancer families. *British Journal of Cancer* 101(12):2043-2047, 2009. PM:19935797 PMC2795448
- 9. Chang BL, Spangler E, Gallagher S, Haiman CA, Henderson B, Isaacs W, Benford ML, Kidd LR, Cooney K, Strom S, Ingles SA, Stern MC, Corral R, Joshi AD, Xu J, Giri VN, Rybicki B, Neslund-Dudas C, Kibel AS, Thompson IM, Leach RJ, Ostrander EA, Stanford JL, Witte J, Casey G, Eeles R, The UKGPCS Coordinating Group and Collaborators, Hsing AW, Chanock S, Hu JJ, John EM, Park J, Stefflova K,

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Hirsch, Fred R.	POSITION TITLE Professor of Medicine and Pathology
eRA COMMONS USER NAME (credential, e.g., agency login)	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of Copenhagen, Denmark	M.D.	1977	Medicine
University of Copenhagen, Denmark	PhD (Dr.med.)	1983	Pathology
University of Business, Copenhagen, Denmark	Diploma	1999	Public Health Admin

Personal Statement: After training in medical oncology and pathology from Copenhagen, DK, I moved in 1999 to Denver, CO and have since then built up a CLIA-certified translational science lab with focus on biomarker development and validation for early detection of lung cancer and targeted therapy of lung cancer. My lab is performing assays based on different platforms, i. e gene copy number by Silver in Situ Hybridization (SISH), Immunohistochemistry, mRNA in situ, miRNA and PCR-based assays. The lab has been focusing on different biomarkers for prognosis and prediction of sensitivity to new targeted therapies, such as EGFR, IGFR, c-MET, MTOR and FGFR. The lab is performing biomarkers in several large clinical trials, both industry driven as well as several SWOG trials. I am co-Chair of SWOG Lung Cancer Group 's Correlative Science Committee. For early detection we are doing studies with miRNAs and in collaboration with a chemistry group in Israel, we are doing studies with exhaled breath based on a specific developed nanoparticle assay (the "E-nose"). I am continuously training/mentoring younger (foreign) oncology fellows, post-docs and younger faculty in lung cancer translational research through the SPORE program.

B. Positions and Honors.

Professional Experience

1989-1991	Associate Professor, Internal Medicine, University of Copenhagen, Denmark
1991-1992	Senior Investigator, Department of Oncology, Rigshospitalet, Copenhagen, Denmark
1992-1995	Associate Professor, Internal Medicine, University of Copenhagen, Denmark
1992-1996	Chief Physician, Department of Medical Oncology, Bispebjerg Hospital, Copenhagen, Denmark
1996-2001	Chief Physician, Department of Oncology, Finsen Center, Rigshospitalet, Copenhagen, Denmark
1999-2002	Visiting Professor, University of Colorado Cancer Center, Denver, CO, USA
2002-present	Professor of Medicine, University of Colorado Cancer Center, Denver, CO, USA
2004-present	Professor of Pathology, University of Colorado Cancer Center, Denver, CO, USA
2006-present	Professor with Tenure, University of Colorado Cancer Center, Denver, CO, USA
2011-	Associate Director for International Programs, Univ of Colorado Cancer Center.
2013	Executive Director, International Association for the Study of Lung Cancer

Honors/Awards

1995-2004	Member of WHO Expert Panel for Classification of Lung Tumors
1998-2001	Vice-chairman, EU Early Lung Cancer Detection Committee
2000-2006	Chairman, International Association for the Study of Lung Cancer; Prevention Committee
2001-2008	Member, Early Lung Cancer Action Program (ELCAP) Advisory Board, New York, USA
2001-2008	Member of Coordination Committee: EU/US cooperation for lung cancer CT-screening studies.
2002-2008	American Soc. Clin. Oncology: Program-, Publication-, International Affairs Committees.
2005-present	International Association for the Study of Lung Cancer, Board of Directors
2006-2007	American Society for Clinical Oncology. Lung Cancer Track Leader
2010-	National Cancer Institute/CTEP: Member of Thoracic Oncology Steering Committee
2007	IASLC Mary Matthews Distinguished Award for Translational Research in Lung Cancer
2010	Japanese Lung Cancer Society: Merit Award 2010

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
KOONG, Albert C.	
eRA COMMONS USER NAME	Associate Professor
KOONG.ALBERT	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Stanford University, Stanford, CA	B.S.	1989	Biology
Stanford University School of Medicine	Ph.D.	1994	Cancer Biology
Northwestern University School of Medicine	M.D.	1996	Medicine
Kaiser Permanente, Santa Clara, CA	Internship	1996-1997	Internal Medicine
Stanford University Medical Center	Residency	1997-2001	Radiation Oncology

A. Personal Statement

My laboratory has had a long-standing interest in understanding the role of the tumor microenvironment on tumor progression. We have focused on a hypoxia and ER stress activated pathway, termed the unfolded protein response (UPR), which plays a critical role in mediating tumor cell survival and promoting angiogenesis. We have utilized various genetic models to show the importance of this pathway in tumor growth. We have also completed a high throughput screen and identified several classes of small molecule inhibitors of this pathway. Additional studies are ongoing to define other signaling pathways that interact with the UPR and to target these pathways as a cancer therapeutic strategy.

My clinical research is focused on the application of advanced radiotherapy technologies for GI malignancies. In particular, I am interested in developing stereotactic body radiotherapy (SBRT) and image guided radiotherapy (IGRT) techniques for the treatment of pancreatic and liver tumors.

B. Positions and Honors Professional Experience

<u>i i di Coolidi</u>	<u> Experience</u>
2001-2009	Assistant Professor, Radiation Oncology, Stanford University Medical School
2001-present	Attending Physician, Radiation Oncology, Stanford University Medical Center
2009-present	Associate Professor, Radiation Oncology, Stanford University Medical School
2011-present	Vice-Chair, Radiation Oncology, Stanford University Medical School
2014-present	Professor, Radiation Oncology Stanford University Medical School

Profession Activities/Honors

1999	Chief Resident, Radiation Oncology, Stanford University Medical Center
1999	Roentgen Resident/Fellow Research Award, Radiological Society of North America
1999	Resident Clinical/Basic Research Award
	American Society for Therapeutic Radiology and Oncology
2001	Malcolm A. Bagshaw Award
2002	ASTRO Junior Faculty Research Award
2002	Damon Runyon-Lilly Clinical Investigator Award
2013	Richard T. Hoppe Leadership Award

C. Selected Peer-Reviewed Publications (total of 126)

- 1. **Koong AC**, Mehta VK, Le QT, Fisher GA, Terris DJ, Brown JM, Bastidas AJ, Vierra M. Pancreatic tumors show high levels of hypoxia. Int J Radiat Oncol Biol Phys. 2000 Nov 1; 48(4): 919-22.
- 2. **Koong AC**, Le QT, Ho A, Fong B, Fisher G, Cho C, Ford J, Poen J, Gibbs IC, Mehta VK, Kee S, Trueblood W, Yang G, Bastidas JA. Phase I study of stereotactic radiosurgery in patients with locally advanced pancreatic cancer. Int J Radiat Oncol Biol Phys. 2004 March 15; 58(4): 1017-21.

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITL	POSITION TITLE Professor of Biostatistics, Stanford University		
Lu, Ying				
eRA COMMONS USER NAME (credential, e.g., agency login) YINGLU	Director of Palo Alto Cooperative Studies Progra Center, Palo Alto VA Healthcare System			
EDUCATION/TRAINING (Begin with baccalaureate or other initial proresidency training if applicable.)	fessional education,	such as nursing, ii	nclude postdoctoral training and	
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY	
Fudan University, Shanghai, China	B.S.	07/82	Mathematics	
Shanghai Jiao Tong University, Shanghai, China	M.S.	07/84	Applied Mathematics	

A. Personal Statement

As a statistician, I have worked in cancer research in the past 24 years. From 1999-2009, I worked in the HDF UCSF Comprehensive Cancer Center and directed the biostatistics core from 2002-9. My research interests include new statistical design for various phase of clinical trials, validation of new imaging modalities, medical decision making for personalized diagnostic and treatment decisions. I was a member of AJCC task force, served external advisory boards for the Tufts Medical Center Cancer Center and the UCLA Brain Cancer SPORE application, and various DSMB committees. At Stanford and VA Palo Alto, I direct the Palo Alto VA Cooperative Studies Program Coordinating Center to organize and provide comprehensive support for large multicenter clinical trials, including a trial in prostate cancer. I am also a member of Stanford Cancer Center.

B. Positions and Honors

Positions and	<u>l Employment</u>
2009-present	Professor of Biostatistics, Department of Health Research and Policy, Stanford University
2009-present	Director, Palo Alto Cooperative Studies Program Center, Palo Alto VA Health Care System
1994-2009	Assistant (94-98), Associate (98-03) Adjunct Professor, and Associate Professor in Residence
	(2003-06), Professor in Residence (2006-2009), Director of Biostatistics and Outcome Research
	Specialized Research Group (2007-2009), Dept of Radiology and Biomedical Imaging;
	Associate Professor in Residence (2003-06), Professor in Residence (2006-09), Dept of
	Epidemiology and Biostatistics (2003-2009), University of California, San Francisco, CA
2000-2009	Faculty Member, Bioengineering Graduate Program, University of California San Francisco &
	Berkeley
1999-2009	Director (2002-2009), Biostatistics Core Facility; Member of Cutaneous Oncology Program, and
	GI Oncology Program of the HDF UCSF Comprehensive Cancer Center,
	University of California, San Francisco, CA
1990-1994	Assistant Professor, Department of Epidemiology and Public Health, School of Medicine,
	University of Miami, Miami, Florida
1986-1989	Biostatistician/Analyst. Triton Biosciences, Inc., Alameda, CA 94501
1984-1985	Instructor, Dept. of Applied Mathematics, Shanghai Jiao Tong University, Shanghai, China

1995-2010	Vice President (1995-97), President Elected (1997-98, 2004-05),
	President (1998-99, 2005-06), Chapter Representative (2006-2010),
	American Statistical Association San Francisco Bay Area Chapter
1995-1999	Member, International Committee on Standardization of Bone Measurement
2001-2002	Ad hoc reviewer of project program grant, NIH

Other Experience and Professional Memberships

2004-2006 2006-2011 2006-2009 2009-present 2007-2009 2007-2011	Temporary member, Epidemiology of Clinical Disorders and Aging Study Section, NIH; Member, NIH Neurological, Aging, & Musculoskeletal Epidemiology (NAME) Study Section Member, American Joint Committee on Cancer (AJCC) Statistical Task Force Member, American Joint Committee on Cancer (AJCC) Molecular Modeler Group Member, WNAR Regional Committee Member, US Food and Drug Administration Peripheral and Central Nervous System Drugs Advisory Committee
•	Member, the External Advisory Board of the Tufts Medical Center Cancer Center
2008-2011 2010-present	Chair, Program Committee, International Chinese Statistical Association Member, Veterans Administration Centralized Data Monitoring Committee for Phase I Studies
•	Member, VA's Health Services Research and Development Data and Safety Monitoring Board
2013-present	President-elect (2013) and President (2014), International Chinese Statistical Association
<u>Honors</u>	
1985-1988	University Fellowship, UC Berkeley, CA
1989	School of Public Health Alumnus Scholarship, UC Berkeley, CA
1990	The Evelyn Fix Memorial Medal and Citation, Dept of Statistics, UC Berkeley, CA
2003	Healthstar Osteoporosis Medical Research Award, the Chinese Development Foundation

C. Selected Peer-reviewed Publications (out of 215 peer-reviewed papers)

Elected Fellow, American Statistical Association

For Science and Technology, Beijing, China

Most relevant to the current application

Francisco, CA

2009

2010

2011

1. Malani HM, <u>Lu Y</u>. Animal carcinogenicity experiments with and without serial sacrifice. Communications in Statistics—Theory and Methods 1993; 22:1557-1584

Exemplary Service Award, UCSF Helen Diller and Family Comprehensive Cancer Center, San

Advisory Committee Service Award, US Food and Drug Administration, Washington DC

- 2. <u>Lu Y</u>, Malani HM. Estimating multiple tumor transition rates based on data from survival/sacrifice experiments. Mathematical Biosciences 1994; 122:95-125.
- 3. <u>Lu Y</u>, Bean JA. On the sample size for studies of bioequivalence based upon McNemar's test. Statistics in Medicine 1995; 14:1831-1839
- 4. <u>Lu Y</u>, Malani HM. Analysis of Animal Carcinogenicity Experiments with Multiple Tumor Types. 1995; Biometrics 51:73-86.
- 5. Sevin B-U, <u>Lu Y</u>, Nadji MN, Bloch D, Koechli OR, Averette HA. Surgically defined prognostic parameters in early cervical carcinoma: A tree structured survival analysis. Cancer 1996; 78:1438-1446.
- 6. Kinkel K, <u>Lu Y</u>, Both M, Warren RS, Thoeni RF. Detection of hepatic metastases from cancers of the gastrointestinal tract using noninvasive imaging methods (US, CT, MRI, FDG PET): a meta-analysis, *Radiology* 2002; 224(3):748-756
- 7. <u>Lu Y</u>, Jin H, Genant HK. On the equivalence of two diagnostic tests based on paired observations. *Statistics in Medicine* 2003 Oct; 22(10):3029-44. PMID: 12973785
- 8. <u>Lu Y</u>, Jin H, Lamborn K. Design of phase II cancer trials with both total and complete responses. *Statistics in Medicine* 2005 Oct 30;24(20):3155-70. PMID: 12973785
- 9. Fan S, Venook AP, <u>Lu Y</u>. Design issues in dose-finding phase I trials for combinations of two agents. *Journal of Biopharmaceutical Statistics* 2009; 19(3): 509-23.
- 10. Li C and <u>Lu Y</u>. Evaluating the improvement in diagnostic utility from adding new predictors. *Biometrical Journal* 52 (3): 417-435, 2010. PMID: 20496347
- 11. <u>Lu Y</u>, Fan S. On the Time to Conclusion of Phase II Cancer Clinical Trials and Its Application in Trial Designs. *Statistics in Biopharmaceutical Research*. 2012; 4(4):324-335.
- 12. Kornak J, <u>Lu Y.</u> Bayesian Decision Analysis for Choosing Between Diagnostic/Prognostic Prediction Procedures. *Statistics and Its Interface*. 2011; 4(1):27-36. PMID: 23243483. NIHMSID #241219

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Pamela N. Munster	POSITION TITLE
eRA COMMONS USER NAME (credential, e.g., agency login) munstepn	M.D., Professor of Medicine

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Kantonsschule Sargans, Switzerland University of Bern, Switzerland	Baccalaureate Doctorate	1983 1990	Sciences, Liberal Arts Medicine
University of Bern, Switzerland	M.D. Thesis	1992	Medicine

A. Personal Statement

My clinical research interests are "first in human" early phase clinical trials of novel compounds and alternative strategies for the treatment and prevention of cancer. As the program leader for Development Therapeutics and a member of the breast program I have extensive experience in translating preclinical findings into early stage clinical trials with extensive PK and PD correlative studies for patients with breast cancer. My experience in drug development with systemic agents has taught me that the current development of anticancer agents may be associated with too many side effects and too little gain for patients at risk for breast cancer desiring prevention. We are now focused on novel strategies to optimize local therapy and minimize systemic toxicities.

My research interest is focused on the role of epigenetic modification in hormone therapy resistance in breast cancer. In addition to studying basic mechanisms of hormone therapy resistance, we have shown that epigenetic modification plays a crucial role in the hormonal regulation and carcinogenesis of breast cancer.

B. Positions and Honors

7/2010-present

Positions and Employment

4/1990-5/1992 4/1991-5/1992 5/1992-6/1993	Postdoctoral Fellow, University of Bern, Department of Physiology, Bern, Switzerland. Chief Postdoctoral Fellow University of Bern, Department of Physiology, Bern, Switzerland Postdoctoral Fellow, Indiana University, Krannert Institute of Cardiology, Indianapolis, IN.
6/1993-6/1996	Residency in Internal Medicine, Indiana University at Indianapolis, Indiana, IN.
7/1996-6/2000	Fellowship Hematology/Oncology, Memorial Sloan Kettering Cancer Center/The New York Hospital-Cornell Medical Center, New York, NY.
	Memorial Sloan Kettering Cancer Center, Department of Medicine,
8/2000-6/2001	Assistant Member, Memorial Sloan Kettering Cancer Center, New York, NY, Breast Cancer Service, New York, NY.
6/2001-5/2006	Assistant Professor, Division of Breast Oncology & Experimental Therapeutics, Moffitt Cancer Center, Dept of Internal Medicine, University of South Florida, Tampa, FL, Scientific Director, Comprehensive Breast Program
6/2005-5/2008	Faculty, Cancer Biology PhD Program, University of South Florida, Tampa, FL
6/2006-5/2008	Associate Professor: Division of Breast Oncology & Experimental Therapeutics, Moffitt
0.2000 0.2000	Cancer Center, Department of Internal Medicine, University of South Florida, Tampa, FL Co-Chair, Phase I Program
5/2008-6/2010	Associate Professor in Residence, Hematology/Oncology Program, Dep. Medicine, University of California San Francisco, San Francisco, CA, Director Early Phase Clinical
4/0000	Trials Program
4/2009-present	Medical Director for MTZ CRC, Clinical Translational Science Award (CTSA)
6/2007-present	Faculty Affiliate, Colorado State University, Ft. Collins, CO

Professor in Residence, Hematology/Oncology Program, Department of Medicine

University of California San Francisco, San Francisco, CA, Program Leader Developmental Therapeutics, Associate Director, Investigational Therapeutics Initiative,

<u> Honors:</u>

1998 John Mendelsohn House staff Teaching Award

1999 AACR-AFLAC Young Investigators Scholar Award 1999

2000 Byrne Fund Award

2003 Don Shula Career Development Award, 2003-2005

2007, 2008 Moffitt Cancer Center, Greatest Number of Investigator-Initiated Trials Written &

Implemented

2008 Research Highlights, Department of Defense, Congressionally Directed Medical Research

Programs

Other Experiences and Professional Memberships

BioMedical Graduate Program, University of California, San Francisco

Faculty Advisor, University of Copenhagen, Denmark Faculty Advisor, Colorado State University, Ft. Collins, CO Editorial Board: Journal of Clinical Oncology

Associate Editor: Clinical Epigenomics

NCI/NHI review: Chartered Member, Development therapeutics Study section,

NCI/NIH Ad Hoc Member for P01, P30 and Special Emphasis

Panels

Alliance (NCCTG, CALGB, ACOSOG) Committee Member for Experimental Therapeutics

Selected Peer-reviewed Publications (Selected from 75 peer-reviewed Publications)

- Münster PN, Buzdar A, Dhingra K, Enas N, Ni L, Major M, Melemed A, Seidman A, Booser D, Theriault R, Norton L, Hudis C. Phase I Study of a Third-Generation Selective Estrogen Receptor Modulator, LY353381.HCl, in Metastatic Breast Cancer. J Clin Oncol. 19 (7):2002-2009, 2001. PMID:11283133
- Münster PN, Troso-Sandoval T, Rosen N, Rifkind R, Marks PA and Richon, VM. Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid Induces Differentiation of Human Breast Cancer Cells: Cancer Research, Dec 1;61(23):8492-7
- 3. Basso A, Solit D, **Münster PN** and Rosen N. Ansamycin Antibiotics Inhibit Akt Activation and Tumor Growth in Human Breast Cancers That Overexpress HER2. Oncogene. 2002 Feb 14;21(8):1159-66.
- 4. **Münster PN**, Marchion D, Basso A and Rosen N. Degradation of HER2 by Ansamycins Induces Growth Arrest and Apoptosis in Cells with HER2 Overexpression via a Phosphatidylinositol 3'- Kinase-AKT- dependent Pathway. Cancer Res. *62*: 3132-7., 2002.
- 5. Marchion DC, Bicaku E, Daud AI, Sullivan DM and **Münster PN**. Valproic Acid Alters Chromatin Structure by Regulation of Chromatin Modulation Proteins. Cancer Res, May 2005 65: (9):3815-22.
- 6. Marchion DC, Bicaku E, Turner JG, Daud AI, Sullivan DM and **Münster PN.** Synergistic interaction between HDAC and topo II inhibitors is mediated through topo IIβ. Clin Cancer Res. 2005 Dec 1;11(23):8467-75.
- 7. **Münster PN,** Britten CD, Mita M, Gelmon K, Minton SE, Moulder S, Slamon DJ, Guo F, Letrent SP, Denis L and Tolcher AW. First Study of the Safety, Tolerability and Pharmacokinetics of CP-724,714 in Patients with Advanced Malignant Solid HER2-expressing tumors. Clin Cancer Res. 2007 Feb 15;13(4):1238-45.
- 8. **Münster PN**, Marchion DC, Bicaku E, Schmitt M, Deconti R, Simon G, Fishman M, Minton S, Garrett C, Chiappori A, Lush R, Sullivan D, and Daud A. Phase I trial of histone deacetylase inhibition by valproic acid (VPA) followed by the topoisomerase II inhibitor epirubicin in advanced solid tumors: A clinical and translational study. J Clin Oncol. 2007 May 20;25(15):1979-85.
- 9. **Münster PN**, Marchion D, Bicaku E, Lacevic M, Kim J, Centeno B, Daud A, Neuger A, Minton S, Sullivan D. Clinical and biological effects of valproic acid as a histone deacetylase inhibitor on tumor and

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

-	Follow this format for each pe	erson. DO NOT E	XCEED FOU	R PAGES.	
NAME			POSITION TITLE		
Oliver W. Press			Professor of Medicine, University of Washington		
eRA COMMONS OPRESS	S USER NAME (credential, e.g., agency login)	Membe	r, Fred Hu	itchinson Cancer Research Center	
EDUCATION/TF residency trainir	RAINING (Begin with baccalaureate or other initial og if applicable.)		ation, such as	s nursing, include postdoctoral training and	
	INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY	
Stanford Ur	iversity, Stanford, CA	B.S.	06/73	Biology	
University o	f Washington, Seattle, WA	Ph.D.	06/77	Biological Structure	
University o	f Washington, Seattle, WA	M.D.	06/79	Medicine	
Massachus	etts General Hospital, Boston, MA		06/82	Medicine Internship & Residency	
University o	f Washington, Seattle, WA		06/83	Chief Resident in Medicine	
Positions:					
1979-1980	Internship, Massachusetts General				
1980-1982	Residency, Massachusetts General	•			
1979-1982	Clinical Fellow in Medicine, Harvard		•		
1982-1983	Chief Resident, University of Washin	•			
1982-1986	Acting Instructor in Medicine, Univer	•	•		
1983-1986	Postdoctoral Fellow, UWMC and Fre			The state of the s	
1983-1986	Associate in Clinical Research, Fred			•	
1986-1991	Assistant Member, Fred Hutchinson				
1987-1991	Assistant Professor in Medicine, Un				
1988-1991	Adjunct Assistant Professor of Biolo	•		•	
1990-2006	Associate Director, Medical Scientis				
1991-1996	Associate Professor in Medicine and	•		•	
1991-1996	Associate Member, Fred Hutchinson Cancer Research Center, Seattle				
1993-2000	Acting Program Director, High Dose Chemotherapy Service, Univ. of Washington				
1996-2009	Adjunct Professor of Biological Struc		sity of Was	shington	
	Professor of Medicine, University of				
	-Present Member, Fred Hutchinson Cancer Research Center, Seattle				
2006-2009	Director, Clin. Research Hematology & Hematologic Malignancies, Seattle Cancer Care Alliance				
	Co-Director, Center for Intracellular				
	: Co-Director, Training Program in Nanotechnology and Physical Sciences in Cancer Research, University of Washington				
	Adjunct Professor of Bioengineering	•	_		
	Acting Senior Vice President, Fred I				
	Acting Director and Member, Clinica	ıl Research D	ivision, Fh	HCRC	
Honors:					
1970-1973	George E. Gamble Honors Scholars	• .	University	/	
1973	Phi Beta Kappa, Stanford University				
1973	Departmental Honors and Departme			ogy, Stanford University	
1969-1973	Dean's List of Honors Students, Sta		•		
1976	Alpha Omega Alpha, Honorary Med	•	•	as 3rd year student)	
1978	Scholarship from International College of Surgeons				
1979	PhD Thesis Honors				
1979	Graduation with "Highest Honors" U		asningtor	I School of Medicine	
1979	Seattle Academy of Internal Medicin		·:	linia al On a ala mu	
1985-1986	Young Investigator Award from the				
1985-1988	Clinical Oncology Career Developm	ent Award fro	iii liie AM		

1987-1992 First Independent Research and Training Award from the National Institutes of Health 1996-present Election to American Society of Clinical Investigation

2000-present Election to American Association of Physicians

2000-present Recipient, Dr. Penny E. Petersen Memorial Chair for Lymphoma Research 2007 Ellen Glesby Cohen Leadership Award, Lymphoma Research Foundation 2005 2008 Chairman, Scientific Advisory Board, Lymphoma Research Foundation

2005-2008 Chairman, Scientific Advisory Board, Lymphoma Research Foundation

2008-present Chairman, Follicular Lymphoma Consortium, Lymphoma Research Foundation

2009 Freundlich Leadership Award, Lymphoma Research Foundation 2009-Present Co-Chair, National Cancer Institute Lymphoma Steering Committee

2010-2014 Member, American Society of Hematology, Scientific Committee on Lymphoid Neoplasia 2013-2014 Chair, American Society of Hematology, Scientific Committee on Lymphoid Neoplasia

Selected Peer-reviewed Publications (Selected from >200 peer-reviewed publications)

- 1. **Press OW**, Palanca-Wessels MC. Selection of First-Line Therapy for Advanced Follicular Lymphoma. J Clin Oncol. 2013;31:1496-8. PMCID In Process
- 2. Green DJ, Orgun NN, Jones JC, Hylarides MD, Pagel JM, Hamlin DK, Wilbur DS, Lin Y, Fisher DR, Kenoyer AL, Frayo SL, Gopal AK, Orozco JJ, Gooley T, Wood BL, Bensinger W, **Press OW**. A preclinical model of CD38-pretargeted radioimmunotherapy for plasma cell malignancies. Cancer Res. 2013 Dec 26. [Epub ahead of print]
- 3. Budde LE, Berger C, Lin Y, Wang J, Lin X, Frayo SE, Brouns SA, Spencer DM, Till BG, Jensen MC, Riddell SR, **Press OW**. Combining a CD20 Chimeric Antigen Receptor and an Inducible Caspase 9 Suicide Switch to Improve the Efficacy and Safety of T Cell Adoptive Immunotherapy for Lymphoma. PLoS One. 2013 Dec 17;8(12):e82742. PMCID: PMC3866194.
- 4. Press OW, Unger JM, Rimsza LM, Friedberg JW, LeBlanc M, Czuczman MS, Kaminski M, Braziel RM, Spier C, Gopal AK, Maloney DG, Cheson BD, Dakhil SR, Miller TP, Fisher RI. A Phase III Randomized Intergroup Trial of CHOP Chemotherapy Plus Rituximab Compared to CHOP Chemotherapy Plus ¹³¹Iodine-Tositumomab for Previously Untreated Follicular Non-Hodgkin's Lymphoma (SWOG S0016). J Clin Oncol. 2013 31:314. PMCID: PMC3732010
- 5. Till BG, Jensen MC, Wang J, Qian X, Gopal AK, Maloney DG, Lindgren CG, Lin Y, Pagel JM, Budde LE, Raubitschek A, Forman SJ, Greenberg PD, Riddell SR, **Press OW**. CD20-specific adoptive immunotherapy for lymphoma using a chimeric antigen receptor with both CD28 and 4-1BB domains: pilot clinical trial results. Blood.119:3940, 2012. PMCID:PMC3350361
- 6. Park SI, Shenoi J, Frayo SM, Hamlin DK, Lin Y, Wilbur DS, Stayton PS, Orgun N, Hylarides M, Buchegger F, Kenoyer AL, Axtman A, Gopal AK, Green DJ, Pagel JM, **Press OW**. Pretargeted radioimmunotherapy using genetically engineered antibody-streptavidin fusion proteins for treatment of non-Hodgkin lymphoma. Clin Cancer Res. 17:7373, 2011. PMCID: PMC3229652.
- 7. Palanca-Wessels MC, Convertine AJ, Cutler-Strom R, Booth GC, Lee F, Berguig GY, Stayton PS, **Press OW**. Anti-CD22 antibody targeting of pH-responsive micelles enhances small interfering RNA delivery and gene silencing in lymphoma cells. Molecular Therapy. 19:1529, 2011. PMCID: PMC3149160
- 8. Pagel JM, Kenoyer AL, Bäck T, Hamlin DK, Wilbur DS, Fisher DR, Park SI, Frayo S, Axtman A, Orgun N, Orozco J, Shenoi J, Lin Y, Gopal AK, Green DJ, Appelbaum FR, **Press OW**. Anti-CD45 pretargeted radioimmunotherapy using bismuth-213: high rates of complete remission and long-term survival in a mouse myeloid leukemia xenograft model. Blood. 118:703, 2011. PMCID: PMC3142907
- Gopal AK, Guthrie KA, Rajendran J, Pagel JM, Oliveira G, Maloney DG, Matesan M, Storb RF, Press OW.
 90Y-ibritumomab tiuxetan, fludarabine, and TBI based non-myeloablative allogeneic transplant conditioning for patients with persistent high-risk B-cell lymphoma. Blood 118:1132, 2011. PMCID:PMC3673760
- 10. Park SI, Shenoi J, Pagel JM, Hamlin DK, Wilbur DS, Orgun N, Kenoyer AL, Frayo S, Axtman A, Bäck T, Lin Y, Fisher DR, Gopal AK, Green DJ, Press OW. Conventional and Pretargeted Radioimmunotherapy Using Bismuth-213 to Target and Treat Non-Hodgkin Lymphomas Expressing CD20: A Preclinical Model towards Optimal Consolidation Therapy to Eradicate Minimal Residual Disease. Blood 116:4231, 2010. PMCID: PMC2993626
- 11. Wilbur DS, Park SI, Chyan MK, Wan F, Hamlin DK, Shenoi J, Lin Y, Wilbur SM, Buchegger F, Pantelias A, Pagel JM, **Press OW**. Design and synthesis of bis-biotin-containing reagents for applications utilizing monoclonal antibody-based pretargeting systems with streptavidin mutants. Bioconjug Chem, 21:1225, 2010. PMCID: PMC2912428
- 12. James SE, Greenberg PD, Jensen MC, Lin Y, Wang J, Budde LE, Till BG, Raubitschek AA, Forman SJ, **Press OW**. Mathematical modeling of chimeric TCR triggering predicts the magnitude of target lysis and its impairment by TCR downmodulation. J Immunol 184:4284, 2010. PMCID: PMC2896691
- 13. James SE, Orgun NN, Tedder TF, Shlomchik MJ, Jensen MC, Lin Y, Greenberg PD, Press OW. Antibody

Program Director/Principal Investigator (Last, First	t,
Middle):	

Shah, Neil Pravin

BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Shah, Neil Pravin	Associate Professor of Medicine
eRA COMMONS USER NAME (credential, e.g., agency login)	7
neilshah	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of California, Berkeley	B.S.	1984	Genetics
University of California, Los Angeles	PhD	1992	Microbiology and Molecular Genetics
UCLA School of Medicine	MD	1996	Medicine
UCLA School of Medicine	Intern	1996-1997	Internal Medicine
UCLA School of Medicine	Fellow	1998-2003	Hematology/Oncology

A. Personal Statement

The overarching goals of my research are to identify and override mechanisms of resistance to small molecule tyrosine kinase inhibitors used for the treatment of human myeloid malignancies. I have extensive previous experience performing translational studies with clinically-active kinase inhibitors for the treatment of hematologic malignancies. These studies have provided definitive evidence for the phenomenon of oncogene addiction in human CML and AML. As a postdoctoral fellow in the laboratory of Charles Sawyers at UCLA, I identified resistance-conferring kinase domain mutations within BCR-ABL, the target of imatinib, as the most common mechanism of clinical resistance to this tyrosine kinase inhibitor (TKI) in chronic myeloid leukemia (CML) patients. I then performed the first preclinical studies demonstrating the promise of BMS-354825 (dasatinib) for the treatment of imatinib-resistant CML, and was involved with its clinical development from the phase I first-in-human study through subsequent phase III studies that led to its accelerated approval by the US FDA in 2006 for imatinib-resistant or -intolerant CML. In an effort to expand the successful BCR-ABL TKI paradigm to other hematologic malignancies, I have recently devoted an increasing proportion of my efforts to preclinical and clinical studies with potent FLT3 inhibitors in AML, and to identifying mechanisms of resistance to clinically active agents. Recent data from my lab validates FLT3-ITD as a therapeutic target in human AML. I have extensive experience serving as the Principal Investigator on early phase clinical trials with TKIs, including inhibitors of BCR-ABL, JAK2, and FLT3, and performing translational studies with this class of targeted therapeutics. In recognition of my contributions to the field of TKI therapy in hematologic malignancies, I received a Leukemia & Lymphoma Society Scholar in Clinical Research Award.

B. Positions and Honors

Positions and Employment

1984-198 <i>1</i>	Staff Research Associate, Division of Hematology and Oncology, UCLA
2003-2004	Associate Physician, Division of Hematology and Oncology, The David Geffen School of
	Medicine at UCLA
2004-2006	Visiting Assistant Professor, Division of Hematology and Oncology, The David Geffen
	School of Medicine at UCLA
2006-2011	Assistant Professor, Division of Hematology/Oncology, UCSF School of Medicine
2010-2011	Co-leader, Program in Hematopoietic Malignancies, UCSF Cancer Center
2011-present	Associate Professor, Division of Hematology/Oncology, UCSF School of Medicine
2011-present	Edward S. Ageno Distinguished Professor in Hematology/Oncology, UCSF
2012-present	Leader, Program in Hematopoietic Malignancies, UCSF Cancer Center
Honors	
1995	Alpha Omega Alpha Medical Student Research Prize
2004	AACR Scholar-in-Training Award
	, , ,

NAME Sarah P. Thayer, M.D., Ph.D.	POSITION TITLE Associate Professor of Surgery; Director, Pancreatic Biology
eRA COMMONS USER NAME (credential, e.g., agency login) SPTHAYER	Laboratory, Mass. General Hospital, Boston. 5/2014: Merle M. Musselman Centennial Professor of Surgery; Physician-in-Chief, Fred & Pamela Buffett Cancer Center; Chief, Division of Surgical Oncology, University of Nebraska Medical Center, Omaha, Nebraska

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Earlham College, Richmond, Indiana	B.A.	1985	Biology
Georgetown University, Washington, DC	M.S.	1987	Physiology & Biophysics
Univ. of Virginia School of Med., Charlottesville	M.D.	1991	Medicine
Massachusetts General Hospital, Boston		1991-94	Resident in Surgery
Massachusetts General Hospital, Boston		1998-2000	Resident in Surgery
Cornell Univ. Grad. School of Medical Sciences	Ph.D.	1999	Neuroscience
Massachusetts General Hospital, Boston		2000-01	Chief Resident, Surg/Onc.

A. Personal Statement

The focus of the Thayer laboratory has been to investigate the genes that may contribute to the initiation, progression and regulation of pancreatic cancer. My early work focused on the early and late role of a developmental gene, Shh, in pancreatic cancer (Nature 2003). This work revealed that Shh is upregulated early in pancreatic carcinogenesis and in response to chronic inflammatory injury. Although Shh plays an important later role in the biology of pancreatic cancer, it has an equally important early role as an initiator, driving the formation of mucinous ductal lesions resembling early precursor lesions to cancer. My lab has since focused further on characterizing the cell of origin responsive to Shh and the mechanism behind pancreatic regeneration in response to inflammatory injury, and how these may contribute to the formation of pancreatic cancer precursor lesions, and ultimately to cancer. My group was the first to categorize and classify three distinct forms of metaplastic ductal lesions formed in the regenerative response to chronic inflammation (PNAS 2007) and their role in regeneration and cancer. Using a chronic inflammatory injury model in combination with in vivo lineage tagging, we demonstrated that the beta cell (PNAS 2007) and acinar cell (Gastroenterology 2007) compartments regenerate by self-renewal. We went on to demonstrate that these compartments do not transdifferentiate and do not contribute to the formation of metaplastic ductal lesions, and thus are an unlikely cell of origin for pancreatic cancer. Most recently, investigation of Shh has called our attention to a novel pancreatic epithelial compartment which we have termed pancreatic duct glands (PDG) (Gastroenterology 2010). This work shows that PDG are a mucinous compartment with a distinct molecular signature, expressing many developmental genes believed to mark stem cell compartments. These PDG also undergo a Shh-mediated mucinous gastrointestinal metaplasia resembling certain features of pancreatic cancer precursor lesions. We propose that PDG provide a link between Shh, mucinous metaplasia and neoplasia.

B. Positions and Honors

Positions and Employment

2000-2001	Chief Surgical Resident, Assistant in Surgery, Massachusetts General Hospital
2001-2003	Assistant in Surgery, Surgical Service, Massachusetts General Hospital
2001-2004	Instructor in Surgery, Harvard Medical School
2003-2009	Assistant Surgeon, Surgical Service, Massachusetts General Hospital
2004-	Assistant Professor of Surgery, Harvard Medical School
2008-	Director, Pancreatic Biology Research Laboratory, Massachusetts General Hospital
2009-	Associate Visiting Surgeon, Surgery Service, Massachusetts General Hospital
2010-	Associate Professor of Surgery, Harvard Medical School
2014- (May 1)	Merle M. Musselman Centennial Professor of Surgery; Physician-in-Chief, Fred and Par
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2014- (May 1) Merle M. Musselman Centennial Professor of Surgery; Physician-in-Chief, Fred and Pamela Buffett Cancer Center; Chief, Division of Surgical Oncology, University of Nebraska Medical

Center, Omaha, Nebraska

Imaging Technology and Informatics Sanjiv "Sam" Gambhir, M.D./Ph.D., Chair

Peer Review Panel Members for Approval

- 1. James Basilion, Ph.D.
- 2. Kattesh Katti, Ph.D., D.Sc.
- 3. Jonathan Liu, Ph.D.
- 4. Robert Mattrey, M.D., Ph.D.
- 5. Duane Mitchell, M.D., Ph.D.
- 6. Shimon Weiss, D.Sc.
- 7. Anna Wu, Ph.D.
- 8. Kurt Zinn, Ph.D., D.V.M

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Basilion, James P.	POSITION TITE Professor	E	
eRA COMMONS USER NAME		ern Reserve Ui	3
JBASILION	School of M	ledicine and So	chool of Engineering
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
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	(п аррпсаые)		
University of Pennsylvania, Philadelphia, PA University of Texas Graduate School of Biomedical Sciences, Houston, TX	BA PhD	1984 1990	Biochemistry Molecular Pharmacology
NIH-NICHD, Cell Biology and Metabolism Branch NIH-NICHD, Cell Biology and Metabolism Branch	Staff Fellow IRTA	1990-1994 1994-1996	Iron Metabolism Iron Metabolism

A. Personal Statement

I am a molecular biologist/geneticist who has worked at CMIR/MGH with Dr. Weissleder on the development of imaging agents for several years and have gotten insights into the issues surrounding probe design and pharmacology, particularly with optical imaging agents. Seven years ago I moved to Case Western Reserve University to become faculty at both the Case Center for Imaging Research (Department of Radiology, Case Medical School) and at the Department of Biomedical Engineering (Case School of Engineering). I also codirect the Cancer Imaging Program for the Case Comprehensive Cancer Center and direct the NFCR Center for Molecular Imaging at Case. My academic research career has been devoted to the study and understanding of different diseases for the purposes of detecting them earlier and effecting surgical or other cures. Our lab studies imaging of parasitic disease, of various and numerous different human cancers, of different inflammatory responses, and we have developed technologies to identify and image molecular profiles of said diseases. The common thread to these studies has always been molecular imaging and development of novel imaging probes and paradigms to image these diseases non-invasively and in real time. For our research we utilize most imaging modalities including, MRI, PET, and optical imaging. For the past six years I have developed significant expertise within our laboratory in the development and implementation of FL-microscopic, optical, MR and PET imaging technologies, making my lab gualified to perform and manage these studies.

My research career has been hybrid consisting of experience in the biotech industry in addition to my academic position, which started in the late 1990s. My experience in industry has influenced my perspectives and my laboratory conducts approximately half translational research. My combined industrial and academic position provide me a unique perspective from which to review grants submitted to the CPRIT.

B. Employment, honors

1989	Thirteenth Annual Meeting of Texas Pharmacologists, First Place Award for Oral Presentation
1989	Consultant to Retinoid Division, Allergan Pharmaceutical, Irvine, CA
1990-1997	Consultant to Biotechnology Group, Janux Group Inc., Greenbelt, MD
1990-1994	Staff Fellow, National Institute of Health, NICHD, Bethesda, MD (Mentors: R.D. Klausner, J. Harford, T. Rouault)
1994-1996	Intramural Research Training Award (IRTA), National Institute of Health, NICHD, Bethesda, MD (Mentors: R.D. Klausner, T. Rouault)
1990-1996	Post Doctoral Fellowship, National Institutes of Health/NICHD; Dr. R. Klausner's lab

1996-1999	Senior Scientist, Variagenics, Inc., Cambridge, MA
1996-1999	Visiting Research Scientist, Harvard Medical School, Massachusetts General Hospital
1999-2005	Staff Scientist (Molecular Biology), CMIR, Massachusetts General Hospital
1999-2005	Assistant Professor of Radiology, Harvard Medical School
2000-2005	Co-Director, National Foundation for Cancer Research, Center for Molecular Analysis and Imaging, Massachusetts General Hospital/Harvard Medical School, Boston, MA
2005-2013	Associate Professor of Radiology, Case Western Reserve University Medical School
2005-2013	Associate Professor of Biomedical Engineering, Case Western Reserve University School of Engineering
2005-date	Director, National Foundation for Cancer Research Center for Molecular Imaging at Case Western Reserve University
2008-date	Co-founder and Consultant for Akrotome Imaging Inc.
2009-date	Co-Director Cancer Imaging Program, Case Comprehensive Cancer Center, Case Western Reserve University
2013-date	Professor of Radiology, Case Western Reserve University Medical School
2013-date	Professor of Biomedical Engineering, Case Western Reserve University School of Engineering
2013-date	Co-Director Case Center for Imaging Research, Case Western Reserve University
2013	Distinguished Investigator Award, Academy of Radiology Research
2014	Elected Fellow to the American Institute for Medical and Biomedical Engineering (AIMBE)

C. Selected Publications

Most relevant to the current application

- Cutter JL, Cohen NT, Wang J, Sloan AE, Cohen AR, Panneerselvam A, Schluchter M, Blum G, Bogyo M, Basilion JP. Topical application of activity-based probes for visualization of brain tumor tissue. PLoS One. 2012;7(3):e33060. Epub 2012 Mar 13. PubMed PMID: 22427947; PubMed Central PMCID: PMC3302795.
- 2. Cheng Y, Meyers JD, Agnes RS, Doane TL, Kenney ME, Broome AM, Burda C, **Basilion JP**. Addressing Brain Tumors with Targeted Gold Nanoparticles: A New Gold Standard for Hydrophobic Drug Delivery? Small. 2011 Jun 1. doi: 10.1002/smll.201100628. [Epub ahead of print] PubMed PMID: 21630446.
- Cheng Y, Meyers JD, Broome AM, Kenney ME, Basilion JP, Burda C. Deep penetration of a PDT drug into tumors by noncovalent drug-gold nanoparticle conjugates. J Am Chem Soc. 2011 Mar 2;133(8):2583-91. Epub 2011 Feb 4. PubMed PMID: 21294543; PubMed Central PMCID: PMC3056176.
- 4. Burden-Gulley SM, Qutaish MQ, Sullivant KE, Lu H, Wang J, Craig SE, **Basilion JP**, Wilson DL, Brady-Kalnay SM. Novel cryo-imaging of the glioma tumor microenvironment reveals migration and dispersal pathways in vivid three-dimensional detail. Cancer Res. 2011 Sep 1;71(17):5932-40. Epub 2011 Aug 23. PMCID: PMC3173511. (Image selected for Journal Cover).
- 5. **Basilion JP**, Agnes RS, Broome AM, Wang J, Verma A, Lavik K. An Optical Probe for Non-invasive Molecular Imaging of Orthotopic Brain Tumors Overexpressing Epidermal Growth Factor Receptor. (2012) Mol Cancer Ther. 2012 Jul 17.

Additional recent publications of importance to the field (in chronological order)

1. Weissleder R, Moore A, Mahmood U, Bhorade R, Benveniste H, Chiocca EA, Basilion JP. In vivo

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person DO NOT EXCEED FOUR PAGES

NAME	POSITION TITLE
Katti, Kattesh. V., PhD, DSC	Professor, Radiology; Professor, Physics; Professor of
eRA COMMONS USER NAME (credential, e.g., agency	Biological Engineering, Director, MU Nanoparticles
login)	Production Core Facility

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

1 07			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Karnataka University, Dharwad, India	B.S.	1977	Chemistry, Physics,
Mysore University, Mysore, India	MSc.Ed.	1979	Mathematics Chemistry, Science Education
Indian Institute of Science, Bangalore, India	Ph.D.	1984	Chemistry/Polymer
University of Gottingen, Humboldt Fellow, Germany	Postdoc	1987	Science Organic Met Chemistry, Catalysis
University of Alberta, Edmonton, Canada	Postdoc	1990	Organic Chemistry;
	Dag(II)	•	Organic Met Chemistry
Karnatak University, India	DSC(Hon)	2009	Nanomedicine/Green
Sam Higginbottom University, Allahabad, India	DSC (Hons)	2012	Nanotechnology

A. Personal Statement: I am the Margaret Proctor Mulligan Endowed Distinguished Professor of Medical Research, Curators' Professor of Radiology & Physics and Senior Research Scientist at the MU Research Reactor; Director of NCI funded Cancer nanotechnology Platform. I have proven experience as a singly principal investigator projects as well as in facilitating extensive collaborative efforts to drive large biomedical projects through interdisciplinary participant investigators with the overall goal of clinically translating basic sciences findings for clinical applications for ultimately treating human patients. My background and expertise in bioconjugation chemistry, pharmacokinetics, nanomedicine and radiopharmaceutical sciences have allowed me to provide leadership in the production, toxicology and comparative oncology aspects—all aimed at clinical translation of diagnostic and therpauetic agents based on radiopharmaceuticals, biocompatible nanoparticles or phytochemicals. I have been at the forefront of in the development of a plethora of biocompatible nanoparticles for the detection and treatment of cancer and bacterial infections. I have established a Nanoparticle Particle Core Facility, (NPCF), within the University of Missouri, which is the only on-campus production facility of its kind in the country. Specifically, I have discovered processes for the production of gold, palladium, and silver nanoparticles using biologically-friendly phytochemicals from Soy, Tea, Cinnamon, mangoes and a diverse range of medicinal plants and herbs. My research has garnered world-wide attention due to the biocompatibility and environmentally-friendly nature of this discovery. Typically, nanoparticles are produced using toxic synthetic chemicals, and researchers are worried about the in vivo toxic and environmental impacts of production methods. The elements and phytochemicals used in our green nanotechnology processes are naturally occurring non-toxic phytochemicals capable of transforming silver and gold salts into their corresponding nanoparticles. The NCI funded Cancer Nanotechnology Platform, the Nanoparticle Production Core Facility and the University of Missouri Research Reactor are extremely important research capacity infrastructures for our continued success in the application of engineered nanoparticles for biomedical applications. Currently three clinical nanomedicine technologies developed within my NIH/NCI funded programs are going through clinical translation; namely: (i) Prostate tumor therapy through 'non-seed' radioactive gold nanotherapeutic agent; (ii) single circulating tumor cell detection through photoacoustic techniques from human cancer cells; (iii) X ray therapy using targeted gold nanoparticles. I am the principla inventor on over 50 patents and published over 250 publications, reviews, book and chapters.

Pathway Toward Product Development and Commercialization: Over the last 25 years, I have been involved in various biomedical projects with a focus on new product development. Specifically, these projects include development of trimeric peptides, proteins, enzymes for use as biomaterials. I am the principal inventor on a patented technology that allows conversion of proteins/enzymes into their corresponding trimeric structures. I have pioneered the development of cancer diagnostic and therapy agents using radioisotopes, development of a gold-containing chemotherapeutic agent for prostate tumor therapy, and development of a chelate for applications in the treatment of Wilson's . I have also worked on projects to validate experimental drugs in collaboration with major pharmaceutical companies including Mallinckrodt Medicals St Louis, DuPont Merck Boston, Proctor Gamble Cincinnati, Upjohn Pharma Boston and Shasun Pharma India. My latest research involves the application of nanotechnology for diagnosis and therapy of cancer and various debilitating diseases. This nanomedicine project involves utility of target specific gold nanoparticles, incorporating receptor specific peptides, and various biomolecules, for diagnosis and therapy of cancers, osteo and rheumatoid arthritis. I have served as the principal/co-inventor in over 50 patents filed/issued in each of the above mentioned projects. I have provided leadership in establishing several start-up companies for commercialization of various biomedical products and have successfully raised capital from the federal and private investments.

B. Positions and Honors

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List in chronological order previous positions, concluding with the present position. List any honors. Include present membership on any Federal Government public advisory committee.

Positions:	
1990-1993	Research Assistant Professor, Dept of Radiology, School of Medicine, University of Missouri-Columbia (MU)
1990-1997	Research Scientist, Research Reactor, MU
1993-1996	Assistant Professor, Radiology, School of Medicine, MU
1996-2000	Associate Professor (Tenure), Radiology, School of Medicine, MU
1997-present	Senior Research Scientist, Research Reactor, MU
1999-present	Associate Director, Radiopharmaceutical Sciences Institute, MU
2000-2002	Associate Professor, Physics, MU
2002-present	Professor, Radiology and Physics, MU
2003-present	Director, Radiochemistry and Bioconjugation Core Facility, MU
2005-present	Director, Nanoparticles Production Core Facility, MU
2005-present	Director, NCI-Funded Cancer Nanotechnology Platform
2011-present	Professor of Biological Engineering
2012-present	Professor of Medical Pharmacology and Physiology
2013-present	Director, Institute of Green Nanotechnology
Honors:	
1985	Alexander von Humboldt Fellow, Gottingen, Germany
1995	Fellow of the Royal Society of Chemistry, London
2005	Gauss Professor, German/Gottingen Academy of Science
2007	Inducted as Fellow, St. Louis Academy of Science
2007	St Louis Academy of Science 2007 Outstanding Scientist Award
2008	Outstanding Missourian Award by Missouri House of Representatives
2008	Selected as One of '25 Most Influential Molecular Imaging Scientists' in the world by rt Image
2008	Margaret Proctor Mulligan Distinguished Professor of Medical Research
2009	Awarded Doctor of Science (DSC) Honorary Degree by Karnataka University, Dharwad, India
2009	Awarded Curator's Professorship, Highest Academic Status of the Univ. of Missouri System
2010	One of 10 Best Inventions of 2010 Award for a Green Nanotechnology Invention that involved the
	production of gold nanoparticles using phytochemicals in Cinnamon.
2011	Awarded University of Missouri System's Presidential Award for Economic Development
2012	Inducted as a 'Fellow of The Academy of Science', St Louis
2012	Awarded Doctor of Science (DSC) Honorary Degree from the Sam Higginbottom University of Agriculture, Technology and Sciences (SHIATS), India

2012 Elected as a Fellow of the American Association for the Advancement of Science (AAAS)

Committees:

2006-present Member, Indo-US Science & Technology Forum

2005-present Member, NIH/NCI Study Sections: R01/R21/SBIR Cancer Nanotechnology Special Emphasis Panels

(2005-present); Development Therapeutics Study Section/Special Panels (2008-present); SBIR Grants Study Section (2009-present); Ruth L. Kirschstein National Research Service Awards Review Panel

(2006-present)

C. Selected Peer-reviewed Publications (from over 250 peer reviewed publications, reviews and peer reviewed abstracts)

- 1. Nune SK, Chanda N, Shukla R, Katti K, Kulkarni RR, Thilakavathi S, Sieckman G, Kannan R, Katti KV. Green Nanotechnology from Tea: Phytochemicals in Tea as Building Blocks for production of Biocompatible Gold Nanoparticles. *J. Mater. Chem.*, *2009*;19: 2912-2920
- 2. N. Chanda, R. Shukla, K. V. Katti, R. Kannan. Gastrin Releasing Protein Receptor -Specific Gold Nanorods: Breast and Prostate Tumor-avid Nanovectors for Molecular Imaging. Nano Lett **2009**;9: 1798-1805.
- Fent GM, Casteel SW, Kim DY, Kannan R, Katti K, Chanda N, Katti K.V.; 2009, Biodistribution of maltose and gum arabic hybrid gold nanoparticles after intravenous injection in juvenile swine. Nanomedicine, **2009**, 5(2):128-35, PMID: 19480048.
- 4. Afrasiabi Z, Shukla R, Chanda N, Bhaskaran S, Upendran A, Zambre A, Katti KV, Kannan R. 2010, Nanoscale sensor design via in situ labeling of gold nanoparticles onto protein scaffolds. J Nanosci Nanotechnol. 2010, (2):719-25. PMID: 20352709.
- 5. Nripen Chanda, , Kattesh V. Katti, and Raghuraman Kannan et al; Bombesin Functionalized Gold Nanoparticles Show Cancer Receptor Specificity: Implications in Molecular Imaging and Therapy; Proceedings of the National Academy of Sciences (PNAS) **2010**, (107):8760-8765. PMID: 20410458
- 6. Viator JA, Gupta S, Goldschmidt BS, Bhattacharyya K, Kannan R, Shukla R, Dale PS, Boote E, **Katti KV**.; Enhanced detection of circulating melanoma cells using gold nanoparticles as photoacoustic contrasting agents; *Progress in Biomedical Optics and Imaging Proceedings of SPIE*, **2010**, vol. 7564,
- 7. Chanda N, Kan P, Watkinson LD, Shukla R, Zambre A, Carmack TL, Engelbrecht H, Lever JR, Katti K, Fent GM, Casteel SW, Smith CJ, Miller WH, Jurisson S, Boote E, Robertson JD, Cutler C, Dobrovolskaia M, Kannan R, Katti KV.; Radioactive gold nanoparticles in cancer therapy: therapeutic efficacy studies of (198)AuNP-GA nanoconstruct in prostate tumor-bearing mice. Nanomedicine 2010, (6):201-209. PMID: 19914401. (*Featured article on the journal's front page in April Issue*)
- 8. Boote E, Fent G, Kattumuri V, Casteel S, Katti K, Chanda N, Kannan R, Katti K, Churchill R. 2010, Gold nanoparticle contrast in a phantom and juvenile swine: models for molecular imaging of human organs using x-ray computed tomography. Acad Radiol. 2010, (4):410-7. PMID: 20207313.
- 9. Viator JA, Gupta S, Goldschmidt BS, Bhattacharyya K, Kannan R, Shukla R, Dale PS, Boote E, **Katti KV**. 2010, Detection of Gold Nanoparticle Enhanced Prostate Cancer Cells Using Photoacoustic Flowmetry with Optical Reflectance. 2010, J. Biomed. Nanotech. (6):1-5.
- Viator, J.A., Gupta, S., Goldschmidt, B.S., Bhattacharyya, K., Kannan, R., Shukla, R., Dale, P.S., Boote, E., Katti, K. Detection of gold nanoparticle enhanced melanoma cancer cells using photoacoustic flowmetry: *Lasers in Surgery and Medicine*, 2011, 43, 333-338.
- 11. McCormack DR, Bhattacharyya K, Kannan R, **Katti KV**, Viator J A. Enhanced Photoacoustic Detection of Melanoma Cells Using Gold Nanoparticles. *Lasers in Surgery and Medicine*, 2011, 43, 333-338.
- 12. N. Chanda, R. Shukla, A. Zambre, S. Mekapothula, R. R. Kulkarni, K. Katti, K. Bhattacharyya, G. M. Fent, S. W. Casteel, E. J. Boote, J. A. Viator A. Upendran, R. Kannan, and **K. V. Katti**: An Effective Strategy for the Synthesis of Biocompatible Gold Nanoparticles Using Cinnamon Phytochemicals for Phantom CT Imaging and Photoacoustic Detection of Cancerous Cells; *Pharm Res.*, 2011, 28, 279-291.
- 13. Kannan R, Zambre, A, Chanda N, Kulkarni R, Cutler C, Shukla R, Katti K, Upendran R, **Katti KV**. Functionalized Radioactive Gold Nanoparticles in Tumor Therapy. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2012**; vol. 4, no. 1, pp. 42–51,
- 14. Ravi Shukla, Nripen Chanda, Ajit Zambre, Anandhi Upendran, Kavita Katti, Cathy S Cutler, Charles Caldwell, Raghuraman Kannan, **Kattesh V Katti** and et.al; Laminin Receptor Specific Therapeutic Gold Nanoparticles (198 AuNP-EGCg) Show Efficacy in Treating Prostate Cancer; Proceedings of the National

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Liu, Jonathan T.C.	Assistant Professor of Biomedical Engineering
eRA COMMONS USER NAME	
LIU.JONATHAN	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Princeton University	B.S.E.	1995-1999	Mechanical Engineering
Stanford University	M.S.	1999-2000	Mechanical Engineering
Stanford University	Ph.D.	2000-2005	Mechanical Engineering &
			Laser Diagnostics
Stanford University	Postdoctoral	2005-2009	Biomedical Optics &
			Molecular Imaging

A. Personal Statement

The molecular biophotonics lab develops custom microscopes and endoscopic imaging devices, along with molecularly targeted contrast agents, for diagnosing diseases and for guiding therapy. In particular, we have developed large-scale and miniature dual-axis confocal microscopes, as well as molecularly targeted contrast agents, to enable deep optical-sectioning microscopy of tissues for early detection and surgical guidance. We are also developing spectral-imaging endoscopes, in conjunction with Raman-coded nanoparticle probes, for multiplexed molecular imaging of disease biomarkers. These projects leverage Dr. Liu's multidisciplinary expertise in mechanical engineering, spectroscopy, biomedical optics, molecular imaging, instrumentation, and preclinical/clinical translation.

B. Positions and Honors

Positions and Employment

2010- Assistant Professor, Dept. of Biomedical Engineering, SUNY Stony Brook

2009-2010 Instructor, Stanford University School of Medicine

Other Experience and Professional Memberships

Ad hoc reviewer: NIH / NCI special emphasis panel, SBIR contracts

2013 - 2014 Ad hoc reviewer: DSR study section, NIH / NIDCR special grants review committee

2007-present Ad hoc reviewer: Journal of Biomedical Optics, Optics Letters, Optics Express, Biomedical

Optics Express, Annals of Biomedical Engineering, IEEE Transactions of Biomedical Engineering, Journal of Visualized Experiments, Molecular Imaging and Biology, and PLOS

ONE.

2007 Ad hoc reviewer: NSF SBIR/STTR panel on imaging, Arlington, VA

2005-present Member, Society of Photo-Optical Instrumentation Engineers (SPIE); Optical Society of

America (OSA); Society for Molecular Imaging (SMI); Biomedical Engineering Society (BMES)

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2013	BME department outstanding teacher award
2009-2013	NIH K99/R00 "Pathway to Independence" Award (through the NIBIB)
2009	Best Oral Presentation Award, Center for Biomedical Imaging at Stanford (CBIS) symposium
2008	Gordon Research Conference on Lasers in Medicine and Biology: Travel Award and Panelist
2008	World Molecular Imaging Congress (WMIC): Travel Award and Invited Speaker

2007	Nominated by Stanford University for the Burroughs Wellcome Fund (BWF) Career Award at the
	Scientific Interface (2007)
2006-2008	NIH Loan Repayment Award for clinical researchers
2005-2008	Canary Foundation / American Cancer Society postdoctoral fellowship for early cancer detection
2004	AIAA Best Paper by the Ground Testing Technical Committee
2003	AIAA Foundation Wright Brothers Graduate Award
2003	Outstanding Paper Award, AIAA Ground Testing Technical Committee
1999-2002	NSF Graduate Fellowship Award
1999	Tau Beta Pi, Princeton University
1999	Phi Beta Kappa, Princeton University
1999	Sigma Xi Book Award, Princeton University

Sau-Hai Lam *58 Prize as the top graduate in mechanical engineering, Princeton University

C. Selected publications

1999

Peer-reviewed journals (selected)

- 1. Y. Wang, A. Khan, S.Y. Leigh, D. Wang, Y. Chen, D. Meza, and **J.T.C. Liu**, "Comprehensive spectral endoscopy of topically applied SERS nanoparticles in the rat esophagus," [manuscript under review].
- 2. S.Y. Leigh, Y. Chen, and **J.T.C. Liu**, "Modulated alignment dual-axis (MAD) confocal microscopy for deep optical sectioning in tissues, " *Biomed. Opt. Exp.* (2014) [in press].
- 3. Y. Wang, A. Khan, M. Som; D. Wang, Y. Chen, S.Y. Leigh, D. Meza; P.Z. McVeigh, B.C. Wilson, and **J.T.C. Liu**, "Rapid ratiometric biomarker detection *in vivo* with topically applied SERS nanoparticles," *Technology* (2014) [in press].
- J.T.C. Liu, D. Meza, and N. Sanai, "Trends in fluorescence image-guided surgery for gliomas," Neurosurgery (2014).
- 5. D. Wang, Y. Chen, Y. Wang, and **J.T.C. Liu**, "Comparison of line-scanned and point-scanned dual-axis confocal (DAC) microscope performance," *Opt. Lett.* 38, 5280-5283 (2013).
- 6. Y. Chen, and **J.T.C. Liu**, "Optimizing the performance of dual-axis confocal microscopes via Monte-Carlo scattering simulations and diffraction theory," *J. Biomed. Opt.*, 66006 (2013). [PMC3670619]
- C. Zavaleta, E. Garai, J.T.C. Liu, S. Sensarn, M.J. Mandella, D. Van de Sompel, S. Friedland, J. Van Dam, C.H. Contag, and S.S. Gambhir, "A Raman-based endoscopic strategy for multiplexed molecular imaging," *Proc. Natl. Acad. Sci. U.S.A.*, (2013). [PMC3690865]
- 8. S.Y. Leigh, M. Som, and **J.T.C. Liu**, "Method for assessing the reliability of molecular diagnostics based on multiplexed Raman-coded nanoparticles," *PLoS ONE* 8, e62084 (2013). [PMC3631148]
- 9. D. Wang, S.Y. Leigh, Y. Chen, H. Haeberle, C.H. Contag, and **J.T.C. Liu,** "Microscopic delineation of medulloblastoma margins in a transgenic mouse model using a topically applied VEGFR-1 probe," *Transl. Oncol.* 5, 408-414 (2012). [PMC3542836] *selected as cover article*
- 10. Y. Chen, D. Wang, and **J.T.C. Liu**, "Assessing the tissue-imaging performance of confocal microscope architectures via Monte-Carlo scattering simulations," *Opt. Lett.* 37, 4495-4497 (2012) [PMC3756678].
- 11. D. Wang, Y. Chen, and **J.T.C. Liu**, "A liquid optical phantom with tissue-like heterogeneities for confocal microscopy," *Biomed. Opt. Exp.* 12, 3153-3160 (2012). [PMC3521309]
- 12. S.Y. Leigh, N.O. Loewke, D. Wang, Y. Chen, and **J.T.C. Liu**, "Multi-color miniature dual-axis confocal microscope for *in vivo* point-of-care pathology," *Opt. Lett.* 37, 2430-2432 (2012). [PMC3804107]
- 13. H. Haeberle, J.T. Dudley, **J.T.C. Liu**, A. J. Butte, and C.H. Contag, "Identification of cell surface targets through meta-analysis of microarray data," *Neoplasia* 14, 666-669 (2012). [PMC3421962]
- 14. W. Piyawattanametha, H. Ra, Z. Qiu, S. Friedland, **J.T.C. Liu**, K. Loewke, G.S. Kino, O. Solgaard, T.D. Wang, M.J. Mandella, and C.H. Contag, "In vivo near-infrared dual-axis confocal microendoscopy in the human lower gastrointestinal tract," *J. Biomed. Opt.* 17, 021102 (2012). [PMC3380818]

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Robert F. Mattrey, M.D	POSITION TITLE Professor of Radiology, Univ. of CA, San Diego
eRA COMMONS USER NAME (credential, e.g., agency login): mattrey	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
State University of New York at Buffalo	B.S.	1971	Electrical Engineering
State University of New York at Buffalo	M.S.E.E.	1973	Electrical Engineering
State University of New York at Buffalo	M.D.	1978	Medicine
University of California, San Diego	Residency	1978–1981	Radiology
University of California, San Diego	Fellowship	1981–1982	CT/US/Interventional
Harvard School of Public Health	15 credit hrs	1997	MPH

A. Personal Statement.

I am a clinician/scientist in Radiology with clinical expertise in Body Imaging including MRI, CT, and ultrasound and research expertise in contrast media and instrumentation with special interest in ultrasound. I have had the opportunity to translate contrast media for CT, MRI, and ultrasound imaging. I serve as the co-PI on a training grant in nanotechnology and I am the director of the 5-year Radiology Clinician-Scientist Program that is supported by a T32. I am also the Director of the Molecular imaging Program and as such I collaborate with many investigators in the School of Medicine and Campus on ultrasound and MRI projects. My technical background and interests have allowed me to direct my research efforts towards the interface between medicine and physical sciences. My motivation is to improve what we do to provide faster, cheaper, more accurate, efficient and convenient technologies to improve patient care.

B. Positions and Honors.

Positions and Employment:

Academic Positions (University of California, San Diego, San Diego, CA, USA).

1982–1988 Assistant Professor, Department of Radiology 1988–1991 Associate Professor, Department of Radiology 1991–2003 Professor of Radiology, Department of Radiology

2003-Pres. Professor, Department of Radiology

Research and Administrative Positions (University of California, San Diego, San Diego, CA, USA):

1985–1990 Director, Magnetic Resonance Research1985–2005 Chief, Body MRI Section, UCSD Medical Center

1990–Pres. Director, Five-Year Residency Program, Department of Radiology 1996–Pres. Vice Chairman & Director of Research, Department of Radiology

2001-Pres. Director, In vivo Cancer and Molecular Imaging Center, Moores UCSD Cancer Center

Honors and Awards:

1982	Association of University Radiologists, Memorial Award. Mattrey RF , Higgins CB. Detection of
	regional myocardial dysfunction during ischemia with computerized tomography: Documentation
	and physiologic basis. Invest Radiol. 1982; 17:329–335.
1984-1987	NCI Physician-Investigator Development Award Program (KO8-CA00940)
1988-1993	NCI Research Career Development Award (KO8-CA01319)

1990 Association of University Radiologists, Memorial Award. Coley BD, Mattrey RF, Mitten RM,

Peterson T. The physiologic basis of the radiodense renal medulla after the administration of

blood pool contrast agent, PFOB. Invest Radiol. 1990; 25:1287–1293.

1996 European and American Society of Uroradiology, First Place Award. Mattrey RF, Girard MS.

Detection of partial renal infarction with ultrasound contrast agents.

2004 Association of University Radiologists, Herbert Stauffer Award. Lucidarme O, Nguyen T, Kono

Y, Corbeil J, Choi SH, Varner J, **Mattrey RF**. Model for ultrasound contrast research:

Exploratory study. *Acad Radiol.* 2004, 11:4–12.

2007 Association of University Radiologists Gold Medal Award

2007 International Contrast Media Research Harry Fisher Lifetime Achievement Award

2014 Society of Abdominal Radiology Lifetime Achievement Award

Professional Memberships:

American Institute of Ultrasound in Medicine Association of University Radiologists Radiologic Society of North America Society of Abdominal Radiology Society of Magnetic Resonance in Medicine Society of Molecular Imaging

C. Highly selected from over 125 Peer-reviewed publications (in chronological order).

- Mattrey RF, Scheible FW, Gosink BB, Leopold GR, Long DM, Higgins CB. Perfluorooctyl bromide: A liver\spleen-specific and a tumor-imaging ultrasound contrast material. *Radiology*. 1982; 145:759–762. (PMID: 7146409)
- Mattrey RF, Strich G, Shelton RE, Gosink BB, Leopold GR, Lee T, Forsythe J. Perfluorochemicals as US contrast agents for tumor imaging and hepatosplenography: Preliminary clinical results. *Radiology*. 1987; 163:339–343. (PMID: 3550878)
- 3. Baker LL, Hajek PC, Burkhard TK, Dicapua L, Leopold GR, Hesselink JR, **Mattrey RF**. MR imaging of the scrotum: normal anatomy. *Radiology*, 1987; 163(1): p. 89-92. (PMID: 3823465)
- 4. Baker LL, Hajek PC, Burkhard TK, Dicapua L, Landa HM, Leopold GR, Hesselink JR, **Mattrey RF**. MR imaging of the scrotum: pathologic conditions. *Radiology*, 1987; 163(1): p. 93-8. (PMID: 3823466)
- Mattrey RF, Hajek PC, Gylys-Morin VM, Baker LL, Martin J, Long DC, Long DM. Perfluorochemicals as gastrointestinal contrast agents for MR imaging: preliminary studies in rats and humans. AJR Am J Roentgenol, 1987; 148(6): p. 1259-63. (PMID: 3495156)
- 6. **Mattrey RF**, Trambert MA, Brown JJ, Young SW, Bruneton JN, Wesby GE, Balsara ZN. Perflubron as an oral contrast agent for MR imaging: Results of a phase III clinical trial. *Radiology*. 1994; 191: 841–848. (PMID: 8184076)
- 7. Kono Y, Lucidarme O, Choi SH, Rose SC, Hassanein TI, Alpert E, **Mattrey RF**. Contrast-enhanced Ultrasound as a Predictor of Treatment Efficacy within 2 Weeks after Transarterial Chemoembolization of Hepatocellular Carcinoma. *J Vasc Interv Radiol.* 2007; 18:57-65.
- 8. Simberg D, **Mattrey RF**. Targeting of perfluorocarbon microbubbles to selective populations of circulating blood cells. *Journal of drug targeting*. 2009, 17:392-8. (PMID: 19505207)
- 9. Girard OM, Du J, Agemy L, Sugahara KN, Kotamraju VR, Ruoslahti E, Bydder GM, **Mattrey RF**. Optimization of iron oxide nanoparticle detection using ultrashort echo time pulse sequences: Comparison of T(1), T(2)*, and synergistic T(1) T(2)* contrast mechanisms. *Magn Reson Med* 2011; Jun; 65:1649-60. (PMID: 21305596) (Made Journal Cover)
- Girard OM, Ramirez R, McCarty S, Mattrey RF. Toward absolute quantification of iron oxide nanoparticles as well as cell internalized fraction using multiparametric MRI. Contrast Media Mol Imaging, 2012; 7(4): p. 411-7. (PMID: 22649047)
- 11. Itani M, **Mattrey RF**. The Effect of Inhaled Gases on Ultrasound Contrast Agent Longevity In Vivo. *Mol Imaging Biol* 2012; 14: 40-6. (PMID: 21365328)
- 12. Nakatsuka MA, **Mattrey RF**, Esener SC, Cha JN, Goodwin AP. Aptamer-Crosslinked Microbubbles: Smart Contrast Agents for Thrombin-Activated Ultrasound Imaging. *Adv Mater.* 2012 Nov; 24 (45): 6010-6.
- 13. Newton IG, Plaisted WC, Messina-Graham S, Abrahamsson Schairer AE, Shih AY, Snyder EY, Jamieson CH, **Mattrey RF**. Optical imaging of progenitor cell homing to patient-derived tumors. *Contrast Media Mol Imaging*. 2012 Nov; 7 (6): 525-36 (PMID 22991319)
- Cui, W, Tavri, S, Benchimol, MJ, Itani, M, Olson, ES, Zhang, H, Decyk, M, Ramirez, RG, Barback, CV, Kono, Y, Mattrey, RF. Neural progenitor cells labeling with microbubble contrast agent for ultrasound imaging in vivo. *Biomaterials*, 2013; 34: 4926-35. (PMID: 23578557)
- 15. Olson ES, Orozco J, Wu CZ, Malone CD, Yi BH, Gao W, Eghtedari M, Wang J, **Mattrey RF**. Toward in vivo Detection of Hydrogen Peroxide with Ultrasound Molecular Imaging. Biomaterials, 2013; 34(35): p. 8918-24. (PMID: 23958028)

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME Mitchell, Duane Anthony, M.D., Ph.D. eRA COMMONS USER NAME (credential, e.g., agency login)	POSITION TITLE Phyllis Kottler Friedman Professor in Neurosurgery Associate Professor of Neuroscience, Pathology, Immunology, and Laboratory Medicine
mitch016	337

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Rutgers College, New Brunswick, N.J.	B.A.	May, 1993	Biological Sciences
Duke University Medical School, Durham, N.C.	M.D.	May, 2001	Medicine
Duke University Graduate School, Durham, N.C.	Ph.D.	May, 2001	Immunology

A. Personal Statement

Duane A. Mitchell, M.D., Ph.D. is the Phyllis Kottler Friedman Professor of Neurosurgery, University of Florida Endowed Cancer Research Chair and the Director of University of Florida Brain Tumor Immunotherapy Program (UFBTIP). He also functions as Co-Director of the Preston A. Wells, Jr. Center for Brain Tumor Therapy in collaboration with Dr. William Friedman, Chair of Neurosurgery. Dr. Mitchell was recently recruited from Duke University where he served as Director of Preclinical Research within the Preston Robert Tisch Brain Tumor Center at Duke and Associate Director of the Duke Brain Tumor Immunotherapy Program. His recruitment was made possible by a \$20 million investment in the expansion of the brain tumor center at University of Florida, and Dr. Mitchell and his team of researchers have established a comprehensive translational neuro-oncology program. He has extensive translational research experience involving the immunologic treatment of cancer, having served as Principal Investigator on seven FDA-approved Phase I/II clinical trials involving pediatric and adult patients with malignant brain tumors. His expertise in translational research has been sought out nationally as an advisor to the National Cancer Institute's Alliance for Nanotechnology in Cancer, as an External Advisory Board member for the California Institute of Regenerative Medicine, as an appointed member of the Immunotherapy Subcommittee for the NCI Brain Malignancy Steering Committee, and as Chair of NCI Pediatric Brain Tumor Consortium (PBTC) Immunotherapy Committee. Dr. Mitchell is primary inventor and co-inventor on a number of issued and pending patent applications related to the immunologic treatment of brain cancer and a leader of many pioneering and innovative research programs. His current research focus is on adoptive cellular therapy and RNA-based nanoparticle vaccines targeting pediatric and adult brain tumors. He currently serves as a permanent member on NIH study section (Cancer Immunotherapy and Immunopathology) and has served as an ad hoc study section reviewer and special emphasis panel study section member on several NIH review boards, as well as reviewer for several international grant review boards.

B. Positions and Honors Positions and Employment

1993-2001 Medical Scientist Training Program (MD/PhD) Candidate, Duke Unive	ersity
2001-2003 Resident (Pathology), Duke University Medical Center	
2003-2005 Research Associate, Duke University Medical Center	
2005-2013 Assistant Professor of Surgery (Neurosurgery)	
2008-2013 Director of Preclinical Research, Preston Robert Tisch Brain Tumor C	enter at Duke
2008-2013 Associate Director, Duke Brain Tumor Immunotherapy Program	

2013-present	Associate Professor of Neurosurgery and Neuroscience, University of Florida
2013-present	Co-Director, Preston A. Wells, Jr. Center for Brain Tumor Therapy at University of Florida
2013-present	Director, University of Florida Brain Tumor Immunotherapy Program
2013-present	University of Florida Endowed Cancer Research Chair
2013-present	Phyllis Kottler Professor (Department of Neurosurgery)

Other Experience and Professional Memberships

	District In Procession in Memberships
2006-2010	Principal Investigator, Phase I/II Clinical Trial: "Anti-Tumor Immunotherapy Targeted Against Cytomegalovirus in Patients with Newly Diagnosed Glioblastoma Multiforme during Recovery
	from Therapeutic Temozolomide-induced Lymphopenia". (ATTAC Trial: FDA-IND-BB-12839)
2007-2010	Principal Investigator, Phase I Clinical Trial: "REGULATory T-Cell Inhibition with Daclizumab
	(Zenapax®) during Recovery from Therapeutic Temozolomide-induced Lymphopenia during
	Antitumor Immunotherapy Targeted against <i>Cytomegalovirus</i> in Patients with Newly-Diagnosed
	Glioblastoma Multiforme". (REGULATe Trial: FDA-IND-BB-12839)
2008-2013	Member, Duke University Institutional Review Board
2008-present	Principal Investigator, Phase I Clinical Trial: "Recurrent GBM Stem cell Tumor Amplified
	RNA Immunotherapy Trial". (RE-START: FDA-IND-BB-13630)
2008-present	Principal Investigator, Phase I/II Clinical Trial: "Evaluation of Recovery from Drug-Induced
	lymphopenia using T-Cell Adoptive Transfer". (ERADICATe Trial: FDA-IND-BB-13240)
2009-present	Principal Investigator, Phase I/II Clinical Trial: "Recurrent Medulloblastoma and Primitive
	Neuroectodermal Tumor Adoptive T Cell Therapy during Recovery from Myeloablative
	Chemotherapy and Hematopoietic Stem Cell Transplantation". (Re-MATCH Trial: FDA IND-BB-14058)
2009-2011	Consultant, NCI Alliance on Nanotechnology in Cancer
2011-2013	Member, Duke Cancer Institute Office of Health Equity Advisory Council
2011-present	Member, External Advisory Board, California Institute of Regenerative Medicine, City of Hope
	Medical Center
2012-2013	Member, Professionalism Council, Duke University Medical Center
2012-2013	Member, Duke Cancer Institute Safety and Oversight Committee
2012-present	
2013-present	
2013-2019	Member, Cancer Immunopathology and Immunotherapy NIH Study Section

Honors and Awards

1989-1993	James Dickson Carr Scholar
1993	Henry Rutgers Honors Scholar
1993-2001	Medical Scientist Training Program (MD/PhD) grant recipient
2001	Association of Pathology Chairs Honor Society
2003	Duke Comprehensive Cancer Center Research Award
2003	ABCC Young Investigators' Award
2004	Billy Grey Chair of Research Award (The Brain Tumor Society)
2005	Brain Cancer SPORE Career Development Award
2007	Billy Grey Chair of Research Award (The Brain Tumor Society)
2007	ABCC Developmental Research Award

Selected peer-reviewed publications in chronological order

- 1. Nair SK, De Leon G, Boczkowski D, Schmittling R, Xie W, Staats J, Liu R, Johnson LA, Weinhold K, Arche GEr, Sampson JH, **Mitchell DA**. Recognition and killing of autologous, primary glioblastoma tumor cells by human cytomegalovirus pp65-specific cytotoxic T cells. Clin Can Res epub March 2014.
- 2. Choi BD, Gedeon PC, Herndon JE 2nd, Archer GE, Reap EA, Sanchez-Perez L, **Mitchell DA**, Bigner DD, Sampson JH. Human regulatory T cells kill tumor cells through granzyme-dependent cytotoxicity upon retargeting with a bispecific antibody. Can Immunol Res. 2013;1(3):163. PMID: 24570975

Provide the following information for the Senior/key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Shimon Weiss	Professor of	POSITION TITLE Professor of Chemistry and Biochemistry Professor of Physiology			
eRA COMMONS USER NAME (credential, e.g., agency login) weiss22	Professor o				
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)					
, , ,					
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY		
		MM/YY 07/1984	FIELD OF STUDY Electrical Engineering		

A. Personal Statement

My lab has been working on ultrasensitive single molecule spectroscopy and imaging methods, and on the development of quantum dots as probes for molecular imaging. Our work on quantum dots (QDs) has led to the founding of Quantum Dot Corporation (later acquired by Invitrogen Inc., now Life Technologies). In recent years my team has continued to develop QDs technologies such as novel peptide-coating technology, unique conjugation chemistries and various approaches for specific targeting of QDs to cellular proteins. My lab has also developed a novel superresolution imaging method dubbed SOFI and a variety of novel detectors for advanced, high throughput, single molecule spectroscopy and imaging. More recently, we developed and measured voltage sensing nanorods (vsNRs). My unique background in solid state physics, biology, and chemistry uniquely qualifies me to perform the work proposed here.

B. Positions and Honors

Positions	and Emi	ployment

1989-1990	Postdoc	AT&T Bell Laboratories
1990-2001	Staff Scientist	Materials Sciences Division, LBNL
1998	Founding Scientist	Quantum Dot Corporation, Hayward, CA
1998-2001	Staff Scientist	Physical BioSciences Division, LBNL
1998-2002	Scientific Advisory Board	Quantum Dot Corporation, Hayward, CA
2001-to date	Professor of Chemistry	
	& Biochemistry	UCLA
2001-to date	Professor of Physiology	UCLA
2001-	Full Member	California Nanosystems Institute, UCLA
2002-	Full Member	Molecular Biology Institute, UCLA
2002-	SAB	Molecular Foundry, LBNL
2003-	Visiting Professor	EECS, Technion; Chemistry, Weizmann Inst.
2005-2008	SAB	Lawrence Livermore National Laboratory, Livermore, CA
2007-	SAB	BioQuant, ViroQuant, CellNetworks, University of Heidelberg
2008-2011	Consultant	Lifetech (Invitrogen) Corp.
2011-to date	Editorial board	Optical Nanoscopy

Honors

Rothschild Fellowship for post-docs, 1989/1990; Outstanding Performance Award, Lawrence Berkeley National Laboratory, 1993; Fellow of the Optical Society of America, 1999; The Michael and Kate Barany Biophysical Society Award, 2001; 2006 Rank Prize, Royal College of Physicians, London; The Erna and Jakob Michael

Program Director/Principal Investigator (Last, First, Middle): Weiss, Shimon

Visiting Professor, Weizmann Institute of Science; The Dean Willard Chair in Chemistry and Biochemistry, 2009; The Humboldt Research Award, 2012.

C. Selected Peer-reviewed Publications (Selected from 142 peer-reviewed publications; 28 issued & 26 pending patents)

Most relevant to the current application

- 1. Park, K.; Deutsch, Z.; Li, J.J.; Oron, D.; Weiss, S.; "Single Molecule Quantum Confined Stark Effect Measurements of Semiconductor Nanoparticles at Room Temperature", *ACS Nano*, **2012**, 6, 10013–10023. PMCID:PMC3507316.
- 2. Michalet, X., Pinaud, F.F., Bentolila, L.A., Tsay, J.M., Doose, S., Li, J.J., Sundaresan, G., Wu, A.M., Gambhir, S.S. & Weiss, S. Quantum dots for live cells and in vivo imaging and diagnostics. *Science*, **2005**, 307, 538-44. PMID: 15681376 PMCID: PMC1201471
- 3. Pinaud, F.; King, D.; Moore, H. P.; Weiss, S., Bioactivation and Cell Targeting of Semiconductor CdSe/ZnS Nanocrystals with Phytochelatin-related Peptides. *J. Am. Chem. Soc.* **2004**, *126*, 6115-6123. PMID:15137777
- 4. Schipper, M.L., Iyer, G., Koh, A.L., Cheng, Z., Ebenstein, Y., Aharoni, A., Keren, S., Bentolila, L.A., Li, J., Rao, J., Chen, X., Banin, U., Wu, A.M., Sinclair, R., Weiss, S., Gambhir, S.S., "Particle Size, Surface Coating, and Pegylation Influence the Biodistribution of Quantum Dots in Living Mice", *Small*, **2009**, 5, 126–34; PMID: 19051182 PMCID: PMC3084659
- 5. Iyer, G.; Michalet, X.; Pinaud, F.F.; Matyas, C.E.; Chang, Y.P.; Payne, G.; Weiss, S.; "High Affinity scFv-hapten Pair as a Tool for Quantum Dot Labeling and Tracking of Single Proteins in Live Cells", *Nano Lett.*, **2008**, 8, 4618-23; PMID:19053789 PMCID:PMC3084663

Additional recent publications of importance to the field (in chronological order)

- 1. Bruchez, M., Jr., Moronne, M., Gin, P., Weiss, S. & Alivisatos, A.P. Semiconductor nanocrystals as fluorescent biological labels. *Science*, **1998**, 281, 2013-6. PMID: 9748157.
- 2. Ha, T.; Ting, A. Y.; Liang, J.; Caldwell, W. B.; Deniz, A. A.; Chemla, D. S.; Schultz, P. G.; Weiss, S., Single-molecule fluorescence spectroscopy of enzyme conformational dynamics and cleavage mechanism. *Proc Natl Acad Sci U S A* **1999**, *96*, (3), 893-8. PMID: 9927664 PMCID: PMC 15321
- 3. Weiss, S., Fluorescence spectroscopy of single biomolecules. Science 1999, 283, (5408), 1676-83.
- 4. Weiss, S., Measuring conformational dynamics of biomolecules by single molecule fluorescence spectroscopy. *Nat Struct Biol* **2000**,7,(9), 724-9, PMID: 10966638.
- 5. Schipper, M.L.; Cheng, Z.; Lee, S.W.; Keren, S.; Bentolila, L.A.; Sundaresan G.; Iyer, G.; Gheysens,O.; Ebenstein, Y.; Li, J.; Rao, J.; Chen, X.; Wu, A.M.; Weiss, S.; Gambhir, S.S.; "MicroPET-Based Biodistribution of Quantum Dots in Living Mice", *J. of Nuclear Medicine*, **2007**; *48*, 1511-1518. PMCID: PMC2299220
- 6. Li, J.J.; Tsay, J.; Michalet, X.; Weiss, S., "Wave-function engineering: from quantum wells to near-infrared type-II colloidal quantum dots synthesized by layer-by-layer colloidal epitaxy", *Chemical Physics*, **2005**, 318, 82–90.
- 7. Dertinger, T.; Colyer, R.; Iyer, G.; Weiss, S.; Enderlein, J.; "Fast, background-free, 3D superresolution optical fluctuation imaging (SOFI)", *Proc Natl Acad Sci*, **2009**, 106, 22287-92, PMID:20018714 PMCID:PMC 2799731
- 8. Iyer, G.; Pinaud, F.; Xu, J.; Ebenstein, Y.; Li, J.; Dahan, M.; Weiss, S.; "Aromatic Aldehyde and Hydrazine Activated Peptide Coated Quantum Dots for Easy Bioconjugation and Live Cell Imaging", *Bioconjugation Chemistry*, **2011**, 22, 1006–1011. PMID: 21553893, PMCID: PMC3116077.
- 9. Xu, J.; Ruchala, P.; Ebenstain, Y.; Li, J.J.; Weiss, S.; "Stable, compact, and bright biofunctional Quantum Dots with improved peptide coating", *J. Phys. Chem. B*, **2012**, 116, 11370–11378. PMID:22920542 PMCID:PMC3470653
- Ebenstein, Y.; Gassman, N.R.; Antelman, J.; Kim, Y.; Kim, S.; Ho, S.O.; Samuel, R.; Michalet, X.; Weiss, S.; "Lighting up Individual DNA Binding Proteins with Quantum Dots", Nano Lett., 2009, 9, 1598–1603. PMID:1920670 PMCID: PMC 3084662

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Wu, Anna M.	Professor , Molecular & Medical Pharmacology
eRA COMMONS USER NAME (credential, e.g., agency login) WUAM22	Professor, Pathology & Laboratory Medicine

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

		_	
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Harvard University, Cambridge, MA	BA	06/75	Biochemistry
Yale University, New Haven, CT	PhD	12/79	Mol. Biophys. Biochem.
Yale University, New Haven, CT	Postdoc	06/82	Mol. Bio. & Hum. Gen.
University of California, San Francisco, CA	Postdoc	06/84	Biochem. & Biophys.

A. Positions and Honors

2009-

Positions and Employment

Assistant Research Scientist, Dept. of Molecular Biochemistry, Beckman Res. Inst. of the City of
Hope, Duarte, CA.
Assoc. Res. Sci., Dept. of Molecular Biology, Beckman Res. Inst. of the City of Hope
Visiting Associate Professor, Crump Institute for Biological Imaging, Dept. of Molecular and
Medical Pharmacology, UCLA School of Medicine, Los Angeles, CA (sabbatical)
Associate Professor of Molecular Biology, Beckman Res. Inst. of the City of Hope, Duarte, CA
Associate Professor, Crump Institute for Molecular Imaging, Dept. of Molecular and Medical
Pharmacology, Geffen School of Medicine at UCLA, Los Angeles, CA
Member, Jonsson Comprehensive Cancer Center, Geffen School of Medicine at UCLA;
Director, Cancer Molecular Imaging Program (2006 - present)
Professor, Dept. of Molecular and Medical Pharmacology, Geffen School of Medicine at UCLA
Professor, Dept. of Pathology and Laboratory Medicine, Geffen School of Medicine at UCLA
Member, California Nanosystems Institute, UCLA, Los Angeles, CA
Vice Chair, Dept. of Molecular and Medical Pharmacology, Geffen School of Medicine at UCLA

Other Experience and Professional Memberships

ence and Froiessional Memberships
Associate Editor, Molecular Imaging and Biology
Editorial Advisory Board, Bioconjugate Chemistry
Editorial Board, Protein Engineering Design & Selection
Editorial Board, Cancer Biotherapy & Radiopharmaceuticals
Grant review panel, American Heart Assn. L.A. Affiliate
Grant review panels, US Army Breast Cancer Research Program (Molecular Biology, Genetics)
Grant review panels, US Department of Energy (Nuclear Medicine, Targeted Cell Therapy)
California Breast Cancer Research Council; elected Council Chair, 2002-2003
Grant review panels, National Institutes of Health (ad hoc, various, including Program Project
grants, ICMIC, Bioengineering Research Partnerships, ARRA, SBIR, and other Special
Emphasis Panels)
Department of Defense Breast Cancer Research Program Integration Panel (ad hoc)
NIH MEDI-A review panel (ad hoc)
NIH CMIP review panel (Clinical Molecular Imaging and Probe Development)

2012-2013 President-Elect, World Molecular Imaging Society

Interfaces study section member, Cancer Research and Prevention Institute of Texas

2013- President, World Molecular Imaging Society

Honors

1970 Brown-Hazen Summer Fellowship,
 1974 Dreyfus Foundation Summer Fellowship
 1982-1984 Leukemia Society Special Fellowship,

1997 Teaching Award, Project LEAD, National Breast Cancer Coalition

B. Selected peer-reviewed publications (past five years)

- 1. Kenanova, V.E., Barat, B., Olafsen, T., Chatziioannou, A., Herschman, H.R., Braun, J., and Wu, A.M. (2009) Recombinant carcinoembryonic antigen as a reporter gene for molecular imaging. *Eur. J. Nucl. Med. Molec. Imag.* 36:104-114.
- 2. Wu, A.M. (2009) Antibodies and Antimatter: The resurgence of immunoPET. J. Nuc. Med. 50:2-5.
- 3. Schipper, M.L., Iyer, G., Koh, A.L., Cheng, Z, Ebenstein, Y., Ahroni, A., Keren, S., Bentolilla, L., Li, J., Rao, J., Chen, X., Banin, U., Wu, A.M., Sinclair, R., Weiss, S., and Gambhir, S.S. (2009) Particle size, surface coating, and PEGylation influence the biodistribution of quantum dots in living mice. *Small*, 5:126-134.
- 4. Olafsen, T., Betting, D., Kenanova, V.E., Raubitschek, A.A., Timmerman, J.M. and Wu, A.M. (2009) Recombinant anti-CD20 antibody fragments for small-animal PET imaging of B-cell lymphoma xenografts, J. Nucl. Med., 50:1500-1508.
- 5. Vaidyanathan, G., Jestin, E., Olafsen, T., Wu, A.M. and Zalutsky, M. Evaluation of an anti-p185^{HER2} (scFv-C_H2-C_H3)₂ fragment following radioiodination using two different residualizing labels: SGMIB and IB-Mal-D-GEK. (2009) *Nucl. Med. Biol.* 36:671-680.
- 6. Barat, B., Sirk, S., McCabe, K., Li, J., Koh, A.L., Lepin, E., Olafsen, T., Gambhir, S.S., Weiss, S., and Wu, A.M. (2009) Cys-diabody quantum dot conjugates (immunoQdots) for cancer marker detection, *Bioconj. Chem.* 20:1474-1481.
- 7. Afshar, S., Olafsen, T., Wu, A.M., and Morrison, S.L. (2009) Characterization of an engineered human purine nucleoside phosphorylase fused to an anti-HER2/neu single chain Fv for use in ADEPT. *J. Exp. Clin. Canc. Res.* 28:147.
- 8. Frank, R., Edmiston, M., Kendall, S.E., Najbauer, J., Cheung, C.-W., Kassa, T., Metz, M.Z., Kim, S.U., Glackin, C., Wu, A.M., Yazaki, P.J., and Aboody, K. (2009) Neural stem cells as a novel platform for tumor-specific delivery of therapeutic antibodies. *PloS ONE*, 4:e8314.
- 9. Olafsen, T., Sirk, S., Betting, D., Kenanova, V.E., Bauer, K., Ladno, W., Raubitschek, A.A., Timmerman, J.M., and Wu, A.M. (2010) ImmunoPET imaging of B-cell lymphoma using ¹²⁴I-anti-CD20 scFv dimers (diabodies). *Prot. Eng. Des. Sel.*, 23:243-249.
- 10. Olafsen, T. and Wu, A.M. (2010) Antibody vectors for imaging. Seminars in Nuclear Medicine 40:167-181.
- 11. Lepin, E.J., Leyton, J.V., Zhou, Y., Olafsen, T, Hahm, S., Marks, J.D., Reiter, R.E., and Wu, A.M. (2010) An affinity matured minibody for PET imaging of prostate stem cell antigen (PSCA)-expressing tumors. Eur. J. Nucl. Med. Mol. Imaging., 37:1529-1538.
- 12. McCabe, K.E. and Wu, A.M. (2010) Positive Progress in ImmunoPET Not Just a Coincidence. *Cancer Biother. Radiopharm.* 25:253-261.
- 13. Wong, J.Y.C., Somlo, G., Yamauchi, D., Williams, L.E., Wu, A.M., Yazaki, P.J., Shively, J.E., Colcher, D., and Raubitschek, A. (2010) A pretherapy biodistribution and dosimetry study of Indium-111 radiolabeled trastuzumab in patients with HER2 overexpressing breast cancer. Canc. Biother. Radiopharm. 25:387-394.
- 14. Barat, B., Kenanova, V., Olafsen, T., and Wu, A.M. (2011) Evaluation of two internalizing carcinoembryonic antigen reporter genes for molecular imaging. *Mol. Imag. Biol.* 13:526-535.
- 15. Kenanova, V.E., Olafsen, T., Salazar, F., Knowles, S., Williams, L.E., and Wu, A.M. (2010) Tuning the serum persistence of of human serum albumin domain III fusion proteins. *Prot. Eng. Des. Sel.* 23:789-798.
- 16. Olafsen, T., Young, S.G., Davies, B.S.J., Kenanova, V.E., Voss, C., Young, G., Wong, K.-P., Barnes, R.H., Tu, Y., Weinstein, M.M., Nobumori, C., Huang, S.-C., Goldberg, I.J., Bensadoun, A., Wu, A.M., and Fong, L.G. (2010) Unexpected expression pattern for glycosylphosphatidylinositol-anchored HDL-binding protein

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Zinn, Kurt R.	Professor of	POSITION TITLE Professor of Radiology, Medicine, Pathology,		
eRA COMMONS USER NAME (credential, e.g., agency login) KurtZinn		Surgery, Computer & Elect. Engineering, Director Div. of Advanced Medical Imaging Research		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)				
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY	
University of Missouri-Columbia	BA	05/81	Chemistry	
University of Missouri-Columbia	DVM	05/86	Veterinary Medicine	
University of Missouri-Columbia	MS	12/86	Chemistry	
University of Missouri-Columbia	PhD	12/92	Biochemistry	

A. Personal Statement

I am trained in radiochemistry, biochemistry, animal models of disease, molecular biology, and imaging. My original degrees were in chemistry (B.A., M.S.), biochemistry (Ph.D.), and veterinary medicine (D.V.M.). The formal training was enhanced by 9 years of experience with radioisotope production and development of imaging instrumentation at the University of Missouri. Since arrival at UAB in 1995, I have focused my full effort on the application of molecular imaging in animal models. I have developed new genetic reporters for imaging gene transfer, and established new approaches for imaging signal transduction, cell trafficking, and cancer therapy. The imaging approaches are translational in nature. For example, the hSSTr2 for imaging gene transfer was included in a phase I study for ovarian cancer therapy with an adenoviral vector (R. Alvarez, PI; published 2012 Clin Can Res), and phase II studies with the death receptor agonist (TRA8) for breast cancer included MR DWI and perfusion approaches (A. Forero, PI) that were demonstrated to predict response in preclinical studies by my group. Currently I am part of "Phase I Trial of Intraperitoneal Pb-212-TCMC-Trastuzumab for HER-2 Expressing Malignancy (NCT01384253, PI:Meredith)" and serve as quality assurance director for cGMP drug production. Preclinical studies in collaboration with Dr. Eben Rosenthal have enabled an approved IND (#115706) with the FDA in September 2013 to evaluate fluorescence imaging to improve surgical resection of head and neck cancer in the operating room, and the phase I trial is under way.

B. Positions and Honors

Positions and Employment 1986–1993 Research Scie

1986–1993	Research Scientist (University of Missouri)
1993-1995	Senior Research Scientist (University of Missouri)
1995–2000	Assistant Professor (UAB), Radiology
2000-2003	Associate Professor with tenure (UAB), Radiology
2001–2006	Co-Director, Laboratory for Multi-Modality Imaging Assessment (UAB)
2009	Visiting Professor at Stanford (research sabbatical)
2003-	Professor with tenure (UAB), Radiology, Medicine, Pathology, and Nutrition Sciences
2007-	Director, Laboratory for Multi-Modality Imaging Assessment (UAB)
2009-	Director, Division of Advanced Medical Imaging Research; Department of Radiology
2011-	Professor, Department of Computer and Electrical Engineering

Other Experience and Professional Memberships

1998-2009	Member, American Society for Gene Therapy
2001-2004	Ad-Hoc Member, Radiology Study Section and P50 Special Emphasis Panels
2004-2005	Chair, Institute for Molecular Imaging, Academy of Molecular Imaging
2009-11	Chair, Education Task Force, Society of Nuclear Medicine
2009-12	Member, Interfaces Review Committee, for the Cancer Prevention and Research Institute of
	Texas (CPRIT)

1990- Member, Society of Nuclear Medicine

2003- Member, Academy of Molecular Imaging, Now World Molecular Imaging Society

Honors

1987 Phi Lambda Upsilon; 1988 Sigma Xi; 1989 Outstanding Graduate Student Teaching Award; 1996 Benedict Cassen Imaging Award; 1997 Southern Societies Young Faculty Award; 1997 Benedict Cassen Imaging Award; Patents: 1992 U.S. Patent # 5,154,897 for Method and Apparatus for the Generation of Radioisotopes; 1995 U.S. Patent #5,409,677 for Process for Separating a Radionuclide from Solution; 1995 U.S. Patent #5,403,573 for Radiolabeled Protein Composition and Method for Radiation Synovectomy.

C. Selected Peer-reviewed Publications (Selected from 133 peer-reviewed publications)

Most relevant to the current application

- 1. Frank SJ, Wang X, He K, Yang N, Fang P, Rosenfeld RG, Hwa V, Chaudhuri TR, Deng L, **Zinn KR.** In Vivo Imaging of Hepatic Growth Hormone Signaling. Mol Endo 20(11): 2819-30, 2006.
- 2. Wang X, Jiang J, Warram J, Baumann G, Gan Y, Menon RK, Denson LA, **Zinn KR**, and Frank SJ. Endotoxin-Induced Proteolytic Reduction in Hepatic Growth Hormone (GH) Receptor: A Novel Mechanism for GH Insensitivity. Mol Endocrinol 22(6): 1427-37, 2008. [pmcid:2422827]
- Chewning JH, Dugger KJ, Chaudhuri TR, Zinn KR, Weaver CT. Bioluminescence-based visualization of CD4 T cell dynamics using a T lineage-specific luciferase transgenic model. BMC Immunol 10:44, 2009. [pmcid:2736162]
- Day KE, Beck LN, Deep NL, Kovar J, Zinn KR, Rosenthal EL. Fluorescently labeled therapeutic antibodies for detection of microscopic melanoma. Laryngoscope. 2013 Apr 24. doi: 10.1002/lary.24102. [Epub ahead of print] PMID: 23616260
- 5. Heath CH, Deep NL, Beck LN, Day KE, Sweeny L, **Zinn KR**, Huang CC, Rosenthal EL. Use of panitumumab-IRDye800 to image cutaneous head and neck cancer in mice. Otolaryngol Head Neck Surg. 2013 Jun;148(6):982-90. doi: 10.1177/0194599813482290. Epub 2013 Mar 22. PMID: 23525846

Additional recent publications of importance to the field (in chronological order)

- 1. **Zinn KR**, Chaudhuri TR, Szafran AA, O'Quinn D, Weaver C, Dugger K, Lamar D, Kesterson RA, Wang X, Frank SJ. Noninvasive bioluminescence imaging in small animals. ILAR J 49 (1): 103-15, 2008. (PMCID:18172337)
- 2. Kim H, Morgan DE, Zeng H, Grizzle WE, Warram JM, Stockard CR, Wang D, **Zinn KR**. Breast Tumor Xenografts: Diffusion-weighted MR Imaging to Assess Early Therapy with Novel Apoptosis-Inducing Anti-DR5 Antibody. Radiology 248(3): 844-851, 2008. [pmcid:2657851].
- 3. Matthews K, Noker PE, Tian B, Grimes SD, Fulton R, Schweikart K, Harris R, Aurigemma R, Wang M, Barnes MN, Siegal GP, Hemminki A, **Zinn K**, Curiel DT, Alvarez RD. Identifying the safety profile of Ad5.SSTR/TK.RGD, a novel infectivity-enhanced bicistronic adenovirus, in anticipation of a phase I clinical trial in patients with recurrent ovarian cancer. Clin Cancer Res 15(12):4131-7, 2009.
- 4. Khotskaya YB, Dai Y, Ritchie JP, Macleod V, Yang Y, **Zinn K**, Sanderson RD. Syndecan-1 is required for robust growth, vascularization and metastasis of myeloma tumors in vivo. J Biol Chem 284(38):26085-95, 2009. (PMCID:1956856)
- 5. Borovjagin AV, McNally LR, Wang M, Curiel DT, MacDougall MJ, and **Zinn KR**, Noninvasive Monitoring of mRFP1- and mCherry-Labeled Oncolytic Adenoviruses in an Orthotopic Breast Cancer Model by Spectral Imaging. Mol Imag 9: 59-75, 2010.
- 6. Beck BH, Kim HG, Kim H, Samuel S, Liu Z, Shrestha R, Haines H, **Zinn K**, Lopez RD. Adoptively transferred ex vivo expanded gammadelta-T cells mediate in vivo antitumor activity in preclinical mouse models of breast cancer. Breast Cancer Res Treat, 122(1):135-144, 2010. (PMCID:19763820)
- 7. Jiang J, Wan Y, Wang X, Xu J, Harris JM, Lobie PE, Zhang Y, **Zinn KR**, Waters MJ, Frank SJ. Inhibitory GH receptor extracellular domain monoclonal antibodies: three-dimensional epitope mapping. Endocrinology. 152(12): 4777-88. 2011.
- 8. Turk AN, Byer SJ, **Zinn KR**, Carroll SL. Orthotopic Xenografting of Human Luciferase-Tagged Malignant Peripheral Nerve Sheath Tumor Cells for *in vivo* Testing of Candidate Therapeutic Agents. J Vis Exp (49), 2011. [pmcid:PMC3197311]
- 9. Shah N, Zhai G, Knowles JA, Stockard CR, Grizzle WE, Fineberg N, Zhou T, **Zinn KR**, Rosenthal EL, Kim H. ¹⁸F-FDG PET/CT Imaging Detects Therapy Efficacy of Anti-EMMPRIN Antibody and Gemcitabine in

Translational Cancer Research Richard O'Reilly, M.D., Chair

Peer Review Panel Members for Approval

- 1. Stephen Baylin, M.D.
- 2. Riccardo Dalla-Favera, M.D.
- 3. John DiPersio, M.D., Ph.D.
- 4. Stephan Grupp, Ph.D.
- 5. Robertson Parkman, M.D.
- 6. Simon Powell, Ph.D.
- 7. Jerome Ritz, M.D.
- 8. Alessandro Sette, D.Sc.

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES**.

NAME	POSITION TITLE		-			
Baylin, Stephen B	Professor					
eRA COMMONS USER NAME (credential, e.g., agency login)						
sbaylin1						
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)						
INSTITUTION AND LOCATION	DEGREE	YYYY	FIELD OF STUDY			
Duke University, Durham, NC	B.A.	1964	Psychology			
Duke University Medical School, Durham, NC	M.D.	1968	Medicine			
Duke University Medical School, Durham, NC	Intern/Res	1969	Internal Medicine			
The Johns Hopkins Hospital, Baltimore, MD	Asst	1972	Internal Medicine			
The Johns Hopkins Univ, SOM, Baltimore, MD	Fellow	1974	Endocrinology, Psych			

A. Personal Statement

Dr. Baylin's qualifications are relevant to this proposal include twenty five years of leading a research effort concentrating on both basic and translational aspects of epigenetic gene regulation including abnormal gene promoter DNA methylation and associated gene silencing in cancer. This research includes efforts to elucidate the basic mechanisms involved in the initiation and maintenance of DNA and other epigenetic modifications associated with tumor initiation, progression, and recurrence. His research including the analysis of TCGA data has improved our understanding of the biology of epigenetically regulated genes and has contributed to large scale collaborative translational studies aimed at using DNA methylation as cancer biomarkers. His recent research has increasingly focused on the roles of histone modification, DNA methylation and subsequent gene expression changes in cancer stem cell fate determination and on developing cancer therapies based on reversing epigenetic gene silencing. He is the faculty leader of the microarray facility at the Johns Hopkins Sidney Kimmel Comprehensive Cancer Center and responsible in that capacity for running genome screening technologies, and attendant informatics analyses, to discover epigenetic abnormalities in cancer. Dr. Baylin serves as the Deputy Director of the SKCCC as well as Co-Program Leader of the Cancer Biology Program.

B. Positions and Honors

1996

Positions and Employment					
1969-71 Research Investigator, U.S. Public Health Service, National Heart & Lun	g Institute,				
Bethesda, MD					
1974- Active Staff, The Johns Hopkins Hospital, Baltimore, MD					
1974-79 Assistant Professor of Oncology and Medicine, The Johns Hopkins University	ersity School of				
Medicine, Baltimore, MD					
1979-86 Associate Professor of Oncology, The Johns Hopkins University School	of Medicine,				
Baltimore, MD					
1979-90 Associate Professor of Medicine, The Johns Hopkins University School of	of Medicine,				
Baltimore, MD					
1986- Professor of Oncology, The Johns Hopkins University School of Medicine	e, Baltimore, MD				
1990- Professor of Medicine, The Johns Hopkins University School of Medicine	e, Baltimore, MD				
1991- Director, Cancer Biology Program, Oncology Center, The Johns Hopkins	S University School				
of Medicine, Baltimore, MD					
1992- Associate Director for Research, The Johns Hopkins Comprehensive Ca	ancer Center,				
Baltimore, MD					
1996- The Virginia and D.K. Ludwig Professorship in Cancer Research, The Jo	ohns Hopkins				
University School of Medicine, Baltimore, MD					
2007- Deputy Director, The Sidney Kimmel Comprehensive Cancer Center at C	Johns Hopkins,				
Baltimore, MD					
Honors					

Appointed to The Virginia and D.K. Ludwig Professorship in Cancer Research

2003	The Fourth Annual Jerome I. Kleinerman Lectureship in Pulmon Pathobiol, Case Western
	Res, SOM., Jack Shultz Memorial Lecture in Genetics, Fox Chase Cancer Center
2004-	Board of Directors, American Association for Cancer Research, Philadelphia, PA
2009	Recipient of Kirk A. Landon-American Association for Cancer Research Prize for Basic
	Cancer Research
2010	14th NCI Alfred G. Knudson Award in Cancer Genetics
2011	American Cancer Societys Medal of Honor Award

Additional recent publications of importance to the field (in chronological order)

- 1. Jones PA, Baylin SB. The epigenomics of cancer. Cell. 2007 Feb 23;128(4):683-92. PMCID: Not supported with NIH funding.
- 2. Yi JM, Tsai HC, Glockner SC, Lin S, Ohm JE, Easwaran H, James CD, Costello JF, Riggins G, Eberhart CG, Laterra J, Vescovi AL, Ahuja N, Herman JG, Schuebel KE, Baylin SB. Abnormal DNA methylation of CD133 in colorectal and glioblastoma tumors Cancer Res. 2008;(19):8094-103. PMCID: 2744404.
- 3. Easwaran HP, Van Neste L, Cope L, Sen S, Mohammad HP, Pageau GJ, Lawrence JB, Herman JG, Schuebel KE, Baylin SB. Aberrant silencing of cancer-related genes by CpG hypermethylation occurs independently of their spatial organization in the nucleus Cancer Res. 2010;(20):8015-24 NIHMSID # 263537 PMCID Journal. PMCID: 3031132.
- 4. Tiwari VK, Baylin SB. Mapping networks of protein-mediated physical interactions between chromatin elements. Current protocols in molecular biology / edited by Frederick M. Ausubel ... [et al.]. 2010 Jan; Chapter 21:Unit 21.16.1-13. PMCID: 2857687.
- Noushmehr H, Weisenberger DJ, Diefes K, Phillips HS, Pujara K, Berman BP, Pan F, Pelloski CE, Sulman EP, Bhat KP, Verhaak RG, Hoadley KA, Hayes DN, Perou CM, Schmidt HK, Ding L, Wilson RK, Van Den Berg D, Shen H, Bengtsson H, Neuvial P, Cope LM, Buckley J, Herman JG, Baylin SB, Laird PW, Aldape K. Identification of a CpG island methylator phenotype that defines a distinct subgroup of glioma. Cancer cell. 2010 May 18;17(5):510-22. PMCID: 2872684.
- 6. Ohm JE, Mali P, Van Neste L, Berman DM, Liang L, Pandiyan K, Briggs KJ, Zhang W, Argani P, Simons B, Yu W, Matsui W, Van Criekinge W, Rassool FV, Zambidis E, Schuebel KE, Cope L, Yen J, Mohammad HP, Cheng L, Baylin SB. Cancer-related epigenome changes associated with reprogramming to induced pluripotent stem cells. Cancer research. 2010 Oct 1;70(19):7662-73. PMCID: 2980296.
- 7. O'Hagan HM, Wang W, Sen S, Destefano Shields C, Lee SS, Zhang YW, Clements EG, Cai Y, Van Neste L, Easwaran H, Casero RA, Sears CL, Baylin SB. Oxidative damage targets complexes containing DNA methyltransferases, SIRT1, and polycomb members to promoter CpG Islands Cancer Cell. 2011;(5):606-19. PMCID: 3220885.
- 8. Baylin SB, Jones PA. A decade of exploring the cancer epigenome biological and translational implications Nat Rev Cancer. 2011;(10):726-34. PMCID: 3307543.
- 9. Juergens RA, Wrangle J, Vendetti FP, Murphy SC, Zhao M, Coleman B, Sebree R, Rodgers K, Hooker CM, Franco N, Lee B, Tsai S, Delgado IE, Rudek MA, Belinsky SA, Herman JG, Baylin SB, Brock MV, Rudin CM. Combination epigenetic therapy has efficacy in patients with refractory advanced non-small cell lung cancer. Cancer discovery. 2011 Dec;1(7):598-607. PMCID: 3353724.
- 10. Tsai HC,Li H,Van Neste L,Cai Y,Robert C,Rassool FV,Shin JJ,Harbom KM,Beaty R,Pappou E,Harris J,Yen RW,Ahuja N,Brock MV,Stearns V,Feller-Kopman D,Yarmus LB,Lin YC,Welm AL,Issa JP,Minn I,Matsui W,Jang YY,Sharkis SJ,Baylin SB,Zahnow CA. Transient low doses of DNA-demethylating agents exert durable antitumor effects on hematological and epithelial tumor cells. Cancer cell. 2012;21(3):430-46. PMCID: 3312044.
- 11. Pandiyan K, You JS, Yang X, Dai C, Zhou XJ, Baylin SB, Jones PA, Liang G. Functional DNA demethylation is accompanied by chromatin accessibility. Nucleic acids research. 2013 Apr;41(7):3973-85. PMCID: 3627572.
- 12. Easwaran H, Baylin SB. Epigenetic abnormalities in cancer find a "home on the range". Cancer Cell. 2013 Jan 14;23(1):1-3. PMCID: 3586528.
- 13. Azad N, Zahnow CA, Rudin CM, Baylin SB. The future of epigenetic therapy in solid tumours--lessons from the past. Nature reviews. Clinical oncology. 2013 May;10(5):256-66. PMCID: 3730253.
- 14. Cai Y, Geutjes EJ, de Lint K, Roepman P, Bruurs L, Yu LR, Wang W, van Blijswijk J, Mohammad H, de Rink I, Bernards R, Baylin SB. The NuRD complex cooperates with DNMTs to maintain silencing of key colorectal tumor suppressor genes. Oncogene. 2013 May 27 [Epub ahead of print]. PMCID: 3883927.
- 15. Wrangle J, Wang W, Koch A, Easwaran H, Mohammad HP, Vendetti F, Vancriekinge W, Demeyer T, Du Z, Parsana P, Rodgers K, Yen RW, Zahnow CA, Taube JM, Brahmer JR, Tykodi SS, Easton K, Carvajal RD,

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Dalla-Favera, Riccardo MD		POSITION TITLE Professor of Pathology and Genetics &		
eRA COMMONS USER NAME (credential, e.g., agency login) DALLAFAVERAR	Developme	0,	0,	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)				
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY	
University of Milan	MD	1976	Medicine	

A. Personal Statement

My research activity during the past 3 decade has consistently focused on the understanding of the molecular mechanisms responsible for lymphoma development, and in particular on the identification and characterization of genetic lesions that contribute to the transformation and progression of mature B cell lymphomas. In this regard, my laboratory has developed and characterized several mouse models for mature B cell malignancies, which closely resemble the relevant human diseases. In recent years, we have developed extensive experience using next generation sequencing and advance system biology tools to characterize B cell malignancies.

B. Positions and Honors

Positions and Employment

i Ositions ai	nd Employment
1983-1987 1987-1989 1989-1991 1989-1994 1991-	Assistant Professor, Department of Pathology, New York University School of Medicine Associate Professor, Department of Pathology, New York University School of Medicine Associate Professor, Department of Pathology, Columbia University Member, Pathology B Study Section, Division of Research Grants, NIH Professor, Department of Pathology, Columbia Univ., College of Physicians & Surgeons
1992-1998	Director, Division of Experimental Oncology, Department of Pathology, Columbia University
1992-	Professor, Department of Genetics & Development, Columbia University
1992-	Joanne and Percy Uris Professor of Clinical Medicine, Columbia University
1992-1997	Deputy Director, Cancer Center Columbia University, College of Physicians & Surgeons
1999-	Director, Institute for Cancer Genetics, Columbia University
2000-2002	Co-Chair, Leukemia/Lymphoma/Myeloma Program Review Group, National Cancer Institute
2005-2011	Director, Herbert Irving Comprehensive Cancer Center
2011-	Professor, Department of Microbiology and Immunology, Columbia University
<u>Professiona</u>	al Societies
1982	American Association for the Advancement of Science
1983	American Association for Microbiology
1984	American Association of Pathologist
1988	American Society of Hematology
1991	American Association for Cancer Research
Awards and	<u>l Honors</u>
1981	Leukemia Society of America Special Fellow
1984	Leukemia Society of America Scholar
1986	"Milano Medicina" Senior Award for Biomedical Research

Irma T. Hirschl Research Career Award

1986

1987

President's Research Development Award, Leukemia Society of America

1987	Stohlman Award, Leukemia Society of America
1989	N.I.H., MERIT Award
1994	Annual Guest Lecture Award, Leukemia Research Fund, U.K.
1995	Dean's Distinguished Lecture, Columbia University
1998	Fellow, American Association of Physicians
2002	N.I.H., MERIT Award
2005	Outstanding Achievement Award, American-Italian Cancer Foundation
2006	William Dameshek Prize, American Society of Hematology
2010	Member, Institute of Medicine, National Academy of Sciences
2012	Alfred Knudson Award, National Cancer Institute

Other Professional Activities

Madrid, Spain.

Other Fronc	33ional Activities
Consultative	<u> </u>
1989-1993	Member, Pathology B Study Section, National Cancer Institute.
1992-1993	Member, AIDS-associated Malignancy Task Force, National Cancer Institute
1994-	Member, Scientific Advisory Board, Yale University Cancer Center
1995-2002	Chairman, Scientific Advisory Board, Yale University Cancer Center
1995-2000	Member, Board of Scientific Counselors, National Institute of Environmental Health Sciences
1997-2001	Member, Advisory Board, Cardinal Bernardin Cancer Center, Loyola University
1998-2001	Member, Board of Guarantors, Italian Academy for Advanced Studies in America, Columbia
	University
2000	Co-Chairman, National Cancer Institute Progress Review Group on Leukemia/
	Lymphoma/Myeloma, N.I.H.
2001	Co-organizer, Keystone Symposium on "B Cells in Biology and Disease", Keystone, CO
2005-	Member, Scientific Advisory Board, Cancer Center, A. Einstein College of Medicine
2005-	Member, Scientific Committee on Lymphocyte Biology, American Society of Hematology
2005-	Member, World Committee, International Association for Comparative Research in Leukemia
	and Related Diseases
2007	Co-organizer, CNIO Cancer Conference on: "Molecular Mechanisms in Lymphoid Neoplasm",

Editorial:

1987-1991	Oncogene Research (Editorial Board)
1987-1991	Blood (Editorial Board)
1988-1991	Leukemia (Advisory Board)
1988-1995	Hematologic Pathology (Editorial Board)
1989-1995	Genes, Chromosomes and Cancer (Editorial Board)
1990-1995	Cancer Research (Associate Editor)
1991-1996	American Journal of Pathology (Associate Editor)
1994-2006	The Cancer Journal (Editorial Board)
1997-2001	Blood (Editorial Board)
1997-2002	Laboratory Investigation (Editorial Board)
1997-2004	American Journal of Pathology (Editorial Board)
2001-2007	Journal of Clinical Investigation (Associate Editor)
2007-	Journal of Clinical Investigation (Consulting Editor)
2012-	Cancer Cell (Editorial Board)

C. Selected Peer-reviewed Publications (Publications selected from 246 peer-reviewed publications)

- 1) Dalla-Favera, R., Martinotti, S., Gallo, R.C., Erikson, J., and Croce, C.M.: Translocation and rearrangements of the c-myc oncogene locus in human undifferentiated B-cell lymphomas. **Science** 219:963-967, 1983. N/A
- 2) Gelmann, E.P., Psallidopoulos, M.C., Papas, T.S., and Dalla-Favera, R.: Identification of reciprocal translocation points within the c-myc and immunoglobulin m loci in a Burkitt lymphoma. **Nature** 306:799-803, 1983. N/A

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE		
DiPersio, John F.		Professor of Medicine, Pathology & Pediatrics		
eRA COMMONS USER NAME				
jdipersi				
EDUCATION/TRAINING (Begin with baccalaureate or other init	itial professio	onal education, s	such as nursing, a	nd include postdoctoral training.)
INSTITUTION AND LOCATION		DEGREE applicable)	YEAR(s)	FIELD OF STUDY
Williams College, Williamstown, MA		B.A.	1973	Biology
University of Rochester, Rochester, NY		M.D.	1980	Medicine
University of Rochester, Rochester, NY		Ph.D.	1980	Microbiology

A. Personal Statement

N/A

B. Positions and Employment

Positions and Employments

1980-1984	Intern, Resident, and Chief Resident Internal Medicine, Parkland Mem. Hospital, University of
	Texas, Southwestern Medical Center at Dallas, TX
1984-1987	Fellow, Division of Hematology-Oncology, UCLA School of Medicine
1987-1990	Assistant Professor of Medicine, Division of Hematology-Oncology, UCLA School of Medicine
1990-1994	Director, Bone Marrow Transplant Program, Strong Memorial Hospital, Rochester, NY
1990-1994	Assistant Professor of Medicine, Hematol Unit, Univ of Rochester Sch of Med, Rochester, NY
1994-1997	Associate Professor of Medicine, Pathology & Immunol, Washington Univ School of Medicine
1994-2000	Chief, Div of Bone Marrow Transplant Stem Cell Biology, Washington Univ School of Medicine
1997-2000	Acting Chief, Division of Medical and Mol. Oncology, Washington Univ School of Medicine
1997-present	Professor of Medicine, Pediatrics, and Pathology, Washington University School of Medicine
2000-present	Deputy Director, Siteman Cancer Center, Washington University School of Medicine
2000-2006	Director, Section of BMT and Leukemia, Washington University School of Medicine
2000-present	Chief, Division of Oncology, Washington University School of Medicine
2006-2011	Scientific Director, Good Manufacturing Procedure (GMP) Facility; Siteman Cancer Center

Selected Honors and Professional Memberships

1996	Elected, American Society of Clinical Investigation (ASCI)
1997	Recipient, Lewis T. and Rosalind B. Apple Chair in Oncology
2000-06	Leukemia and Lymphoma Society of America, Career Development Award Study Section Member
2000	Chairman, NHLBI Consensus Conference on Allo Transplantation for Non-Malignant Diseases
2001	ISHAGE Meeting. First prize, Scientific Merit: "Control of GvHD using genetically modified T cells."
2002	Member, Executive Committee IBMTR/ABMTR
2003-06	Award Member, ASH Committee on Educational Affairs, Washington D.C.
2003-06	Member, Board of Directors, American Society of Biology and Marrow Transplant.
2004-09	NCI (NIH) Permanent member CONC Study Section Member
2005	Chairman, Study Section RFA HL-04-017 (NHLBI) Spec. Ctr. for Cell Based Therapy.
2006	NIH (ZRG)/CSR – Gene Therapy and Inborn Errors – Special Emphasis Review Panel
2006	Member, ASH Committee on Gene and Cell Therapy
2007-12	Co-Chair, CIBMTR Acute Leukemia Working Committee
2008	"Great Teacher" Lecture NIH
2008	NCI P01 Special Emphasis Panel ZCA1-RPRB-J, October 2008, Bethesda MD
2008-	ASH Scientific Committees on Cell and Gene Therapy and Hematopoiesis

- 2008-11 Member, Scientific and Medical Research Funding; California Instit Regen. Med (CIRM)
- 2009 Member, Review Panel; Center Grants, National Medical Research Council, Singapore
- 2009 Member, ASBMT Committee on Research Priorities
- 2010 Recipient, Virginia E. and Samuel J. Golman Endowed Professorship in Medicine
- 2010 ASH/CRTI Faculty/Mentor
- 2010 Washington University Divisions of Hematology and Oncology: "Teacher of the Year"
- 2010 Member, External Advisory Board, Cancer Therapy and Research Center, UT San Antonio
- 2010 Chairman, NIH NIAID ZAI1 MFH-01 P01 Special Emphasis Panel
- 2011 NIH (BST-M)/CSR- Special Emphasis Panel
- 2011 Study Section, Doris Duke Center Grants for Sickle Cell Disease
- 2011 Chairman, NIH/NIDDK P01 Special Emphasis Panel, Methylation and Hematopoiesis
- 2012- Vice Chair (2012-13) and Chair (2013-14) ASH Scientific Committee on Hematopoiesis
- 2013 Reviewer of NCI Intramural Program: Experimental Transplantation and Immunology Branch
- 2013 NIH Study Section for Loan Repayment Program
- 2013 Daniel P. Schuster Distinguished Translational Investigator Award, Washington University
- 2013 Member, Association of American Physicians (AAP)
- 2013 Member, NCI Provocative Questions B Study Section
- 2103 Member AIDS Malignancy Consortium (AMC) Study Section Review Intramural Program
- 2013-18 Member Board of Scientific Councilors; National Cancer Institute (NCI)
- 2014 Recipient 19th Annual AACR Joseph H. Burchenal Memorial Award for Outstanding Achievement in Clinical Cancer Research

C. Selected peer-reviewed publications (selected from 262)

- 1. Rettig MP, Ritchey JK, Meyerrose TE, Haug JS, DiPersio JF: Transduction and selection of human T cells with novel CD34/thymidine kinase chimeric suicide genes for the treatment of graft-versus-host disease. *Mol Ther* 8:29-41. 2003
- 2. Rettig MP, Ritchey JK, Prior JL, Haug JS, Piwnica-Worms D, DiPersio JF: Kinetics of in vivo elimination of suicide gene-expressing T cells affects engraftment, graft-versus-host disease, and graft-versus-leukemia after allogeneic bone marrow transplantation. *J.Immunol.* 173:3620-3630, 2004
- 3. Nervi B, Rettig MP, Ritchey JK, Wang HL, Bauer G, Walker J, Bonyhadi ML, Berenson RJ, Prior JL, Piwnica-Worms D, Nolta JA, DiPersio JF. Factors affecting human T cell engraftment, trafficking and associated xenogeneic graft-vs. host disease in NOD/SCID beta2m (null) mice. *Exp Hematol* 35:1823-1838, 2007
- 4. Ley TJ, Mardis ER, Ding L, Fulton B, McLellan MD, Chen K, Dooling D, Dunford-Shore BH, McGrath S, Hickenbotham M, Cook L, Abbott R, Larson DE, Koboldt DC, Pohl C, Smith S, Hawkins A, Abbott S, Locke D, Hillier LW, Miner T, Fulton L, Magrini V, Wylie T, Glasscock J, Conyers J, Sander N, Shi X, Osborne JR, Minx P, Gordon D, Chinwalla A, Zhao Y, Ries RE, Payton JE, Westervelt P, Tomasson MH, Watson M, Baty J, Ivanovich J, Heath S, Shannon WD, Nagarajan R, Walter MJ, Link DC, Graubert TA, DiPersio JF, Wilson RK. DNA sequencing of a cytogenetically normal acute myeloid leukemia genome. *Nature*. 2008 Nov 6;456(7218):66-72.. PMCID: PMC2303574
- 5. DiPersio, J. F., Stadtmauer, E. A., Nademanee, A., Micallef, I. N., Stiff, P. J., Kaufman, J. L., Maziarz, R.T., Hosing, C., Fruehauf, S., Horwitz, M., Cooper, D., Bridger, G., Calandra, G. Plerixafor and G-CSF versus placebo and G-CSF to mobilize hematopoietic stem cells for autologous stem cell transplantation in patients with multiple myeloma. *Blood*, 2009 Jun 4;113(23) 5720-6 Epub 2009 Apr 10. PMCID: PMC Journal
- 6. Mardis ER, Ding L, Dooling DJ, Larson DE, McLellan MD, Chen K, Koboldt DC, Fulton RS, Delehaunty KD, McGrath SD, Fulton LA, Locke DP, Magrini VJ, Abbott RM, Vickery TL, Reed JS, Robinson JS, Wylie T, Smith SM, Carmichael L, Eldred JM, Harris CC, Walker J, Peck JB, Du F, Dukes AF, Sanderson GE, Brummett AM, Clark E, McMichael JF, Meyer RJ, Schindler JK, Pohl CS, Wallis JW, Shi X, Lin L, Schmidt H, Tang Y, Haipek C, Wiechert ME, Ivy JV, Kalicki J, Elliott G, Ries RE, Payton JE, Westervelt P, Tomasson MH, Watson MA, Baty J, Heath S, Shannon WD, Nagarajan R, Link DC, Walter MJ, Graubert TA, DiPersio JF, Wilson RK, Ley TJ. Recurring mutations found by sequencing an acute myeloid leukemia genome. N Engl J Med. 2009 Aug 5; 361:1058-66, 2009. PMCID: PMC3201812
- 7. Choi, J., Ritchey, J., Prior, J. L., Holt, M., Shannon, W. D., Deych, E., Piwnica-Worms, D. R., and DiPersio, J. F. In vivo administration of hypomethylating agents mitigate graft-versus-host disease (GvHD) without sacrificing graft-versus-leukemia (GvL). *Blood;* 2010. Jul 8;116(1):129-39 PMCID: PMC2904576
- 8. Cashen, A. F., Schiller, G. J., O'Donnell, M. R., and DiPersio, J. F. Multicenter, phase II study of

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Stephan Grupp MD PhD	POSITION TITLE Professor of Pediatrics
eRA COMMONS USER NAME	CCCR Director of Translational Research
sgrupp	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Univ. of Cincinnati, Cincinnati	B.S.	1981	Biology
Univ. of Cincinnati, Cincinnati	Ph.D.	1985	Immunology
Univ. of Cincinnati, Cincinnati	M.D.	1987	Medicine

A. Personal Statement

I have extensive experience in the development and preclinical testing of signal transduction inhibitors in leukemia, in pediatric immunotherapy trials using signal transduction inhibitors and cell therapies, and in the manufacture and use of cellular therapeutics in preclinical, GMP, and clinical trial settings. I am the Chair of Stem Cell Transplantation for the Children's Oncology Group, the Medical Director of the CHOP GMP Stem Cell Lab, on the Boards of the Penn Cell and Vaccine Production Facility and Human Immunology Core, and the Director of Translational Research for the Center for Childhood Cancer Research at CHOP. In addition, I serve on the Pediatric Program Committee for ASBMT and the Steering Committee of the BMT Clinical Trials Network.

B. Positions and Employment

1978-1981	Research Assistant Marine Biological Laboratory, Woods Hole, MA
1981	Research Assistant, NINCDS, National Institutes of Health, Bethesda, MD
1981-1987	Student, Medical Scientist Training Program, University of Cincinnati College of Medicine
1987-1989	Resident in Pediatrics, Children's Hospital, Boston, MA
1989-1992	Fellow, Pediatric Heme/Onc, Dana Farber Cancer Institute and Children's Hospital, Boston, MA
1991-1995	Research Fellow in Immunology, Brigham and Women's Hospital, Boston, MA
1992-1995	Instructor in Pediatrics, Harvard Medical School, Boston, MA
1992-1995	Assistant in Medicine, Children's Hospital and Dana Farber Cancer Institute, Boston, MA
1993-1995	Assistant in Medicine, Brigham and Women's Hospital, Boston, MA
1996-2006	Assistant Professor of Pediatrics, University of Pennsylvania
1997-	Member, Graduate Program in Immunology, University of Pennsylvania
1999-2010	Director, Stem Cell Biology, Division of Oncology, Children's Hospital of Philadelphia
2000-	Medical Director, Stem Cell Laboratory
2006-2011	Associate Professor of Pediatrics, University of Pennsylvania
2007-	Chair, Children's Oncology Group Stem Cell Transplant Committee
2008-	Director of Translational Research, Center for Childhood Cancer Research, CHOP
2008-	Fellowship Director, Pediatric Hematology-Oncology, CHOP
2011-	Professor of Pediatrics, University of Pennsylvania
Aa.a.la/I.la.a	

Awards/Honors

2007

Awards/Hon	<u>ors</u>
1981	Magna cum Laude in Biology, Univ. of Cincinnati
1987	Bogen Award for Outstanding Medical Student Research, Univ. Cincinnati College of Medicine
1992-1995	Special Fellowship, Leukemia Society of America
1993-1996	Potter Fellow
1996	NIH FIRST Award
1997	Best Presentation Award, 5 th International Mtg on Blood Cell Transplantation, Omaha, Nebraska
1999	Sanford Young Investigator
2002	Research Recognition Award, Leukemia and Lymphoma Society

Lifetime Achievement Award, Eagles Fly for Leukemia

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TI	ΓLE	
Robertson Parkman			
eRA COMMONS USER NAME (credential, e.g., agency login) RPARKMAN		Professor of Pediatrics, Molecular Microbiology and Immunology	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Amherst College, Amherst, MA	AB	1960	
Yale Univ. School of Med., New Haven, CT	MD	1965	Medicine
Yale-New Haven Hospital, New Haven, CT		1965-1966	Pediatric-Internship
Yale-New Haven Hospital New Haven CT		1966-1967	Pediatric-Residency

1967-1969

Research Assoc.

Personal Statement

National Cancer Institute NIH, Bethesda, MD

I have been actively involved in clinical hematopoietic stem cell transplantation (HSCT) for more than 40 years with a special interest in the treatment of immunological and genetic diseases. I helped establish the HSCT program at the Children's Hospital, Boston and the Peter Brent Brigham Hospital in the late 1960's and established the HSCT program at the Children's Hospital Los Angeles when I moved there in 1983. Much of my laboratory and clinical work has been centered on the immunological aspects of HSCT, including the pathogenesis of graft versus host disease (GVHD) and immune reconstitution after HSCT. In addition, I directed the Arthritis Clinic at the Children's Hospital, Boston for 5 years and have had an ongoing interest in naturally occurring autoreactive T lymphocytes and their regulation in both autoimmune diseases and chronic GVHD and have published on the subject over the last 36 years.

I was the Principal Investigator on a SCOR in HSC Biology grant for 14 years and obtained and directed the GCRC at Children's Hospital Los Angeles from 1994 to 2002. I ran the Immunology Core Laboratory for the COBLT (Cord Blood Transplantation) Study from 1998-2006 and the Immunology Core Laboratory for a multicenter PO-1 grant to improve immune reconstitution after HSCT from 1999-2009. Thus, I have significant expertise in directing large multi-disciplinary grants and the central immunological evaluation of multi-center clinical research trials.

I was a member of the Board of External Advisors (BEA) of NHLBI (1999-2002), a member of the Human Gene Therapy Subcommittee and the full Recombinant DNA Advisory Committee (1985-1995), and continue to be the Chairperson of the NHLBI DSMB for Gene and Cell Therapies.

A. Positions and Honors.

Positions and	<u>Employment</u>
1963-1964	USPHS Fellow, Wright-Fleming Institute, St. Mary's Hospital, London England.
1969-1971	Teaching Fellow in Pediatrics, Harvard Medical School, Boston, MA.
1970-1972	Fellow in Med. (Immunology), Childrens Hospital Medical Center, Boston, MA.
1971-1974	Instructor in Pediatrics, Harvard Medical School, Boston, MA.
1972-1976	Asst. in Med. (Immunology), Childrens Hospital Medical Center, Boston, MA.
1974-1978	Asst. Professor of Pediatrics, Harvard Medical School, Boston, MA.
1974-1982	Associate in Medicine, Peter Bent Brigham Hospital, Boston, MA.
1975-1979	Senior Physician, Sidney Farber Cancer Institute, Boston, MA.
1978-1982	Associate Professor of Pediatrics, Harvard Medical School, Boston, MA.
1979-1982	Senior Associate in Medicine, Childrens Hospital Medical Center, Boston, MA.
1979-1982	Senior Associate in Immunology, Childrens Hospital Medical Center, Boston, MA

1983- 2002	Head, Division of Research Immunology/Bone Marrow Transplantation, Childrens Hospital Los
	Angeles, Los Angeles, CA; Professor of Pediatrics & Microbiology, University of Southern
	California, Keck School of Medicine.

1983-Pres. Professor of Pediatrics & Microbiology, University of Southern California, Keck School of Medicine; Division of Research Immunology/Bone Marrow Transplantation, Childrens Hospital Los Angeles, Los Angeles, CA.

2007 Lifetime Achievement Award from the American Society for Blood and Marrow Transplantation 2010 Lifetime Achievement Award from the Pediatric Blood and Marrow Transplant Consortium

Other Experience and Professional Memberships

1987-1991	American Cancer Society, Immunological Study Section; 1987-1991; Chairman, 1991
1987-1991	Gene Therapy Subcommittee of Recombinant DNA Advisory Committee
1991-1996	Recombinant DNA Advisory Committee
1995-1998	National Council American Cancer Society
1996-2002	AD HOC Recombinant DNA Advisory Review Committee
1999-2002	NHLBI, Board of Extramural Advisors
2001-Pres.	NHLBI, Chairman, DSMB for Gene and CellularTherapy

B. Selected peer-reviewed publications (in chronological order) from a total of 149.

- 1. Reinherz E, **Parkman R**, Rappeport J, Rosen F, Schlossman S. Aberrations of suppressor T cells in human graft-versus-host disease. N Engl J Med 300:1061-1068, 1979. PMID:34791
- 2. Rappeport J, Mihm M, Reinherz E, Lopansri S, **Parkman R**. Acute graft-versus-host disease in recipients of bone marrow transplants from identical twin donors. Lancet 2:717-720, 1979. PMID:90805
- 3. Osband M, Lipton J, Lavin P, Levey R, Vawter G, Greenberger J, McCaffrey R, **Parkman R.** Histiocytosis-X: Demonstration of abnormal immunity, T-cell histamine H2 receptor deficiency and successful treatment with thymic extract. N Engl J Med 304:146-153, 1981. PMID:6449667
- 4. **Parkman R**, Clonal analysis of murine graft versus host disease. I. Phenotypic and functional analysis of T lymphocyte clones. J Immunol 136(10):3543-3548, 1986. PMID:2871104
- 5. DeClerck Y, Draper V, **Parkman R.** Clonal analysis of murine graft versus host disease. II. Lymphokines that stimulate fibroblast proliferation and collagen synthesis in graft versus host disease. J Immunol 136(10):3549-3552, 1986. PMID:3486213
- 6. **Parkman R**. Graft versus host disease: an alternative hypothesis. Immunol. Today 10:362-364, 1989. PMID:2692593
- 7. **Parkman R**, Is chronic graft versus host disease an autoimmune disease? Curr Opin Immunol 1993;5:800-803. PMID:8240743
- 8. Weinberg K, Annett G, Kashyap A, Lenarsky C, Forman SJ, **Parkman R**. The Effect of Thymic Function on Immunocompentence Following bone Marrow Transplantation. Biol Blood Marr Transplant 1:18-23, 1995. PMID:9118285
- Parkman R, Cohen G, Carter SL, Weinberg KI, Masinsin B, Guinan E, Kurtzberg J, Wagner JE, Kernan NA. Successful immune reconstitution decreases leukemic relapse and improves survival in recipients of unrelated cord blood transplantation. Biol Blood Marrow Transplant 12(9):919-927, 2006. PMID:16920557
- Shah AJ, Kapoor N, Crooks GM, Weinberg KI, Azim HA, Killen R, Kuo L, Rushing T, Kohn DB, Parkman R. The effects of Campath 1H upon graft-versus-host disease, infection, relapse, and immune reconstitution in recipients of pediatric unrelated transplants. Biol Blood Marrow Transplant 13:584-593, 2007. PMID:17448918
- 11. Reiff A, Krogstad P, Moore S, Shaham B, **Parkman R**, Kitchen C, Weinberg K. Study of thymic size and function in children and adolescents with treatment refractory systemic sclerosis eligible for immunoablative therapy. Clin Immunol 133:295-302, 2009. PMID:19793681
- 12. Reiff A, Shaham B, Weinberg KI, Crooks GM, **Parkman R**. Anti-CD52 antibody mediated immune ablation with autologous immune recovery for the treatment of refractory juvenile polymyositis. J Clin Immunol 31(4):615-22, 2011. PMID:21541793
- 13. Candotti F, Shaw KL, Muul L, Carbonaro D, Sokolic R, Choi C, Schurman SH, Garabedian E, Kesserwan C, Jagadeesh GJ, Fu PY, Gschweng E, Cooper A, Tisdale JF, Weinberg KI, Crooks GM, Kapoor N, Shah A, Abdel-Azim H, Yu XJ, Smogorzewska M, Wayne AS, Rosenblatt HM, Davis CM, Hanson C, Rishi RG,

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Simon N. Powell	POSITION TITLI	E		
eRA COMMONS USER NAME SNPOWELL	Professor ar	Professor and Chair		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, include postdoctoral training.)				
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY	
University of Oxford, UK University of London, UK	B.A. M.B. B.S.	08/1976 07/1981	Physiology Medicine (=MD	

Ph.D.

equivalent)

Cell/Molecular Biology

06/1991

A. Personal Statement

University of London, UK

I have worked in radiation oncology and biology for 28 years. I am now Chair of Radiation Oncology at Memorial Sloan-Kettering Cancer Center. I have been continuously funded by the NIH since 1992, all projects being in the area of DNA repair. I am broadly knowledgeable in all aspects of the effects of radiation on cells and humans. The cellular effects of ionizing radiation are complex, including effects on the nucleus and the membrane/cytoplasm. Nuclear effects include the production of DNA strand breaks, with our laboratory focusing on the repair of double-stranded breaks in DNA. I am interested in polymorphic variants of DNA repair genes, and their potential role in individual differences in radiation sensitivity. In studying DNA doublestrand break repair, we have mostly focused on those repair features that can be disrupted in cancer cells, which can present a potential therapeutic opportunity in cancer treatment. We have spent many years looking at the effects of p53 on regulating aspects of DNA repair, including the suppression of homologous recombination, which appears to work at the level of replication. In recent years we have continued to focus on the pathway of homologous recombination and the role of the breast cancer susceptibility genes, BRCA1 and BRCA2. This avenue of work led to an interest in how the replication fork manages impediments to its progression, which is fundamental to the genomic instability of certain types of breast and ovarian cancer. We are currently working on methods to improve the efficacy of radiation therapy and drugs to exploit cancer cell DNA repair deficiencies: using both high throughput drug screens and biologically-targeted therapies. Understanding the biology of blocked replication forks will lead to additional opportunities for exploiting a tumor specific defect in DNA metabolism.

B. Positions and Honors

Research and Professional Experience:

1981-4	House and Senior House Officer	General (Internal) Medicine Training in London
1984-5	Junior Lecturer	Academic Unit of Radiotherapy
		The Royal Marsden Hospital, Surrey
1985-8	Registrar	Department of Radiotherapy and Oncology
		The Royal Marsden Hospital, London/Surrey
1988-91	Clinical Scientist	The Institute of Cancer Research, Sutton, Surrey
1988-91	Honorary Senior Registrar	The Royal Marsden Hospital, London and Surrey
1991-4	Fellow / Instructor	Harvard Medical School
1994-7	Assistant Professor	Harvard Medical School
	Assistant Radiation Oncologist	Department of Radiation Oncology, MGH, Boston
1998-04	Associate Professor	Harvard Medical School
2002-04	Radiation Oncologist	Department of Radiation Oncology, MGH, Boston
2004-08	Professor and Chairman	Radiation Oncology, Washington University

2008- Attending Radiation Oncologist

Department Chair

Member

Professor, Molecular Biology

Department of Radiation Oncology, Memorial Sloan-

Kettering Cancer Center (MSKCC) Molecular Biology Program, MSKCC

Weill-Cornell Graduate School of Medical Sciences

Honors / Awards:

1976	Corpus Christi College Award	Corpus Christi College, Oxford
1976	Sidgwick Essay Prize	Corpus Christi College, Oxford
1977	Glaxo Prize	University College, London
1981	Rosenheim Award	University College, London
1988	Rohan Williams Medal	Royal College of Radiologists, UK
1990	E.S.T.R.O. Varian Award	E.S.T.R.O.
2004	Logan Lecturer	Thomas Jefferson University
2005	Bush Lecturer	Princess Margaret Hospital, Toronto
2008	Chair, Radiation Oncology Meeting	Gordon Research Conferences
2010	Merck Lecturer	Cross Cancer Institute, Edmonton

C. Selected peer-reviewed publications out of 141 total

- 1. Xia, F., Taghian, D.G., McDonough, K.M., DeFrank, J.S., Willers, H., Iliakis, G., **POWELL, S.N**. Deficiency of the human BRCA2 leads to impaired homologous recombination but maintains normal non-homologous end-joining. Proc Natl Acad Sci U S A, 2001, 98, 8644-9.
- 2. Zhang, J., Willers. H., Feng, Z, Kim, S., Weaver, D.T., Chung, J., **POWELL, S.N.** Chk2 phosphorylation of BRCA1 regulates DNA double-strand break repair. Mol. Cell. Biol, 2004, 24(2), 708-18.
- 3. Romanova LY, Willers H, Blagosklonny MV, **POWELL SN.** The interaction of p53 with replication protein A mediates suppression of homologous recombination. Oncogene. 2004 Dec 2;23(56):9025-33.
- 4. Zhang J, Ma Z, Treszezamsky A, **POWELL SN.** MDC1 interacts with Rad51 and facilitates homologous recombination. Nat Struct Mol Biol. 2005 Oct;12(10):902-9.
- 5. Litman R, Peng M, Jin Z, Zhang F, Zhang J, **POWELL S**, Andreassen PR, Cantor SB. BACH1 is critical for homologous recombination and appears to be the Fanconi anemia gene product FANCJ. Cancer Cell. 2005 Sep;8(3):255-65.
- Treszezamsky AD, Kachnic LA, Feng Z, Zhang J, Tokadjian C, POWELL SN. BRCA1- and BRCA2deficient cells are sensitive to etoposide-induced DNA double-strand breaks via topoisomerase II. Cancer Res. 2007 Aug 1;67(15):7078-81.
- 7. Willers H, Taghian AG, Luo CM, Treszezamsky A, Sgroi DC, **POWELL SN**. Utility of DNA Repair Protein Foci for the Detection of Putative BRCA1 Pathway Defects in Breast Cancer Biopsies. Mol Cancer Res 2009;7(8):1304-09.
- 8. Feng Z, Scott SP, Bussen W, Sharma G, Guo G, Pandita TK, **POWELL SN**. Rad52 inactivation is synthetically lethal with BRCA2-deficiency. Proc Natl Acad Sci U S A. 2011 Jan 11; 108(2):686-91.
- 9. Bott M, Brevet M, Taylor BS, Shimizu S, Ito T, Wang L, Creaney J, Lake RA,,Zakowski MF, Reva B, Sander C, Delsite R, **POWELL S**, Zhou Q, Shen R, Olshen A, Rusch V, Ladanyi M. The nuclear deubiquitinase BAP1 is commonly inactivated by somatic mutations and 3p21.1 losses in malignant pleural mesothelioma. Nat Genet. 2011 Jun 5. [Epub ahead of print] PMID: 21642991
- 10. Roy R, Chun J, **POWELL SN**. BRCA1 and BRCA2: different roles in a common pathway of genome protection. Nat Rev Cancer. 2011 Dec 23;12(1):68-78. PubMed PMID: 22193408.
- 11. Lok BH, Carley AC, Tchang B, **POWELL SN**. RAD52 inactivation is synthetically lethal with deficiencies in BRCA1 and PALB2 in addition to BRCA2 through RAD51-mediated homologous recombination. Oncogene. 2012 Sep 10. [Epub ahead of print]. PMID: 22964643.
- 12. Chun J, Buechelmaier ES, **POWELL SN**. Rad51 Paralog Complexes BCDX2 and CX3 Act at Different Stages in the BRCA1-BRCA2-Dependent Homologous Recombination Pathway. Mol Cell Biol. 2013; 33(2):387-95. PMID: 23149936.
- 13. Singh M, Hunt CR, Pandita RK, Kumar R, Yang CR, Horikoshi N, Bachoo R, Sarag S, Story MD, Shay

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME	POSITION TITLE
Jerome Ritz, M.D.	Professor of Medicine
eRA COMMONS USER NAME (credential, e.g., agency login) JEROME_RITZ	Executive Director, Connell O'Reilly Cell Manipulation Core Facility
EDUCATION/TRAINING (Begin with baccalaureate or other initial pro	ofessional education, such as nursing, include postdoctoral training and

residency training it applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Northwestern University, Evanston, IL	B.A.	1968	
Chicago Medical School, Chicago, IL	M.D.	1972	Medicine
University of Wisconsin Hospitals, Madison, WI		1972-75	Internal Medicine
Beth Israel Hospital, Boston, MA		1975-76	Hematology/Oncology

A. Personal Statement

My research laboratory focuses on reconstitution and maintenance of donor immunity after allogeneic hematopoietic stem cell transplantation (HSCT). In this setting, there is compelling evidence that donor immunity plays a critical role in elimination of residual tumor cells (termed graft vs leukemia or GVL) as well as graft vs host disease (GVHD). Individual projects focus on the role of T cells, regulatory T cells, NK cells and B cells in GVL and GVHD. Mechanistic studies focus on the identification of specific antigenic targets of T, B and NK cell responses and how these immune responses are maintained and regulated in vivo. All of our studies are carried out with samples obtained from patients undergoing stem cell transplantation and lay the foundation for the development of novel methods to specifically modulate immune reconstitution and tumor immunity following HSCT. I am also the Executive Director of the Cell Manipulation Core Facility (CMCF) of the Dana-Farber/Harvard Cancer Center. The CMCF is a GMP cell manufacturing facility that provides a variety of cellular products for patients enrolled on clinical research protocols, including hematopoietic stem cells, cancer vaccines, immune cells for adoptive therapy, genetically modified cells and cells for regenerative medicine. I am also Director of the Pasquarello Tissue Bank for Hematologic Malignancies at DFCI and Associate Director for Core Facilities and member of the Executive Committee of the Dana-Farber/Harvard Cancer Center.

B. Positions and Honors

1990

Positions and	Employment
1980 - 1981	Instructor in Medicine, Harvard Medical School, Boston, MA
1981 - 1984	Assistant Professor of Medicine, Dana-Farber Cancer Institute and Harvard Medical School
1984 - 1996	Associate Professor of Medicine, Dana-Farber Cancer Institute and Harvard Medical School
1993 - 1997	Clinical Director, Division of Hematologic Malignancies, Dana-Farber Cancer Institute
1996 - 2011	Director, Connell O'Reilly Cell Manipulation Core Facility, Dana-Farber Cancer Institute
1996 -	Professor of Medicine, Dana-Farber Cancer Institute and Harvard Medical School
1997 - 1999	Director, Center for Hematologic Oncology, Dana-Farber Cancer Institute
1999 - 2011	Senior Editor and Deputy Editor, Clinical Cancer Research
2003 -	Associate Director for Core Facilities, Dana-Farber/Harvard Cancer Center (DF/HCC)
2004 -	Co-Director, Center for Human Cell Therapy, Boston Children's Hospital and Dana-Farber
	Cancer Institute
2005 -	Co-Director, Cancer Vaccine Center, Dana-Farber Cancer Institute
2005 -	Executive Committee and Principal Faculty, Harvard Stem Cell Institute
2011 -	Executive Director, Connell O'Reilly Cell Manipulation Core Facility, DF/HCC
Honors	
1983 –1988	Scholar, Leukemia Society of America
1988	Stohlman Scholar Award, Leukemia Society of America

American Society for Clinical Investigation

C. Selected Peer-Reviewed Publications (from 330 original peer-reviewed publications)

- Matsuoka KI, Kim HT, McDonough S, Warshauer B, Bascug G, Warshauer B, Koreth J, Cutler C, Ho VT, Alyea EP, Antin JH, Soiffer RJ, Ritz J. Altered regulatory T-cell homeostasis in patients with CD4 lymphopenia following allogeneic hematopoietic stem cell transplantation. J Clin Invest 2010; 120:1479-1493. PMCID: 2860902
- 2. Kawano Y, Kim HT, Matsuoka K-I, Bascug G, McDonough S, Ho VT, Cutler C, Koreth J, Alyea EP, Antin JH, Soiffer RJ, **Ritz J**. Low telomerase activity in CD4+ regulatory T cells in patients with severe chronic GVHD after hematopoietic stem cell transplantation. Blood 2011; 118:5021-5030. PMCID: 3208307
- 3. Sarantopoulos S, Stevenson KE, Kim HT, Washel WS, Bhuiya NS, Cutler CS, Alyea EP, Ho VT, Soiffer RJ, Antin JH, **Ritz J**. Recovery of B-cell homeostasis after rituximab in chronic graft-versus-host disease. Blood. 2011;117:2275-83. PMCID: 3062333.
- Koreth J, Matsuoka K-I, Kim HT, McDonough SM, Bindra B, Alyea EP, Armand P, Cutler C, Ho VT, Treister NS, Bienfang DC, Prasad S, Tzachanis D, Joyce RM, Avigan DE, Antin JH, Ritz J, Soiffer RJ. Interleukin-2 and regulatory T cells in chronic graft versus host disease. N Engl J Med 2011; 365:2055-66. PMCID: 3727432
- 5. Hu D, Liu X, Zeng W, Weiner HL, **Ritz J**. A clonal model for human CD8⁺ regulatory T cells: unrestricted contact-dependent killing of activated CD4⁺ T cells. Eur J Immunol 2012; 42:69–79. PMCID: 3251657
- Jacobson CA, Turki AT, McDonough SM, Stevenson KE, Kim HT, Kao G, Herrera MI, Reynolds CG, Alyea EP, Ho VT, Koreth J, Armand P, Chen Y-B, Ballen K, Soiffer RJ, Antin JH, Cutler C, Ritz J. Immune reconstitution after double umbilical cord blood stem cell transplantation: comparison with unrelated peripheral blood stem cell transplantation. Biol Blood Marrow Transplant 2012; 18:565-574. PMCID: 3288552
- 7. Bellucci R, Nguyen H-N, Martin A, Heinrichs S, Schinzel AC, William C. Hahn WC, **Ritz J**. Multiple tyrosine kinase pathways modulate tumor susceptibility to human natural killer cells. J Clin Invest 2012; 122:2369-2383. PMCID: 3386806
- 8. Chen Y-B, McDonough S, Hasserjian R, Chen H, Coughlin E, Illiano C, Park IS, Jagasia M, Spitzer TR, Cutler CS, Soiffer RJ, **Ritz J**. Expression of CD30 in patients with acute graft-vs.-host disease. Blood 2012; 120:691-696. PMCID: 3401221
- 9. Hu D, Weiner HL, **Ritz J**. Identification of cytolytic CD161⁻CD56⁺ regulatory CD8 T cells in human peripheral blood. Plos One 2013 March 19:8(3): e59545. PMCID: 3602421.
- 10. Burkhardt UE, Hainz U, Stevenson K, Goldstein NR, Pasek M, Naito M, Wu D, Ho VT, Alonso A, Hammond NN, Wong J, Sievers QL, Brusic A, McDonough SM, Zeng W, Perrin A, Brown JR, Canning CM, Koreth J, Cutler C, Armand P, Neuberg D, Lee JS, Antin JH, Mulligan RC, Sasada T, Ritz J, Soiffer RJ, Dranoff G, Alyea EP, Wu CJ. Autologous CLL cell vaccination early after transplant induces leukemia-specific T cells. J Clin Invest. 2013;123:3756-65. PMCID: 3754265.
- 11. Cutler C, Kim HT, Bindra B, Sarantopoulos S, Ho VT, Chen YB, Rosenblatt J, McDonough S, Watanaboonyongcharoen P, Armand P, Koreth J, Glotzbecker B, Alyea E, Blazar BR, Soiffer RJ, **Ritz J**, Antin JH. Rituximab prophylaxis prevents corticosteroid-requiring chronic GVHD after allogeneic peripheral blood stem cell transplantation: results of a phase 2 trial. Blood. 2013;122:1510-7. PMCID: 3750344.
- 12. Matsuoka K, Koreth J, Kim HT, Bascug G, McDonough S, Kawano Y, Murase K, Cutler C, Ho VT, Alyea EP, Armand P, Blazar BR, Antin JH, Soiffer RJ, **Ritz J**. Low-dose interleukin-2 therapy restores regulatory T cell homeostasis in patients with chronic graft-versus-host disease. Sci Transl Med. 2013;5:179ra43. PMCID: 3686517.
- 13. Nikiforow S, Kim HT, Bindra B, McDonough S, Glotzbecker B, Armand P, Koreth J, Ho VT, Alyea EP, 3rd, Blazar BR, **Ritz J**, Soiffer RJ, Antin JH, Cutler CS. Phase I study of alemtuzumab for therapy of steroid-refractory chronic graft-versus-host disease. Biol Blood Marrow Transplant. 2013;19:804-11. PMCID: 3642980.
- 14. Bachireddy P, Hainz U, Rooney M, Pozdnyakova O, Aldridge J, Zhang W, O'Connell K, Haining WN, Goldstein NR, Canning CM, Soiffer RJ, Ritz J, Hacohen N, Alyea EP, Kim HT, Wu CJ. Reversal of in situ T cell exhaustion during effective human anti-leukemia responses to donor lymphocyte infusion. Blood 2014; 123:1412-1241. PMCID: 3938152.

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME	POSITION TITLE
A1	
Alessandro Sette	Professor and Head
eRA COMMONS USER NAME (credential, e.g., agency login)	Division of Vaccine Discovery
ena commons osen maine (credential, e.g., agency login)	,
ASETTE	
AGETTE	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Liceo Classico "T. Tasso", Rome, Italy	Maturita	1979	Humanistic Studies
University of Rome, Rome, Italy	Laurea	1984	Immunology
Laboratory of Pathology, Casaccia, Rome, Italy	Postdoc	1984-1985	
National Jewish Center for Immunology and	Postdoc	1986-1988	
Respiratory Medicine, Denver, CO			

A. Personal Statement

Alessandro Sette, Dr. Biol.Sc., has devoted more than 25 years to understanding and measuring immune responses, and developing disease intervention strategies against autoimmunity, cancer and infectious diseases. Working in the laboratory of Howard Grey in Denver, he was involved in some of the original studies demonstrating peptide binding to MHC Class II molecules, and developed the first computerized allele specific prediction based on sequence analysis. In subsequent studies, while at Cytel corporation, he investigated the use of peptides to modulate autoimmunity and in the early 1990s discovered the phenomenon of TCR antagonism. TCR antagonism has been widely used as a strategy to modulate autoimmunity, infectious disease and cancer specific immune responses. His subsequent work showed that antigen analogs can also act in modulating immune responses (partial agonist) or even be associated with higher potency than cognate antigens (heteroclitic analogs). He currently directs the immune epitope database (IEDB) and specializes in identifying CD4 and CD8 activating peptide epitopes.

B. Positions and Honors

1988-1989	Staff Scientist, Cytel Corporation, San Diego, CA
1989-1990	Senior Staff Scientist, Cytel Corporation, San Diego, CA
1990-1992	Associate Director of Immunochemistry, Cytel Corporation, San Diego, CA
1992-1994	Director of Immunochemistry, Cytel Corporation, San Diego, CA
1994-1996	Director of Immunology, Cytel Corporation, San Diego, CA
1996-2002	Chief Scientific Officer, Epimmune Inc., San Diego, CA
2002-Present	Tenured Member, La Jolla Institute for Allergy and Immunology, San Diego, CA

1994-1996	Director of immunology, Cytel Corporation, San Diego, CA
1996-2002	Chief Scientific Officer, Epimmune Inc., San Diego, CA
2002-Present	Tenured Member, La Jolla Institute for Allergy and Immunology, San Diego, CA
Other Experier	nce and Professional Membership
1992-1998	Associate Editor, the Journal of Immunology
1993-	Peer Review Consultant, National Institutes of Health and National Cancer Istitute
1994-1997	Member, Arthritis Foundation Study Section, Cellular Immunology
1996	Ad Hoc Consultant for National Science Foundation, European Science Institute, Instituto
	Superiore di Sanita, Wellcome Trust, ITN and other funding agencies
1998-1999	Member, HIV Vaccines Study Session, National Institutes of Health
1998	Editorial Board Member: Human Immunology, Current Pharmaceutical Biotechnology; Current
	Drugs, Tissue Antigens
2002-2005	Vice President, American Liver Foundation, San Diego Chapter
2002	Member, Gerson Lehman Council of Healthcare Advisors
2002-2007	Adjunct Professor, The Scripps Research Institute, San Diego, CA
2003-2009	Adjunct Professor, University of California, San Diego, CA

Editorial Board Member: for Human Immunology, Current Pharmaceutical Biotechnology; Current Drugs, Tissue Antigens, Immunogeneitcs, Expert Rev Vaccines, Open Immunol and PLoS One. Memberships: Amer Assoc Immunologists, Amer Assoc Microbiologists, Amer Soc Microbiol, Amer Chemical Soc, Protein Soc, NY Acad Sci, Amer Assoc Cancer Res

C. Selected Peer-Review Publications (492 publications; 96 reviews/chapters)

- Rivoltini L, Kawakami Y, Sakaguchi K, Southwood S, Sette A, Robbins PF, Marincola FM, Salgaller ML, Yannelli JR, Appella E, et al. Induction of tumor-reactive CTL from peripheral blood and tumor-infiltrating lymphocytes of melanoma patients by in vitro stimulation with an immunodominant peptide of the human melanoma antigen MART-1. J Immunol. 1995;154(5):2257-65. PMID:7868898.
- Kawakami Y, Eliyahu S, Jennings C, Sakaguchi K, Kang X, Southwood S, Robbins PF, Sette A, Appella E, Rosenberg SA. Recognition of multiple epitopes in the human melanoma antigen gp100 by tumor-infiltrating T lymphocytes associated with in vivo tumor regression. J Immunol. 1995;154(8):3961-8. PMID:7706734.
- Bocchia M, Wentworth PA, Southwood S, Sidney J, McGraw K, Scheinberg DA, Sette A. Specific binding of leukemia oncogene fusion protein peptides to HLA class I molecules. Blood. 1995;85(10):2680-4. PMID: 7742526.
- Ressing ME, Sette A, Brandt RM, Ruppert J, Wentworth PA, Hartman M, Oseroff C, Grey HM, Melief CJ, Kast WM. Human CTL epitopes encoded by human papillomavirus type 16 E6 and E7 identified through in vivo and in vitro immunogenicity studies of HLA-A*0201-binding peptides. J Immunol. 1995;154(11):5934-43. PMID: 7538538.
- Celis E, Sette A, Grey HM. Epitope selection and development of peptide based vaccines to treat cancer. Semin Cancer Biol. 1995;6(6):329-36. Review. PMID: 8938271.
- Ressing ME, van Driel WJ, Celis E, Sette A, Brandt MP, Hartman M, Anholts JD, Schreuder GM, ter Harmsel WB, Fleuren GJ, Trimbos BJ, Kast WM, Melief CJ. Occasional memory cytotoxic T-cell responses of patients with human papillomavirus type 16-positive cervical lesions against a human leukocyte antigen-A *0201-restricted E7-encoded epitope. Cancer Res. 1996;56(3):582-8. PMID: 8564975.
- Bocchia M, Korontsvit T, Xu Q, Mackinnon S, Yang SY, Sette A, Scheinberg DA. Specific human cellular immunity to bcr-abl oncogene-derived peptides. Blood. 1996 87(9):3587-92. PMID: 8611681.
- Topalian SL, Gonzales MI, Parkhurst M, Li YF, Southwood S, Sette A, Rosenberg SA, Robbins PF. Melanoma-specific CD4+ T cells recognize nonmutated HLA-DR-restricted tyrosinase epitopes. J Exp Med. 1996;183(5):1965-71. PMC2192565.
- Parkhurst MR, Salgaller ML, Southwood S, Robbins PF, Sette A, Rosenberg SA, Kawakami Y. Improved induction of melanoma-reactive CTL with peptides from the melanoma antigen gp100 modified at HLA-A*0201-binding residues. J Immunol. 1996;157(6):2539-48. PMID: 8805655.
- Alexander M, Salgaller ML, Celis E, Sette A, Barnes WA, Rosenberg SA, Steller MA. Generation of tumor-specific cytolytic T lymphocytes from peripheral blood of cervical cancer patients by in vitro stimulation with a synthetic human papillomavirus type 16 E7 epitope. Am J Obstet Gynecol. 1996;175(6):1586-93. PMID: 8987945.
- Tsai V, Southwood S, Sidney J, Sakaguchi K, Kawakami Y, Appella E, Sette A, Celis E. Identification of subdominant CTL epitopes of the GP100 melanoma-associated tumor antigen by primary in vitro immunization with peptide-pulsed dendritic cells. J Immunol. 1997;158(4):1796-802. PMID: 9029118.
- Salazar-Onfray F, Nakazawa T, Chhajlani V, Petersson M, Kärre K, Masucci G, Celis E, Sette A, Southwood S, Appella E, Kiessling R. Synthetic peptides derived from the melanocyte-stimulating hormone receptor MC1R can stimulate HLA-A2-restricted cytotoxic T lymphocytes that recognize naturally processed peptides on human melanoma cells. Cancer Res. 1997;57(19):4348-55. PMID: 9331097.
- Tanaka F, Fujie T, Tahara K, Mori M, Takesako K, Sette A, Celis E, Akiyoshi T. Induction of antitumor cytotoxic T lymphocytes with a MAGE-3-encoded synthetic peptide presented by human leukocytes antigen-A24. Cancer Res. 1997;57(20):4465-8. PMID: 9377553.
- Tsai V, Kawashima I, Keogh E, Daly K, Sette A, Celis E. In vitro immunization and expansion of antigenspecific cytotoxic T lymphocytes for adoptive immunotherapy using peptide-pulsed dendritic cells. Crit Rev Immunol. 1998;18(1-2):65-75. Review. PMID: 9419449.
- Kawashima I, Hudson SJ, Tsai V, Southwood S, Takesako K, Appella E, Sette A, Celis E. The multi-epitope approach for immunotherapy for cancer: identification of several CTL epitopes from various tumor-associated antigens expressed on solid epithelial tumors. Hum Immunol. 1998;59(1):1-14. PMID: 9544234.
- Steller MA, Gurski KJ, Murakami M, Daniel RW, Shah KV, Celis E, Sette A, Trimble EL, Park RC, Marincola FM. Cell-mediated immunological responses in cervical and vaginal cancer patients immunized with a lipidated epitope of human papillomavirus type 16 E7. Clin Cancer Res. 1998;4(9):2103-9. PMID: 9748126.
- Kono K, Rongcun Y, Charo J, Ichihara F, Celis E, Sette A, Appella E, Sekikawa T, Matsumoto Y, Kiessling R. Identification of HER2/neu-derived peptide epitopes recognized by gastric cancer-specific cytotoxic T



Cancer Prevention and Research Institute of Texas

Oversight Committee

Nominations Subcommittee Meeting

Peer Review Panel Nominations Product Development

- 1. Charles Jaffee, Ph.D
- 2. Chris A. Rallis, J.D.
- 3. Claude Nicaise, M.D.
- 4. Colin Turnbull Ph.D
- 5. Cora N. Sternberg M.D., F.A.C.P
- 6. Darrick T. Fu, MBA
- 7. David Edward Weng, M.D., Ph.D
- 8. Elaine Jones, Ph.D.
- 9. Grant A. Williams, M.D.
- 10. Judith A. Fox, Ph.D.
- 11. Michael Foley, Ph.D.
- 12. Lee Greenberger, Ph.D.
- 13. Michael Kurman, M.D.
- 14. Ramona M. Lloyd, Ph.D., RAC

BIOGRAPHICAL SKETCH			
NAME Charles Jaffe	POSITION TO		ficer, Health Level Seven, Inc.
eRA COMMONS USER NAME	Offici Exceditive Officer, Flediti Level Geven, Inc.		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Johns Hopkins University, Baltimore	BA	1967	Chemistry
Duke University, Durham	MD	1971	Medicine
Duke University, Durham	PhD	1972	Experimental Pathology
Duke University, Durham		1973	Medicine
National Institutes of Health, NIAID, Bethesda		1976	Immunology
Georgetown University, Washington		1978	Hematology/Oncology

A. Personal statement

As CEO of Health Level Seven and a member of the steering committees of the Cancer Bioinformatics Grid, NIH/NCI, Integrating the Healthcare Enterprise (IHE), and the Clinical Research Information Exchange (CRiX), NIH/NCI, Life Sciences Institute of Technology, CCHIT, and the Clinical Data Interchange Standards Consortium (CDISC), I have extensive experience in the area of clinical research and clinical information management. In addition to developing global programs for healthcare and research data integration, I have led the business development of multinational for-profit and non-profit organizations. My clinical experience includes division chairmanship and principal clinical investigator. Annually, I serve on grant review boards for the National Science Foundation and the NIH.

B. Positions and Honors

Positions and Employmer

1985-2000	Department of Medicine, Scripps Health, San Diego, CA
1987-1996	Assistant Clinical Professor, Department of Medicine, UCSD
1987-2000	Attending Physician, Department of Medicine, Scripps Health System, La Jolla
1991-2000	Director, Clinical Trials, Allergy & Immunology MG
1993-1998	Vice President, Biotechnology, San Diego Clinical Research, San Diego, CA
1995-1998	Western Regional Director, National Committee Program, Johns Hopkins University
1995-2000	President, InforMed, Inc., Del Mar, CA
2000-2004	Vice President Medical Informatics, AstraZeneca Pharmaceuticals LP, Wilmington, DE
2003-2007	Biosilico, Elsevier, Editor
2004-2005	Vice President Life Sciences, SAIC, La Jolla, CA
2004-2007	Professor, Department of Engineering, Penn State University, Great Valley
2005-2007	Senior Global Strategist, Digital Health Group, Intel Corporation, Santa Clara, CA
2007-	Chief Executive Officer, Health Level Seven, Inc.
2010-	Professor of Medicine, Department of Medicine, UCSD

Other Experience and Professional Memberships 1992-1997 Astra-CHAMPUS Advisory Board

1992-1997	Aetha-Champus, Advisory Board
1994-1997	BioMed Institutional Review Board, Chair
1997-2002	American Medical Informatics Association, Chair, Clinical Information Systems WG
2001-2007	Clinical Data Interchange Standards Consortium (CDISC), Board of Directors and Chair, Scientific
	Committee
2002-2003	Heath Information Management Systems Society, Principal Investigator, Longitudinal study of the
	impact of technology for the reduction of medical errors
2002-2004	American Medical Informatics Association, Chair, Professional Relations
2002-2006	Drug Information Association, Chair, Electronic Clinical Trials SIAC
2004-2011	Cancer Bioinformatics Grid, National Institutes of Health/National Cancer Institute, Steering
	0

Committee

2004-2011	Markle Foundation, Connecting for Health, Steering Confinitee	
2004-2005	Heath Information Management Systems Society, Advisory Board, HIMSS Committee on	
	Certification for the EHR	
2004-2006	FasterCures, Steering Committee for Clinical Research Integration	
2004-2006	Global Trial Bank, Clinical Trial Registry, Steering Committee, 2004-06 and Chair, 2006	
2005-	Clinical Research Information Exchange (CRiX), National Institutes of Health/National Cancer	
	Institute, Steering Committee	
2006-2007	Swiss Institute of Biotechnology, Board of Directors	
2007-	Open Health Tooling Collaborative, Board of Directors	
2008-2011	LSIT (Life Sciences) Global Institute, Board of Directors	
2008-	Biomedical Research Integrated Domain Group (BRIDG), Board of Directors	
2008-	Integrating the Healthcare Enterprise (IHE), International Board of Directors	
Awards and Honors		

Markle Foundation, Connecting for Health, Steering Committee

2004-2011

1966	Phi Beta Kappa, Johns Hopkins University
1971	Alpha Omega Alpha, Duke University Medical School
1967-1971	National Institutes of Health Medical Scientist
1971	American Academy of Allergy & Clinical Immunology Clinical Fellow
1978	WHO Clinical Medicine Award
1981	University of California Distinguished Faculty Award
1990	Institutional Review Board Distinguished Service Award
1997	NIH/National Library of Medicine, Medical Informatics Grantee
2003	American College of Medical Informatics, Fellow
2006	Penn State University, Distinguished Faculty Award
2002-2006	Editor, Biosilico, Elsevier LLC, London
2003	Fellow, American College of Medical Informatics
2008	Fellow, American College of Physicians
2008	Fellow, Royal Society of Medicine
2011	Federal 100 Awardee
2012	Robert Becker, Lifetime Achievement Award, AAAAI

C. Selected peer-reviewed publications

Jaffe, C, Hammond, WE, Quinn, J, Dolin, R. Healthcare Standards and the Standards Development Process. Int Tech J. 2009 Sep; 13(3): 58-79. PMID:

Blobel B, Chronaki C, Stegwee R, Grain H, Hammond WE, Jaffe C, Kalra D, Koehn M, Macary F, Sabutsch S, Sheetham E, Schulz S, Tan M: HL7 Affiliates Council. HL7's comprehensive standards set and its international collaboration for enabling semantically interoperable eHealth and pHealth solutions. Stud Health Technol Inform. 2009;150:982-6. PMID: 19745460

Hammond WE, Jaffe C, Kush RD. Healthcare standards development. The value of nurturing collaboration. J AHIMA. 2009 Jul;80(7):44-50. PMID: 19663144

Dolin RH, Rogers B, Jaffe C. Big Data, Incrementally Structured. In press.

D. Research Support

N/A

Chris A. Rallis

104 North Devimy Court Cary, North Carolina 27511 Home: (919) 461-0988 Cell: (919) 624-7885 E-mail: chrisrallisnc@gmail.com

SUMMARY

Team-oriented executive with diverse experience in general management, corporate law, business development and strategic planning areas of research-based and development stage pharmaceutical companies. Particular strengths include analytical, communication, negotiation and interpersonal skills and strategic focus. Successful record of completing transactions and achieving objectives in a timely and efficient manner.

PROFESSIONAL EXPERIENCE

A. M. PAPPAS & ASSOCIATES, LLC, Durham, NC, Executive-In-Residence January 2008 – Present

Served as an executive-in-residence (EIR) with A. M. Pappas & Associates (Pappas Ventures) responsible for heading an initiative to evaluate alternative enterprise models to support seed and early stage opportunities in the Florida life science sector. Project was terminated in January 2009. Since January 2009, continue to serve in EIR capacity, attending weekly portfolio review meetings, as well as presentations by some prospective portfolio companies.

CIRRUS PHARMACEUTICALS, INC., Durham, NC, Consultant

January 2011 - April 2011

Served as a consultant with Cirrus Pharmaceuticals, Inc., a formulation/product development contract research organization, to develop an operational plan to implement the objectives set forth in Cirrus' 2011-2015 Strategic Plan.

IMMUNOBIOSCIENCES, INC., Raleigh, NC.

April 2006 - June 2007

President, Chief Executive Officer and Board Member

ImmunoBiosciences (IBI) was a vaccine technology company focusing on the development of immune complex vaccines for use in the human and veterinary vaccine markets. Activities included leading the management team in the development of a strategic business plan, corporate presentations, a website and patenting strategies and making various presentations to a number of potential collaborators and investors. In addition, led management team in achieving milestone required for second tranche of Series A Financing in October 2006. IBI ceased operations in early 2011.

DUKE UNIVERSITY, Durham, NC, Consultant

Dec. 2005 - March 2006 July 2005 - Sept. 2005

Served as a consultant to Duke University in connection with its Medical School's translational research initiative. Responsible for preparation of business plan (in conjunction with team of consultants) and for assisting Duke senior management in preparation of presentations to Board of Trustees regarding implementation recommendations.

Served as a part-time executive-in-residence for Pappas Ventures, a venture capital partnership focusing on investments exclusively in the life science sector. Activities include participating in weekly portfolio review meetings and attending presentations by some prospective portfolio companies.

PANACOS PHARMACEUTICALS, INC., Gaithersburg, MD, Consultant

March 2004 - June 2004

Served as a corporate development consultant to Panacos, a privately owned HIV drug development company, in connection with a potential merger transaction. Responsible for coordination of due diligence activities with several potential acquirers and negotiation of term sheet and merger agreement with actual acquirer. Merger agreement between Panacos and V.I. Technologies, Inc. was signed in June 2004 and the merger closed in March 2005.

TRIANGLE PHARMACEUTICALS, INC., Durham, NC

Nov. 1995 – December 2002

A specialty pharmaceutical company, incorporated in 1995, focusing on the development of drugs to treat serious viral diseases, such as HIV. The Company was acquired by Gilead Sciences in January 2003 for \$464 million. The Company's first product was approved in both the U.S. and Europe in 2003.

President, Chief Operating Officer and Board Member

March 2000 - Dec. 2002

Responsible for general management of functional areas of the Company and, in conjunction with CEO and other executive officers, interfacing with financial and investment community, non-executive directors and shareholders. Supervisory responsibility for six executive vice presidents, one director and one administrative assistant. Member of the Board of Directors of the Company.

- Interim senior officer of the Company following death of CEO in January 2002 until appointment of successor in August 2002, during which time, the Company:
 - Successfully terminated collaboration with Abbott Laboratories on favorable terms.
 - Resolved two major intellectual property disputes.
 - Accelerated the preparation of its first NDA submission (beating publicly announced target submission date by one month).
- Led senior management team's implementation of corporate restructuring in August 2001 resulting in a 31% reduction in cash usage for the year.
- Participated on senior management team that developed the Company's first strategic plan.
- Led implementation of recommendations from a June 2000 Company survey in the areas of employee communications, career development and management and diversity training.
- Successfully recruited CFO and General Counsel within 90 days after appointment.
- Made Company presentations at numerous life science/healthcare investment conferences.
- Participated in negotiations of three equity financings in 2001 (with aggregate gross proceeds of \$133 million) and a \$100 million equity line of credit facility in November 2000.

<u>Executive Vice President, Business Development and General Counsel</u> Vice President, Business Development, General Counsel and Secretary Nov. 1995 – July 1999

Responsible for legal and business development activities of the Company. Areas of concentration in legal area included contract negotiation and drafting (e.g., intellectual property licenses), equity financing, securities laws compliance, and trademark, patent and customs matters. Business development activities included supervising scientific and commercial evaluations of licensing candidates and negotiation of commercial terms regarding intellectual property licenses. Secretariat responsibilities included administration of Board meetings and annual stockholders meetings. Supervisory responsibility for vice president of drug regulatory affairs (from August 1999 – March 2000), 1 attorney and 1 administrative assistant.

- Lead Company counsel and business development representative in negotiation of a \$335 million worldwide strategic alliance with Abbott Laboratories completed in 1999, which included 4 Company compounds and 2 Abbott products.
- Lead Company counsel and business development representative in negotiation of 5 license agreements and 2 option agreements for Company drug candidates, including 3 of which were consummated in less than a 1 month period in 1996.
- Lead Company counsel in 7 equity financings consummated during an approximate 3½-year period, with aggregate gross proceeds of approximately \$225 million, including the Company's initial public offering in 1996
- Lead Company counsel in \$15+ million acquisition of Avid Corporation in 1997.
- Lead Company counsel in negotiation of subleases for the Company's 100,000 square foot headquarters with Eli Lilly and Company.
- Lead Company counsel and business development representative in negotiation of license and settlement agreements with Glaxo Wellcome, Inc., resolving a patent dispute relating to one of the Company's drug candidates known as FTC.

BURROUGHS WELLCOME CO., Research Triangle Park, NC

July 1982 – August 1995

A research-based pharmaceutical company with approximately 5,000 employees and \$1.3 billion in U.S. sales in 1994. U.S. operating subsidiary of The Wellcome Foundation Limited with over \$3.3 billion in worldwide sales in 1994.

<u>Vice President, Planning and Business Development</u> 1994 – 1995 Director, Planning and Business Development 1993 – 1994

Responsible for business development activities of the Company in areas of product/technology licenses, research collaborations, co-promotion agreements, acquisitions and divestitures. Responsible for strategic planning activities of the Company, including the development of the Company's strategic plan and its assessment of strategic alternatives. Coordinated both business development and strategic planning activities with those of the U.K. parent company. Supervisory responsibility for 3 to 4 licensing professionals and 2 administrative assistants.

- Managed department that consummated a \$1 billion U.S. consumer healthcare products joint venture, a \$42 million license agreement and a \$17 million intellectual property acquisition within a 90-day period in 1993-1994.
- Participated in senior management review and selection of strategic alternatives in U.S. managed healthcare environment in 1994.
- Played a major role in the negotiation of a co-promotion agreement for Company's largest selling product with over \$450 million in U.S. sales in 1994.
- Participated on team that developed group-wide strategic plan in 1993.

Attorney, Corporate Law Section	1982 – 1993
Assistant General Counsel	1991 – 1993
Head of Corporate Law Section	1989 – 1993
Senior Counsel	1988 – 1991
Associate Counsel	1986 – 1988
Assistant Counsel	1982 – 1986

Responsible for providing legal advice to Company clients in general corporate law area, with primary emphasis on contract drafting and negotiation (including the following types of contracts: licenses, manufacturing, co-promotion, confidentiality, construction, real property purchases and leases, third-party equipment leases, research and computer software and hardware); antitrust compliance; trademark

registration and compliance; corporate acquisitions and divestitures; federal and state drug rebate laws; and miscellaneous tax and customs matters. Direct supervisory responsibility for 2 attorneys and indirect responsibility over a trademark assistant and a corporate legal assistant while head of Corporate Law Section.

- Lead Company counsel in negotiation of agreements relating to the formation of the Warner Wellcome Consumer HealthCare Products joint venture, with approximately \$1 billion in annual U.S. sales.
- Participated in U.S. divestitures of group's worldwide industrial hygiene, pesticide and animal health businesses.
- Lead Company counsel in negotiation of a \$50 million revolving credit and term loan agreement with major banking institution.
- Lead Company counsel in \$23 million purchase of minority partner's interest in biotechnology manufacturing joint venture.
- Lead Company counsel in \$13 million and \$7.5 million real estate purchases of buildings adjacent to Company headquarters.

WOMBLE, CARLYLE, SANDRIDGE & RICE, Winston-Salem, NC, Associate

Sept. 1978 - July 1982

A North Carolina law firm with approximately 50 attorneys during this period.

Areas of practice included term loan and asset-based financing as counsel to major southeastern bank; industrial development bond financing; representation of creditors in state and federal courts and in collection matters generally; and commercial and residential real estate transactions.

OTHER PROFESSIONAL ACTIVITIES

OXYGEN BIOTHERAPEUTICS, INC., Morrisville, NC

Dec. 2011 - Present

Member of Board of Directors of biopharmaceutical company traded on Nasdaq focusing on the development of therapies that effectively deliver oxygen to the tissues of the body using a proprietary perfluorocarbon oxygen carrier. Member of the Audit Committee.

ADHEREX TECHNOLOGIES INC., RTP, NC

August 2011 - Present

Member of Board of Directors of biopharmaceutical company traded on the Toronto Stock Exchange focusing on the development of cancer therapies. Appointed Chairman of the Audit Committee in October 2011.

AEOLUS PHARMACEUTICALS, INC., Mission Viejo, CA

June 2004 - Present

Member of Board Directors of publicly held pharmaceutical company focusing on the development of small molecule antioxidants for various indications, including as radiation protective agents. Appointed to Audit Committee in July 2004 and as Chairman of the Audit Committee in March 2011.

Member of the Board of Directors of a privately owned, software development company to provide computer-based therapeutic decision support in certain disease areas. TherapyEdge, Inc. was spun off from Triangle Pharmaceuticals, Inc. in early 2000. Member of Compensation Committee from December 2000 through December 2002.

INTER-COMPANY COLLABORATION FOR AIDS DRUG DEVELOPMENT April

April 1998 - April 2001

Chairperson of the Legal Committee of the Inter-Company Collaboration for AIDS Drug Development, a consortium of the leading pharmaceutical companies in the area of AIDS drug development.

EDUCATION

Duke University School of Law Durham, North Carolina J.D. with honors 1978 Class Rank: Top 10% Order of the Coif

Harvard College Cambridge, Massachusetts A.B. 1975 (Economics) Magna cum laude

Directors' College Program
National Association of Corporate Directors
2006 and 2012

Wellcome Senior Management Forum London Business School 1993

Burroughs Wellcome Management Institute University of North Carolina at Chapel Hill 1987-1988

PROFESSIONAL ORGANIZATIONS

North Carolina State Bar North Carolina Bar Association National Association of Corporate Directors

Claude Nicaise, M. D.

319 Redstone Drive, Cheshire Ct 06410

Phone: +1-203-272-3213 Cellular: +1-203-843-3847

Email: cnicaise01@gmail.com

Education: 1976: Université Libre de Bruxelles

Graduate in Medicine

1981 : Université Libre de Bruxelles

Postgraduate in Internal Medicine and

Clinical Oncology

<u>Languages</u>: French - English

Professional Experience:

2008 – 2013 Senior Vice-President Strategic Development and Global

Regulatory Affairs, Alexion Pharmaceutical

Cheshire, CT

2004 – 2008 Vice-President Global Development- Dasatinib Project Leader

Bristol-Myers Squibb Pharmaceutical Research Institute

Wallingford, CT

2001 – 2004 : Vice-President Worldwide Regulatory Science, Global

Regulatory Strategy,

Bristol-Myers Squibb Pharmaceutical Research Institute

Wallingford, CT

2000 – 2001 Vice-President Worldwide Regulatory Science and Strategy

Oncology, Infectious Disease and NeuroScience,

Bristol-Myers Squibb Pharmaceutical Research Institute

Wallingford, CT

1992 - 1999 : Executive Director Infectious Diseases Clinical Research

Bristol-Myers Squibb Pharmaceutical Research Institute

Wallingford, CT

1984 - 1992 : Director Clinical Cancer Research

Bristol-Myers Pharmaceutical Research and Development

Wallingford, CT

1983 - 1984 : Medical Advisor - Oncology

Laboratoire Bristol Benelux Brussels – Belgium

1981 - 1982 : Staff Medical Oncologist,

Hopital Braine l'Alleud Waterloo - Belgium

1978 - 1981 : Oncology Fellow

Institut Jules Bordet Brussels – Belgium

1977 - 1978 : Resident Internal Medicine

Hopital Braine l'Alleud Waterloo - Belgium

1976 - 1977 : Resident Internal Medicine

I.M.C. Schaerbeek - Belgium

Professional Achievements

Designed, executed and provided regulatory leadership for the filing and approval of fourteen new molecular entities in various disease area including oncology, infectious disease, virology, neuroscience and rare diseases.

Etoposide (Vepesid®) IV for the treatment of small cell lung cancer (US, 1986)

Etoposide (Vepesid®) oral for the treatment of small cell lung cancer (US, 1986)

Ifosfamide (Ifex®) for the treatment of non-small cell lung cancer (US, 1988)

Mesna (Mesnex®) as a uroprotector for patients treated with ifosfamide (US, 1989)

Didanosine (Videx®) for the treatment of HIV (Worldwide, 1991)

Cefepime (Maxipime®) initial filing for the treatment of pneumonia, bronchitis, UTI, skin infections (Worldwide, 1994)

Cefepime (Maxipime®) supplemental indications for the treatment of febrile neutropenia, intraabdominal infections, pediatric (Worldwide, 1997-1998)

Cefprosil (Cefzil®) initial filing for the treatment of bronchitis, sinusitis, otitis, skin infections, pharyngitis (Europe, 1994)

Gatifloxacin (Tequin®) oral for the treatment of pneumonia, bronchitis, sinusitis, skin, UTI, gonorrhea (Worldwide 2000)

Gatifloxacin (Tequin®) IV (same indications) (Worldwide, 2000)

Aripiprazole (Abilify®) for the treatment of schizophrenia (Worldwide, 2002)

Atazanavir (Reyatase®) for the treatment of HIV (Worldwide 2003)

Cetuximab (Erbitux®) for the treatment of colorectal cancer (US, 2004)

Dasatinib (Sprycel®) for the treatment of CML and PH+ ALL (Worldwide, 2006)

Eculizumab (Soliris®) for the treatment of PNH (Japan 2010)

Eculizumab (Soliris®) for the treatment of atypical Hemolytic Uremic Syndrome (Worldwide 2011)

Coordinated and executed the early development programs for small molecules and biologics and provided regulatory leadership for the filing and approval of IND submission in the US as well as CTA submissions in Europe and CTN submissions in Japan

Extensive experience with worldwide Regulatory Authorities including US-FDA, European Medicine Agency, Japan Pharmaceutical and Medical Device Agency as well as numerous national Agencies in Europe, Asia and Latin America. This included coordination, preparation

of supportive documents and conduct of regulatory meetings at all stage of development (pre-IND, end of phase I, end of phase II, pre-NDA/BLA) in the US, central and national scientific advice in Europe, Pediatric Investigation Plan and meeting with local Health Authorities in Asia and Latin America. Preparation, coordination and presentation at Advisory Committee meetings in various FDA Divisions.

Professional Affiliations:

1984 - Present	Member, American Society of Clinical Oncology
1984 - Present	Member, American Association Cancer research
1991 - 2008,	Member, European Society for Medical Oncology
1993 - 2002,	Member, American Society for Microbiology
2006 - Present	Member, American Society of Hematology

Biography:

62 publications in peer-reviewed journals and 63 abstracts in international meetings (available upon request)

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- 2. Terwinghe, G., Daumerie, J., Nicaise, C., Rosillon, O. Effet therapeutique du piracetam dans un cas de myoclonies d'action postanoxique. Acta Neurologica Belgica. 78: 30-36, 1978.
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ABSTRACTS PRESENTED IN MEETINGS II

(as a Member of the EORTC Lung Cancer Working Party)

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- 2. Klastersky, J., Sculier, J.P., Weerts, D., and the EORTC Lung Cancer Working Party. Combination chemotherapy with cyclophosphamide, adriamycin and etoposide for small cell carcinoma of the lung (SCLC). Proceedings of the American Society of Clinical Oncology, Vol. 2, 1983; abstract #C-732.
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- 4. Sculier, J.P., Klastersky, J., Weerts, D., Mommen, P., and the EORTC Lung Cancer Working Party. Comparative study of high (120 mg/m5) versus standard (60 mg/m5) dose of cisplatin in combination with etoposide in the treatment of non-small cell bronchogenic carcinoma. 13th International Congress of Chemotherapy, Vienna, 1983.
- 5. Sculier, J.P., Klastersky, J., Weerts, D., Mommen, P., and the EORTC Lung Cancer Working Party. Combination chemotherapy with cyclophosphamide, adriamycin, etoposide and cisplatin for small cell carcinoma of the lung. 13th International Congress of Chemotherapy, Vienna, 1983.

PRESENTATIONS

- 1. Combination chemotherapy with cisplatin (CDDP) and VP-16 in non-small cell (NSC) bronchogenic carcinoma. II World Conference on Lung Cancer, Copenhagen, 1980.
- 2. Therapy of small cell bronchogenic carcinoma with cisplatinum, VP-16-213 and adriamycin. European Society for Medical Oncology, Nice, 1982.
- 3. Combination of chemotherapy with cisplatin, etoposide, and vindesine in non-small cell lung cancer. UICC Conference on Clinical Oncology, Lausanne, 1981.
- 4. Phase I clinical trial with marcellomycin. Third NCI-EORTC Symposium on New Drugs in Cancer Therapy, Brussels, 1981.
- 5. Combination chemotherapy with cisplatin, etoposide and adriamycin in small cell bronchogenic carcinoma. First International Symposium on the Podophyllotoxins in Cancer Therapy, Southampton, 1981.
- 6. Chemotherapy with etoposide and cisplatin in non-small cell bronchogenic carcinoma. First International Symposium on the Podophyllotoxins in Cancer Therapy, Southampton, 1981.
- 7. Cisplatin (CDDP), etoposide (VP-16) and vindesine (VDA) in non-small cell bronchogenic carcinoma (NSCBC). American Society of Clinical Oncology, 1982.
- 8. Phase I clinical trial of marcellomycin. American Association for Cancer Research, 1982.
- 9. Phase II trial with a combination of dacarbazine (DTIC) and mitomycin C (MMC) in advanced colorectal cancer. European Society for Medical Oncology, 1982.
- 10. Percutaneous subclavian vein placement of the broviac catheter. European Society for Medical Oncology, 1982.
- 11. Phase I trial of marcellomycin with a single dose schedule. European Society for Medical Oncology, 1982.
- 12. Phase I study of cis-diammine I, 1-cyclobutanedicarboxyplate platinum II (CBDCA) given on a five-day I.V. schedule. European Society for Medical Oncology, 1982.
- 13. Phase I clinical trial of carboplatin (CBDCA) administered at a five-day schedule. American Association for Cancer Research, 1983.
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- 15. Ambulatory use of epidural morphine in cancer patients. Second European Conference on Clinical Oncology, Amsterdam, 1983.
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- 17. Overcoming Drug Resistance: New Developments in Cancer Therapy. University of Pennsylvania, 1990.
- 18. Surgical adjuvant therapy of colorectal cancer: Review of recent developments. 6th Nagoya International Symposium on Cancer Treatment Nagoya, Japan, 1990.
- 19. Cefepime as Empiric Monotherapy for the Treatment of Febrile Episodes in Neutropenic Patients. 2nd International Symposium on Febrile Neutropenia, Brussels, Belgium 1995.

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1/88-7/92 Consultant Physician Department of Medicine for Cancer and Allied Diseases, Memorial Hospital New York, New York 10/88-12/92 Consultant Physician Regina Elena Cancer Institute for Cancer Research 1st Division of Medical Oncology Rome, Italy 9/89-4/95 Chairman, Advanced Bladder Cancer Group E.O.R.T.C. Genito-Urinary Group 1/93-6/95 **Consultant Oncologist** C.T.O. Hospital Rome, Italy 6/95-7/00 Chief, Department of Medical Oncology San Raffaele Scientific Institute Rome, Italy 1/96 Faculty Member, European School of Oncology **European Association of Oncology** 2/96-Member, Group for Recommendations and Guide-Lines in Onco-Urology for the European Association of Urology 2/98-99 Consultant, Medical Oncology Regional General Hospital F. Miulli Acqua Viva Della Fonti Bari, Italy Faculty Member, Educational Committee of 3/98the European Society of Medical Oncology (ESMO) 8/00-Medical Oncology Vincenzo Pansadoro Foundation Clinic Pio XI Rome, Italy

10/00-6/02	Member
	New Treatment Committee of the EORTC
3/01-	Consultant Physician, Medical Oncology Research Department of Urology Lahey Clinic Burlington, Massachusetts, USA
3/02-	Adjunct Professor of Urology & Urologic Oncology Tuft's University School of Medicine, and Lahey Clinic Boston, Massachusetts, USA
7/02-7/03	Assistant Attending Professor of Medicine Department of Medicine Medical Oncology Columbia Presbyterian Hspital New York, New York, USA
9/02-	Chairman, Department of Medical Oncology San Camillo and Forlanini Hospitals Rome, Italy
3/03-06	Elected Board Member of the EORTC
9/03-12/13	Member, Ethical Committee San Camillo Forlanini Hospital Rome, Italy
3/04-08	Member, Protocol Review Committee of the EORTC
10/04-	Member, Clinical Trials Advisory Board UK
12/04-	President, Samuel and Barbara Sternberg Cancer Research Foundation - ONLUS in Italy
02/05-	Member, UICC TNM Genitourinary Expert Advisory Panel

02/05-Professor at La Sapienza University in the Second Faculty of Medicine in the School of Medical Oncology Specialization 02/05-Professor at La Sapienza University in the First Faculty of Medicine in the School of Medical Oncology Specialization 3/05-9/06 Chairman of the Division of Medical Oncology San Camillo and Forlanini Hospitals, Rome, Italy 2005- 2008 ASCO International Affairs Committee Advisory Group 9/2006-Vice-Chairman, Department of Internal Medicine San Camillo and Forlanini Hospitals Rome, Italy 2006 - 2011 Coordinator, Genitourinary Oncology Education for the European Society of Medical Oncology (ESMO) 2006-2008 Elected Member, Treasurer and Executive Board Member European Organization for Research and Treatment of Cancer (EORTC) 2007-Kidney Cancer Association Medical Advisory Board Member 2009-2011 Coordinator, Genitourinary Oncology Education for the European Society of Medical Oncology (ESMO) 2009-2010 Elected Member of the Nominating Committee of ESMO 2009-European School of Oncology (ESO) Task Force Member for Multidisciplinary Approach to Prostate Cancer 2009-Chairman of the Scientific Advisory Board of the Columbus Cancer Foundation (CCF) 2009-2012 Elected Board Member of the European Organization for Research and Treatment of Cancer (EORTC) 2009-Adjunct Professor in the College of Science & Technology

Department of Biology, Temple University, Philadelphia, Pennsylvania, USA

- 2011- International Scientific Advisory Board (ISAB) Member, Istituto Toscano Tumori (ITT)
- 2011-2014 Elected Nominating Committee for the ESMO President
- 2012- Executive Board of the EORTC Genitourinary Cancer Group
- 2013- Member, International Academic Advisory Council Prostate Cancer
- 2013- Member for 3 year term and Track Leader of the Genitourinary Cancer Track of the Scientific Program Committee beginning on June 5, 2013, for the 2014 ASCO Annual Meeting

Coordinator Protocols (selected):

- 2010- European Principal Investigator, Phase II Study of Dovitinib (TKI258) in Advanced Urothelial Carcinoma
- 2010- Principal Investigator, A randomized, double-blind, placebocontrolled phase III study to evaluate the efficacy and safety of pazopanib as adjuvant therapy for subjects with localized or locally advanced RCC following nephrectomy
- 2010 Steering Committee, A Safety and Efficacy Study of Oral MDV3100 in Chemotherapy-Naive Patients With Progressive Metastatic Prostate Cancer (PREVAIL)
- 2010- European Principal Investigator, A Phase 3 Randomized, Double-Blind, Placebo-Controlled Study of Tasquinimod in Men with Metastatic Castrate-Resistant Prostate Cancer
- 2012- Principal Investigator, Phase II randomized comparative trial of TAK-700 (Orteronel) versus bicalutamide in metastatic prostate cancer

patients failing 1st line treatment with LHRH agonists for the EORTC

2012- Steering Committee, COMIT -1 Study of Cabozantinib (XL184) Versus Prednisone in Men With Metastatic Castration-resistant Prostate Cancer Previously Treated With Docetaxel and Abiraterone or MDV3100

Steering Committee, A Randomized multicenter phase II/III trial, comparing early combination of Ra223 and enzalutamide vs. delayed treatment with Ra223 after progression on enzalutamide in asymptomatic or mildly symptomatic chemotherapy naïve castration resistant prostate cancer patients metastatic to bone (M+CRPC) for the EORTC

2013- European Principal Investigator, A Multinational, Phase 3, Randomized, Double-Blind, Placebo-Controlled, Efficacy and Safety Study of Enzalutamide in Patients With Nonmetastatic Castration-Resistant Prostate Cancer

European Principal Investigator, A three arm randomized open-label Phase II study of radium-223 dichloride 50 kBq/kg versus 80 kBq/kg, and versus 50kBq/kg in an extended dosing schedule in subjects with castration-resistant prostate cancer metastatic to the bone

Program Chairman (selected):

2004	Chairman, SIU Committee for Neo-Adjuvant and Adjuvant Chemotherapy Guidelines, Honolulu, Hawaii October 2004
2004-2005	Chairman Scientific Committee for GU Cancer for the ECCO 13 Meeting Paris, France October 2005
2005	Co-Chairman, 4th International Symposium on Genitourinary Cancers, Los Angeles, California
2005	Scientific Committee for Genitourinary Cancer for the ESMO Meeting Vienna, Austria

2006	ASCO Scientific Program Committee Chairman for the Multidisciplinary ASCO Prostate Cancer Symposium, San Francisco, February 2006
2006	Co-Chairman, 5th International Symposium on Genitourinary Cancers, Los Angeles, California, January 2006
2006	Scientific Advisory Board, 4th International Symposium Targeted Anticancer Therapy, Amsterdam, March 2006
2006	Member ESMO Prostate Cancer Symposium Scientific Steering Committee
2006	Member ESMO 2006 Scientific Steering Committee
2006-2007	Scientific Committee for GU Cancer for the ECCO 14 Meeting Barcelona, Spain September 2007
2006-	Task Force Member of the Methodology for the Development of Innovative Cancer Therapies (MDICT)
2007	Scientific Advisory Board, 5th International Symposium Targeted Anticancer Therapy, Amsterdam, March 2007
2007	ASCO Steering Committee Chairman for Multidisciplinary ASCO Prostate Cancer Symposium, Orlando, Florida February 2007
2006-2007	ESMO Sub- Committee Scientific Chariman for ESMO Congress in Stockhom, Sweden September 2008
2007	Medical Oncology Scientific Chairman, First ESMO, ESTRO, EAU and EORTC Joint Annual Multidisciplinary Prostate Cancer Meeting: Embracing Excellence in Prostate and Kidney Cancer
2008	ASCO Program Committee International Representative for the GU Cancers Symposium, San Francisco, February 2008

2008	Scientific Advisory Board, 6th International Symposium Targeted Anticancer Therapy, Washington, March 2008
2009	ASCO Program Committee International Representative for the GU Cancers Symposium, Bladder Track Chairman Orlando, Florida February 2009
2009	Scientific Advisory Board, 7th International Symposium Targeted Anticancer Therapy, Amsterdam, March 2009
2010-	Scientific Steering Committee Member SIUrO (Italian Society Oncologic Urology), Rome, June 2010
2010	Scientific Advisory Board, 8th International Symposium Targeted Anticancer Therapy, Washington, March 2010
2010	European Kidney Cancer Association Scientific Steering Committee, London, England May 7-8, 2010
2011	Scientific Advisory Board, 8th International Symposium Targeted Anticancer Therapy, Paris, France March 2011
2011	European Kidney Cancer Association Scientific Steering Committee Chairman, Warsaw, Poland, May 6-7, 2011
2012	European Kidney Cancer Association Scientific Steering Committee Chairman, Vienna, Austria, May 4-5, 2012
2013	European Kidney Cancer Association Scientific Steering Committee Chairman, Budapest, Hungary, May 3-4, 2013
2013	Scientific Co-Chairman, ECCO-ESMO-ESTRO Multidisciplinary Cancer Congress Amsterdam, The Netherlands September 27-October 1, 2013
2013-2015	Cancer Education Committee for Genitourinary Oncology for the annual ASCO meeting

2013-2014 Scientific Chairman and Track Leader for Genitourinary Oncology for the ASCO 2014 meeting

Licensed Physician:

Year:	1978	<u>Place of Issue:</u>	New York, U.S.A #134825
	1979		California, U.S.A. #041164
	1991		Rome, Italy
	1995		Vienna, Austria

Board Certification:

1979 National Board of Medical Examiners
1982 American Board of Internal Medicine
1983 Board Certified in Medical Oncology
1995 Certified Specialist in Internal Medicine in Austria
1995 Certified Specialist in Medical Oncology in Austria
1996 Certified Specialist in Internal Medicine in Italy
2002 Certified Specialist in Medical Oncology in Italy

Honors and Awards:

12/1972	Phi Beta Kappa, University of Pennsylvania
1976-1977	Research Fellowship, Section of Immunology, National Institute of Health, Bethesda, Maryland
1989	Fellow of the American College of Physicians
1994	Folke Edsmyr Memorial Award Karolinska Institute, Stockholm, Sweden

2003	Annual AICR (American International Club of Rome) Community Service Award for Service in Medicine
12/200	Grande Ufficiale al Merito della Repubblica Italiana
11/2007	Premio Minerva for Scientific Achievement, XVIII Edition for Achievements in Science
05/2011	Premio Rosa "Risultati Ottenuti Senza Aiuti", Award for Special Achievement, Canova Club, Rome, Italy
09/2013	European Society of Medical Oncology: ESMO Award

Grants:

1988	American Cancer Society Career Development Grant
1996	European Community Grant: Standards, Biomeasures and Testing Programme: Measurement of hematogenous micrometasteses associated with prostate cancer by RT/PCR and DNA probe detection of prostate specific antigen (PSA) mRNA.
2005	Research grant from the ISS (Istituto Superiore della Sanità) on proteomics as sub cordinator with Prof. Enrico Garci
2004-2008	AIRC (Italian Association of Cancer Research) Rearch Grant as sub cordinator on Prostate Cancer

Scientific and Medical Societies:

Investigator National Cancer Institute
American Association for Cancer Research
American Society of Clinical Oncology
American College of Physicians (Associate)
American Medical Association
American Urological Association
New York Academy of Sciences

New York State Society of Internal Medicine

Society of Urologic Oncology

Society of Basic Urologic Research

European Society of Medical Oncology

European Organization for Research and Treatment of Cancer

European Association of Urology

European School of Medical Oncology

Early Clinical Trials Group of the E.O.R.T.C.

Italian Association of Cancerology

Italian Association of Medical Oncology

Italian Society of Oncologic Urology (Scientific Committee)

Journal Editorial Activities:

Solid Tumor Editor, Critical Reviews in Hematology and Oncology

Genitourinary Editor, European Journal of Cancer Associate Editor for

Oncology Editor, British Journal of Urology, International (until 12/2012)

Associate Editor for Frontiers in Genitourinary Oncology

Genitourinary Editor, European Journal of Cancer

Section Editor, Urologic Oncology

Editorial Board, Journal of Clinical Oncology (past)

Editorial Board, European Urology

Editorial Board, Annals of Oncology

Editorial Board, Oncology

Editorial Board, Journal of Clinical Oncology Online

Editorial Board, Nature Clinical Practice Urology

Editorial Board, Annual Report on Prostate Diseases, Harvard Medical School

Editorial Board, Supportive and Palliative Cancer Care

Editorial Board, Update on Cancer Therapeutics

Editorial Board, Clinical Genitourinary Cancer

Editorial Board, Oncology Reviews

Editorial Board, Kidney Cancer Journal International

Editorial Board, Therapeutics Advances in Urology

Editorial Board, Prostate Cancer

Editorial Board, Clinical Investigation

Editorial Board, Treatment Strategies – Oncology

Editorial Board, European Oncology and Hematology

Editorial Board, Frontiers in Genitourinary Oncology

Editorial Board, Acta Urologica

Opinion Board, OncoCase

Ambassador, Oncology Central

Reviewer, New England Journal of Medicine

Reviewer, Cancer

Reviewer, British Journal of Cancer

Reviewer, Journal of Urology

Reviewer, Forum Trends in Experimental and Clinical Medicine

Reviewer, Urology

Grant Reviewer:

European 6th Framework Program Project Grants

Lance Armstrong Foundation

Italian Association for Research of Cancer (AIRC)

Ministry of the University and Scientific and Technological Research, Department of Economic Affairs – Scientific Research Program

2005 - August 2010: National Cancer Research Network UK (Member Clinical Trials Advisory and Awards Committee)

Spoken Languages:

English (mother-tongue), Italian (fluent), French (scholastic)

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Hospital Address:

San Camillo and Forlanini Hospitals Department of Medical Oncology Padiglione Flajani, 1st floor Circonvallazione Gianicolense, 87

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Marital Status:

Married to Prof. Vito Pansadoro, 2 children (Vincenzo and Tatiana)

Textbook Editor:

- 1. Co-editor: Vito Pansadoro and Cora N. Sternberg. Il Carcinoma Infiltrante della Vescica. Accademia Nazionale di Medicina: Forum per la Formazione Biomedica. Sezione Urologia. Rome, 1994.
- 2. Co-editor: Seth Lerner, Mark Schoenberg and Cora N. Sternberg. Comprehensive Textbook on Bladder Cancer. Taylor and Frances. Abington Oxon OX14 4 RN, England, 2006
- 3. Co-editor: Hein van Poppel , J.J.M.C.H. Delarosette and Cora N. Sternberg. Textbook on Renal Cell Cancer: Diagnosis and Therapy. Springer Verlag London, 2008
- 4. Co-editor: Seth Lerner, Mark Schoenberg and Cora N. Sternberg. Textbook on Treatment & Management of Bladder Cancer. Informa UK Ltd, 2008
- 5. Co-editor: Sergio Bracarda and Cora N. Sternberg. Abiraterone in Castration Resistant Prostate Cancer. ACCMED (Accademia Nazionale di Medicina. Forum Service Editor, 2013
- 6. Co-editor: Seth Lerner, Mark Schoenberg and Cora N. Sternberg. Textbook on Bladder Cancer: Diagnosis and Clinical Management. Wiley, London 2014 (in press)

Guest Editor:

- 1. Highlights of the Medical and Surgical Management of Prostate Cancer. Critical Rev Oncol Hematol 2002 Aug;43(2).
- 2. Targeted Therapies in the Treatment of Genitourinary Cancers. <u>Critical</u> <u>Rev Oncol Hematol</u> 2003 Jun;46 (Suppl.1).
- 3. Current Treatment Strategies in Transitional Cell Carcinoma of the Bladder. <u>Critical Rev Oncol Hematol</u> 2003 Aug;47.

- 4. Renal Cancer Editor (with Darracott Vaughan and John Fitzpatrick), Special Edition for British Jounal of Urology International, Brit J of Urol Int (May 2007)
- 5. Bladder Cancer Editor (with Seth Lerner), Special Edition for British Jounal of Urology International, Brit J of Urol Int (November 2008)
- 6. Testicular Cancer Editor (with Joel Sheinfeld), Special Edition for British Jounal of Urology International, Brit J of Urol Int (November 2009)

Publications:

- 1. Pinto ER, Damani PM, Sternberg CN, Liedtke AJ: Fine systolic flutterings of the aortic valve as demonstrated by aortic valve echocardiogram. <u>Am</u> Heart J 1978;95:807-808.
- 2. Sternberg CN, Magill GB, Sordillo PP, Cheng E, Currie VE: Phase II evaluation of M-AMSA 4'-(9-acridinylamino)-methanesulfon-manisindide in patients with adenocarcinoma of the pancreas. <u>Am J Clin Oncol</u> 1983;6:459-462.
- 3. Sternberg CN, Magill BG, Sordillo PP, Cheng E, Kemeny N: Phase II evaluation of metoprine in advanced pancreatic adenocarcinoma. <u>Cancer Treat Rep</u> 1984;68:1053-1054.
- 4. Mertelsmann R, Welte K, Sternberg C, O'Reilly R, Moore MAS, Clarkson BD, Oettgen HF. Treatment of immunodeficiency with interleukin-2: initial exploration. <u>J Biol Resp Mod</u> 1984; 4:483-490.
- 5. Sternberg CN, Magill GB, Sordillo PP, Cheng E: MIFA III (mitomycin-C, 5-fluorouracil and adriamycin) chemotherapy for advanced adenocarcinoma of the pancreas. <u>Am J Clin Oncol</u> 1984; 7:529-533.
- 6. Sternberg CN, Cheng E, Sordillo PP: Phase II trial of 1,2-diaminocyclohexane-(-4-carboxyphthalato) platinum (II) (DACCP) in colorectal carcinoma. <u>Am J Clin Oncol</u> 1984; 7:503-505.

- 7. Sternberg CN, Yagoda A, Scher HI, Watson RC, Ahmed T, Weiselberg LR, Geller N, Hollander PS, Herr HW, Sogani PC, Morse MJ, Whitmore WF: Preliminary results of M-VAC (methotrexate, vinblastine, doxorubicin, and cisplatin) for transitional cell carcinoma of the urothelium. J Urol 1985;133: 403-407.
- 8. Sternberg CN, Yagoda A: N-methylformamide induced hypophosphatemia. <u>Cancer Treat Rep</u> 1985;69: 343-344.
- 9. Sternberg CN, Yagoda A, Casper E, Scoppetuolo M, Scher HI: Phase II trial of elliptinium in advanced renal cell carcinoma and carcinoma of the breast. Anticancer Res 1985; 5:415-418.
- 10. Sternberg C, Kelsen D, Dukeman M, Leichman L, Heelan R: Carboplatin a new platinum analog in the treatment of epidermoid carcinoma of the esophagus. <u>Cancer Treat Rep</u> 1985;69 (11): 1305-1307.
- 11. Scher HI, Sternberg CN: Chemotherapy of urologic malignancies. <u>Sem Urol</u> 1985;3: 239-280.
- 12. Ahmed T, Yagoda A, Scher HI, Sternberg CN, Watson RC: Phase II trial of 10 deaza-aminopterin in patients with bladder cancer. <u>Invest New Drugs</u> 1986;4:171-174.
- 13. Sternberg CN, Yagoda A, Scher HI, Hollander P: Phase II trial of n-methylformamide for advanced renal cell carcinoma. <u>Cancer Treat Rep</u> 1986;70:681-682.
- 14. Scher HI, Sternberg CN, Heston WD, Watson RC, Niedzwiecki D, Smart T, Hollander P, Yagoda A, and Community Cancer Oncology Program Investigators: Etoposide in prostatic cancer: experimental studies and phase II trial in patients with bidimensionally measurable disease. <u>Cancer Chemother Pharmacol</u> 1986;18:24-25.
- 15. Kyriazis AA, Kyriazis AP, Sternberg CN, Sloane NJ, Loveless JD: Morphological, biological, biochemical, and karyotypic characteristics of human pancreatic ductal adenocarcinoma capan-2 in tissue culture and the nude mouse. Cancer Res 1986;46: 5810-5815.

- 16. Sternberg CN, Yagoda A, Bander NJ, Whitmore WF Jr., Huffman JL, Melamed M, Huffman JL, Fanucchi M, Hollander P, Vaughan ED: Phase I/II trial of intravesical methotrexate for superficial bladder tumors. <u>Cancer Chemother Pharmacol</u> 1986;18:265-269.
- 17. Mittelman A, Magill G, Raymond V, Sternberg CN, Cheng EW, Sordillo PP, Young C: Phase II trial of idarubicin in patients with pancreatic cancer. <u>Cancer Treat Rep</u> 1987;71(6):657-658.
- 18. Sternberg CN, and Scher HI: Current status of chemotherapy for urothelial tract tumors. Oncol 1987;1:41-49.
- 19. Sternberg CN, Sordillo PP, Cheng EW, Chuang YJ, Niedzwiecki D: Evaluation of new anticancer agents against human pancreatic carcinomas in nude mice. <u>Am J Clin Oncol</u> 1987;10(3):219-221.
- 20. Sternberg CN, Yagoda A, Scher HI, Watson RC, Herr HW, Morse MJ, Sogani PC, Vaughan ED, Bander N, Geller N, Fair WF, Whitmore WF Jr: Chemotherapeutic management of invasive bladder carcinoma. 2nd Symposium, Heinrich Warner Stiftung. <u>Eur Urol</u> 1988;14:19-20.
- 21. Sternberg CN, Yagoda A, Scher HI, Watson RC, Herr HW, Morse MJ, Sogani PC, Vaughan ED, Bander N, Weiselberg LR, Geller N, Hollander PS, Lipperman R, Fair WR, Whitmore WF Jr: M-VAC (methotrexate, vinblastine, doxorubicin and cisplatin) for advanced transitional cell carcinoma of the urothelium. J Urol 1988;139(3):461-469.
- 22. Scher H, Yagoda A, Herr H, Sternberg CN, Bosl G, Morse M, Sogani P,Watson R, Dershaw D, Reuter V, Geller N, Hollander P, Vaughan ED, Whitmore WF Jr, Fair WR: Neoadjuvant M-VAC (methotrexate, vinblastine, doxorubicin and cisplatin) effect on primary bladder lesions. J Urol 1988;139(3):470-474.
- 23. Scher H, Yagoda A, Herr H, Sternberg CN, Morse M, Sogani P, Watson, Reuter V, Whitmore WF Jr, Fair WR: Neoadjuvant M-VAC (methotrexate, vinblastine,doxorubicin and cisplatin) for extravesical urinary tract tumors. <u>J Urol</u> 1988;139(3):475-477.

- 24. Sternberg CN, Magill GB, Cheng EW, Applewhite A, Sordillo PP: Etoposide (VP-16) in the treatment of advanced adenocarcinoma of the pancreas. Am J Clin Oncol 1988;11(2): 172-173.
- 25. Sternberg CN, Magill GB, Cheng EW, Hollander P: Phase II trial of menogarol in the treatment of advanced adenocarcinoma of the pancreas. Am J Clin Oncol 1988;11(2): 174-176.
- 26. Gabrilove JL, Jakubowski A, Scher H, Sternberg CN, Wong G, Grous J,Yagoda A, Fain K, Clarkson B, Moore MAS, Clarkson B, Oettgen HF, Alton K, Welte K, Souza L: Effect of Granulocyte Colony- Stimulating Factor non neutropenia and associated morbidity due to chemotherapy for transitional-cell carcinoma of the urothelium. N Eng J Med 1988;318(22): 1414-1422.
- 27. Gabrilove JL, Jakubowski A, Scher HI, Sternberg C, Wong G,Grous, J, Yagoda A, Fain K, Clarkson B, Oettgen HF, Alton K, Welte K, Souza L: Phase I study of G-CSF in patients with transitional cell carcinoma of the urothelium. J Clin Invest 1988;82: 1454-1461.
- 28. Sternberg, CN, Yagoda A, Scher H. Bosl G, Dershaw D, Rosado K, Houston C, Rosenbluth R, Vinciguerra V, Boselli B, Clinical Community Oncology Program. Phase II trial of trimetrexate in patients with advanced renal cell carcinoma. Eur J Cancer Clin Oncol 1989;25:753-754.
- 29. Scher HI, Herr HW, Sternberg CN, Bosl G, Morse MJ, Sogani P, Watson RC, Dershaw DD, Reuter V, Curley T, Vaughan ED, Whitmore WF Jr, Fair W, Yagoda A: Neo-adjuvant M-VAC chemotherapy for invasive bladder cancer: Experience with the M-VAC regimen. <u>Brit J Urol</u> 1989;64:250-256.
- 30. Sternberg CN, Yagoda A, Scher HI, Watson RC, Geller N, Herr HW, Morse MJ, Sogani PC, Vaughan ED, Bander N, Weiselberg L, Rosado K, Smart-Curly T, Lin S, Penenberg D, Fair W, Whitmore WF Jr: M-VAC for advanced transitional cell carcinoma of the urothelium: Efficacy and patterns of response. Cancer 1989;64:2448-2458.
- 31. Sternberg CN: Chemotherapy in the treatment of advanced urothelial tumors. <u>Der Urologe A</u> 1991;30:33-44.

- 32. Geller NL, Sternberg CN, Penenberg D, Scher H, Yagoda A. Prognostic factors for survival of patients with advanced urothelial tumors treated with M-VAC chemotherapy. <u>Cancer</u> 1991;67:1525-1531.
- 33. Pansadoro V, Sternberg CN, DePaula F, Florio, Giannarelli D: A. Transurethral resection of the prostate and metastatic prostate cancer. <u>Cancer</u> 1991;68:1895.
- 34. Seidman AD, Scher HI, Heinemann MH, Bajorin DF, Sternberg CN, Dershaw DD, Silverberg M, Bosl GJ: Continuous infusion gallium nitrate for patients with advanced refractory urothelial tract tumors. <u>Cancer</u> 1991;68:2561-2565.
- 35. Sternberg CN: Organ Conservation in T2-3 bladder cancer: the role of transurethral resection, partial cystectomy, and primary and adjuvant chemotherapy. World J Urol 1992;10:2-7.
- 36. Sternberg CN: Hormone refractory metastatic prostate cancer. <u>Ann Oncol</u> 1992;3(5):331-335.
- 37. Sternberg C, Arena M, Pansadoro V, D'Agnano I, Calabresi F, De Carli P, Zeuli M, Cancrini A, Rosenkaimer F and Zupi G: Recombinant tumor necrosis factor for superficial bladder tumors. <u>Ann Oncol</u> 1992;3(9):741-745.
- 38. Arena MG, Sternberg CN, Zeuli M, De Carli P, Cancrini A, Pansadoro V and Calabresi F. Carboplatin and 5-fluorouracil in poor performance status patients with advanced urothelial cancer. <u>Ann Oncol</u> 1993;4(3):241-244.
- 39. Rosenstein M, Wallner K, Scher H, and Sternberg CN: Treatment of brain metastases from bladder cancer. <u>J Urol</u> 1993;149(3):480-483.
- 40. Sternberg C, De Mulder P, Van Oosterom A, Fossa S, Giannarelli D, Soedirman J: Escalated M-VAC chemotherapy and recombinant human granulocyte macrophage colony stimulating factor (GM-CSF) in patients with advanced urothelial tract tumors. Ann Oncol 1993;4(5):403-407.

- 41. Sternberg C, Arena M, Calabresi F, De Carli P, Platania A, Zeuli M, Giannarelli D, Cancrini A, and Pansadoro V: Neo-adjuvant M-VAC (methotrexate, vinblastine, adriamycin and cisplatin) for infiltrating transitional cell carcinoma of the urothelium. <u>Cancer</u> 1993;72(6):1975-1982.
- 42. Sternberg CN: Adjuvant chemotherapy following radical cystectomy. World J Urol 1993;11(3):169-174.
- 43. De Mulder PHM, Sternberg CN, van Oosterom AT, Fossa SD: The application of hematopoietic growth factors in advanced transitional cell carcinoma of the urinary tract. Sem Oncol 1994; 21(1)(Suppl 1): 65-69.
- 44. Sternberg CN, Pansadoro V. The role of systemic chemotherapy for T2-T3 or N+ bladder cancer. Urol International 1994;1(3):5-9.
- 45. Sternberg CN, Ten Bokkel Huinink WW, Smith JF, Bruntsch U, Dirix LY, Pavlidis NA, Franklin H, Wanders J, Le Bail N, Kaye SB: Docetaxel a novel taxoid in the treatment of advanced colorectal carcinoma. <u>Br J Cancer</u> 1994, 70(2):376-379.
- 46. Pansadoro V, De Paula F, Florio A,and Sternberg CN: Subsequent intravesical treatment in patients who initially fail Bacillus -Calmette Guerin (BCG) therapy. In: Pagano F, Bassi P (eds). BCG Immunotherapy in superficial bladder cancer. Monographs in Urology, Cooperativa Libreria Editrice Universita' di Padova, Padova 1994:147-151.
- 47. Pansadoro V, De Paula F, Florio A, and Sternberg CN: Major and minor side effects during intravesical therapy with Bacillus Calmette Guerin (BCG). In: Pagano F, Bassi P (eds). BCG Immunotherapy in superficial bladder cancer. Monographs in Urology, Cooperativa Libreria Editrice Universita' di Padova, Padova 1994:185-190.
- 48. Sternberg CN: The treatment of advanced bladder cancer. <u>Ann Oncol</u> 1995;6 (2):113-126.
- 49. Sternberg CN, Raghaven D, Ohi Y, Bajorin D, Herr HW, Kato T, Kuroda M, Logothetis C, Scher HI, Splinter TAW, Van Oosterom AT: Neo-

- adjuvant and adjuvant chemotherapy in locally advanced disease: What are the effects on survival and prognosis? Int J Urol 1995;2(Suppl 2):76-88.
- 50. Sternberg CN. Adjuvant and neo-adjuvant chemotherapy of invasive bladder cancer. Eur Urol Update Series 1995;4(4):26-31.
- 51. Sternberg CN: Bladder preservation: A prospect for patients with urinary bladder cancer. <u>Acta Oncologica</u> 1995;34(5):589-597.
- 52. Sternberg CN. Multimodal therapy of advanced bladder cancer. <u>Current Opinion in Urol</u> 1995;5(5): 260-266.
- 53. Verweij J, Catimel G, Sulkes A, Sternberg C, Wolff I, Aamdal S, and van Hoesel Q on behalf of the EORTC Clinical Trials Group and the EORTC Soft Tissue and Bone Sarcoma Group: Phase II studies of Docetaxel in the treatment of various solid tumors. Eur J Cancer 1995;31A (4):S21-S24.
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Enzalutamide Treated Men with Metastatic Prostate Cancer (mPC) That Had Progressed on ADT. American Urological Association 2014 (submitted)

317. Sternberg CN, Fizazi K, Saad F, Shore N, Heidenreich A, Hirmand M, Perabo F, Khondher Z, Modelska K, Hussain M PROSPER: A phase 3 study of Enzalutamide in Non-,etasatic of enzalutamide in non-metastatic (M0) castration-resistant prostate cancer (CRPC) patients. <u>Eur J Cancer</u> (submitted)

Invited Lectures:

1. Methotrexate (MTX), Vinblastine (VLB), Adriamycin (ADM), and Cisplatin (DDP) (M-VAC) for Transitional Cell Carcinoma (TCC) of the Urothelium.

American Society of Clinical Oncology Toronto, Ontario-Canada May 7, 1984

Update on the Therapy of Carcinoma of the Bladder and Prostate.
 New York University Medical Center
 New York, New York
 November 9, 1984

3. M-VAC: Methotrexate (MTX), Vinblastine (VLB), Adriamycin (ADM), and Cisplatin (DDP) for Metastatic Transitional Cell Carcinoma (TCC) of the Urothelium.

American Urological Association Atlanta, Georgia May 13, 1985

4. Update of Methotrexate (MTX), Vinblastine (VLB), Adriamycin (ADM), and Cisplatin (DDP) for Urothelial Tract Cancer.

American Society of Clinical Oncology

Houston, Texas May 20, 1985

Controversies in Urothelial Tract Malignancies. Medical Grand Rounds, Memorial Sloan-Kettering Cancer Center New York, New York

July 19, 1985

6. Therapy of Urothelial Malignancies.

Grand Rounds, Mount Sinai Medical Center Department of Neoplastic Diseases

New York, New York

Cantanal and 1005

September 19, 1985

7. Chemotherapy of Penile Carcinoma.

Department of Surgery Grand Rounds

Memorial Sloan-Kettering Cancer Center

New York, New York

September 19, 1985

8. Update on Bladder Cancer.

Community Cancer Center Tumor Board

Saint Barnabas Medical Center

Livingston, New Jersey

October 17, 1985

9. Therapy of Genitourinary Malignancies: Update on M-VAC

Chemotherapy.

Fox Chase Cancer Center

Philadelphia, Pennsylvania

October 24, 1985

10. Controversies in Urothelial Tract Malignancies.

Lenox Hill Hospital

New York, New York

November 19, 1985

11. Chemotherapy of Bladder Cancer.

Memorial Sloan-Kettering Cancer Center

Developmental Chemotherapy Service Conference New York, New York January 28, 1986

12. Surgical Staging and Long Term Survival in Patients with Advanced Transitional Cell Carcinoma (TCC) of the Urothelium Treated with M-VAC.American Society of Clinical Oncology Los Angeles, California May 5, 1986

13. Controversies in Genitourinary Tract Malignancies.
Medical Grand Rounds, Brookdale Hospital

Brooklyn, New York

June 18, 1986

14. Diagnosis and Therapy of Urothelial Tract Malignancy.

Medical Grand Rounds, St. Joseph's Medical Center

Stanford, Connecticut

June 19, 1986

15. Advances in the Chemotherapy of Advanced Bladder Cancer.

Hematology-Oncology Tumor Board

Cornell University, New York Hospital

New York, New York

October 20, 1986

16. Controversies in the Treatment of Urothelial Tract Malignancies.

Combined Staff Tumor Board

New England Medical Center

Boston, Massachussetts

November 14, 1986

17. The M-VAC Regimen for Metastatic Bladder Cancer.

International Course on Urological Oncology

Erice, Italy

December 2, 1986

18. M-VAC Chemotherapy Trials in Transitional Cell Carcinoma: Perspectives for Firstline Chemotherapy.

International Course on Urological Oncology

Erice, Italy

December 3, 1986

19. Is Bladder Carcinoma a Chemotherapeutically Responsive Malignancy?

The London Institute

London, England

December 9, 1986

20. Neoadjuvant Chemotherapy and the Management of Urothelial Tract Tumors.

Combined Staff Conference

Syracuse University Hospital

Syracuse, New York

December 18, 1986

21. Advances in the Treatment of Bladder Cancer.

Oncology Grand Round, Albert Einstein Medical College

New York, New York

February 11, 1987

22. Chemotherapy of Urothelial Tract Tumors in the United States.

Division of Urology

Centro Traumatologico Ortopedico Hospital

Rome, Italy

February 17, 1987

23. Recent Developments in the Treatment of Urothelial Cancer.

Oncology Grand Rounds, Stanford Hospital

Stanford, Connecticut

March 5, 1987

- 24. 1) Advances in Bladder Cancer: Chemotherapy M-VAC Regimen.
 - 2) Advances in Testicular Cancer: Role of Chemotherapy.

Symposium on Urologic Cancer

University of Maryland

Baltimore, Maryland

April 3, 1987

25. Long Term Survival in Advanced Urothelial Cancer with M-VAC: The First Two Years of Accrual.

American Society of Clinical Oncology

Atlanta, Georgia

May 19, 1987

26. Advances in the Treatment of Bladder Cancer.

Interdisciplinary Cancer Conference

Columbia Presbyterian Hospital

New York, New York

June 5, 1987

27. Urothelial Tract Tumors: Advances and Future Prospects.

Emory University School of Medicine

Winship Cancer Center

Atlanta, Georgia

October 9, 1987

28. Chemotherapeutic Management of Invasive Bladder Carcinoma.

2nd Symposium, Heinrich Warner Stiftung

Hamburg, Germany

November 6, 1987

29. M-VAC for Advanced Bladder Cancer.

Department of Urology

The Valley Hospital

Ridgewood, New Jersey

November 11, 1987

30. Clinical Results, Trends and Strategies in the Treatment of Invasive

Bladder Carcinoma at Memorial Sloan Kettering Cancer Center.

International Symposium of Actual Treatment in Superficial and

Invasive Bladder Carcinoma

Klinikum Grosshadern - University of Munchen Ludwig-Maximilian

Munich, Germany

November 21, 1987

31. The Chemotherapeutic Management of Invasive and Metastatic Transitional Cell Carcinoma at Memorial Sloan Kettering Cancer Center.

Division of Medical Oncology Johannes Gutenberg - University Klinikum. Mainz, Germany November 23, 1987

32. Transitional Cell Carcinoma of the Urinary Tract: M-VAC Neoadjuvant Chemotherapy: Memorial Sloan-Kettering Cancer Center Experience.

Divison of Urology, Department of Surgery

Long Island Jewish Medical Center

New Hyde Park, New York

January 24, 1988

33. Chemotherapy in Urothelial Tract Tumors.

Multidisciplinary Cancer Conference Division of Hematology/Oncology The Long Island College Hospital Brooklyn, New York February 11, 1988

34. Chemotherapeutic Advances in Testicular Cancer.

Second Symposium on Urologic Cancer Department of Surgery University of Maryland

Baltimore, Maryland

March 25, 1988

35. Management of Disseminated Bladder Cancer.

Second Symposium on Urologic Cancer

Department of Surgery

University of Maryland

Baltimore, Maryland

March 25, 1988

36. Advances in Genitourinary Malignancies.

Yale Univerity

Department of Oncology

New Haven, Connecticut

May 16, 1988

37. Management of Invasive Bladder Cancer.

Clinical Meetings of "Vecchia Roma"

St. Giacomo Hospital

Rome, Italy

May 30, 1988

38. Chemotherapy of Advanced Carcinoma of the Urothelium.

The Seventh National Congress ACOI

Catania, Italy

June 9, 1988

39. The Use of Tumor Necrosis Factor in Regional Cancer Treatment.

Boehringer Ingelheim Workshop

Vienna, Austria

November 2, 1988.

40. Chemotherapy of Urothelial Carcinoma.

CTO Hospital

Division of Urology, Congress of ACOI

Rome, Italy

November 19, 1988

41. Future Trends and Prospectives in the Therapy of Carcinoma of the Bladder.

Division of Urology

Johannes Gutenberg, University Klinikum

Mainz, Germany

December 16, 1988

42. Neo-adjuvant Chemotherapy in the Treatment of Advanced Urothelial Cancer.

Division of Surgery

University of Rome, La Sapienza

Rome, Italy

April 3, 1989

43. Patterns of Response, Survival and Relapse in Advanced Urothelial Cancer Treated with M-VAC.

American Society of Clinical Oncology

San Francisco, California May 23, 1989

44. Biologic and Clinic Aspects of Medical Oncology in the 90's.

The Italian Association of Medical Oncology

Rome, Italy

June 12, 1989

45. Contribution of Chemotherapy in the Treatment of Advanced Bladder Cancer.Oncology Data Club, Regina Elena Cancer Institute

Rome, Italy

June 22, 1989

46. Adjuvant and Neo-adjuvant Chemotherapy in Metastatic Bladder Cancer.

25th Anniversary Department of Urology

Congress New Trends in Urology

Nijmegen, The Netherlands

September 13, 1989

47. The M-VAC Experience in the Treatment of Invasive Bladder Cancer.

The Civic Hospital

Lugano, Switzerland

September 21, 1989

48. Neoadjuvant Chemotherapy with M-VAC in Invasive Bladder Tumors.

VI International Symposium on Urological Oncology.

Vilamoura, Portugal

October 27, 1989

49. The Contribution of Chemotherapy in the Treatment of Advanced Bladder Cancer: The M-VAC Experience.

Annual Meeting of the Regional Section of the Italian Association

of Medical Oncology

University of Modena

Modena, Italy

October 31, 1989

50. New Therapeutic Prospectives in the Treatment of Infiltrating Bladder Carcinoma.

The Civil Hospital Latina, Italy November 11, 1989

- 51. 1) Chemotherapy Alone and in Association with Conservative Surgery in the Treatment of Invasive Bladder Cancer.
 - 2) Neo-adjuvant Chemotherapy Experience, Local Response Rates and Survival.
 - 3) Chemotherapy in Advanced Transitional Cell Carcinoma of the Urothelium.

VIth Superior Course of Oncology

Institute of Oncology

Valencia, Spain

December 1-2, 1989

52. The Contribution of Chemotherapy in the Treatment of Invasive Urothelial Cancers: Rationale for Adjuvant and Neo-adjuvant Chemotherapy.

CTO Hospital

Rome, Italy

January 26, 1990

53. Systemic Chemotherapy in the Treatment of Bladder Cancer.

Current Concepts in Urologic Oncology.

The National Institute for Research and Cure of Tumors, The

Senator G. Pascale Foundation

Naples, Italy

February 24, 1990

54. Organ Conservation and Reconstructive Surgery in Patients with Advanced Bladder Carcinoma.

International Course on Urological Oncology

Erice, Italy

March 28, 1990

55. Chemotherapeutic Approach in the Treatment of Bladder Cancer.

Specialization Course of Oncology

University of Rome, La Sapienza

Rome, Italy

April 26, 1990

56. Recombinant Tumor Necrosis Factor in the Treatment of Superficial Bladder Cancer.

American Association of Cancer Research

Washington, Washington

May 25, 1990

57. Intravesical Recombinant Tumor Necrosis Factor (rTNF) in Patients with Superficial Bladder Cancer.

European Association of Urology

Amsterdam, The Netherlands

June 15, 1990

58. Combination Chemotherapy in the Treatment of Advanced Urothelial Tumors:The M-VAC Experience.

Czech Urological Society

Prague, Czechoslovakia

September 15, 1990

59. Bladder Cancer: State of the Art.

Superior School of Oncology and Biomedical Sciences

Santa Margherita Ligure, Italy

October 4, 1990

60. Adjuvant and Neo-adjuvant Chemotherapy in Bladder Cancer.

International Congress on Debated Problems in Clinical Oncology

Rome, Italy

October 12, 1990

61. Intravesical Immuno-and Chemotherapy in the Treatment of Superficial Bladder Cancer.

International School of Oncology and Experimental Medicine

Rome, Italy

October 20, 1990

62. Adjuvant and Neo-adjuvant Chemotherapy in Bladder Cancer.

Italian Association of Hospital Surgeons (A.C.O.I.) Reunion

CTO Hospital

Rome, Italy

October 30, 1990

63. University and Post-Graduate Medical Training in the United States and Italy.Italian Research Group of Clinical Oncology (G.O.I.R.C.)

Scientific Committee Reunion

Florence, Italy

November 9, 1990

64. Metastatic and Locally Invasive Urothelial Cancer: The M-VAC Experience.

Swiss Association of Clinical Oncology (S.A.K.K.) Meeting

Lucerne, Switzerland

November 30, 1990

- 65. 1) Intravesical Administration of Recombinant Tumor Necrosis Factor (rTNF) in Patients with Superficial Bladder Cancer.
 - 2) Neo-adjuvant M-VAC (Methotrexate, Vinblastine, Adriamycin and Cisplatin) for Invasive Urothelial Tumors

XV Congress European Society of Medical Oncology (ESMO)

Copenhagen, Denmark

December 2, 1990

66. Chemotherapy for Advanced Bladder Carcinoma.

Round Table on Current Issues in the Chemotherapy of Urological and Gynecological Cancers

Copenhagen, Denmark

December 2, 1990

- 67. 1) Estramustine and Chemotherapy in the Treatment of Hormone-Resistant Prostate Cancer.
 - 2) Neo-adjuvant Chemotherapy in the Treatment of Invasive Bladder Cancer

and the Possibility of Conservative Surgery.

3) Strategies and New Approaches in Advanced Transitional Cell Carcinoma of the Urothelium.

International Urology Course

Zaragoza, Spain

February 6, 1991

68. New Therapeutic Prospectives in Bladder Cancer.

Onco-hematologic Congress on Bladder Carcinoma

II University of Rome, Tor Vergata and the Saint Eugenio Hospital

Rome, Italy

February 16, 1991

69. University and Post-Graduate Medical Training in the United States and Italy.

Division of Pediatrics

University of Rome, La Sapienza

Rome, Italy

February 19, 1991

- 70. 1) Controversies in Renal Cell Carcinoma: Adjuvant Hormonal-, Chemo-, and Immunotherapy.
 - 2) Controversies in Bladder Carcinoma: The Role of Neo-adjuvant Chemotherapy and Adjuvant Chemotherapy.
 - 3) The Role of Neoplastic Markers in Superficial and Advanced Bladder Tumors.

2nd International Course of "Oncological Urology"

Ravenna, Italy

March 11, 1991

71. State of the Art: Systemic Chemotherapy in Bladder Cancer.

Nordrhein Westfalische Society of Urology

Munster, Germany

April 19, 1991

72. Prognostic Factors of Response, Survival, and Future Trends in the Treatment of Metastatic Bladder Cancer.

Gustave Roussy Institute

Paris, France

June 28, 1991

73. Post Cystectomy Adjuvant Chemotherapy: A Clinical Routine?

Adjuvant versus Neo-adjuvant Chemotherapy: Advantages and Disadvantages.

The First International Congress of the Dutch Urological Association

Rotterdam, The Netherlands October 11, 1991

74. Drug Resistance and Mathematical Modelling in Chemotherapeutic Regimens.

International School of Oncology and Experimental Medicine

Rome, Italy

October 17, 1991

75. State of the Art: Treatment of Infiltrating Bladder Tumors: Prospectives.

Congress on Immuno-Chemotherapy in Bladder Cancer

Urological Association of Campana

Naples, Italy

November 23, 1991

76. State of the Art: Treatment of Infiltrating Bladder Tumors: Problems and Prospectives.

Course on Controversies in the Treatment of Urological Tumors

First Congress of the Italian Oncological Urology Society

Santa Margherita Ligure, Italy

November 25, 1991

77. Face to Face: New Trends and Strategies in Bladder Cancer.

Course on New Trends and Therapeutic Strategies in Medical Oncology

Superior School of Oncology and Biomedical Sciences

Santa Margherita Ligure, Italy

December 5, 1991

78. Primary Chemotherapy in Bladder Cancer: Recent Strategies and Results.

International Medical and Surgeon's Days

Turin, Italy

December 10, 1991

79. Medical Therapies and Treatment of Infiltrating Bladder Carcinoma.

Course on New Therapeutic Strategies in Breast Cancer and Bladder Carcinoma

Oncological Center, Hospital USL 23 Arezzo

Arezzo, Italy

December 13, 1991

80. Systemic Chemotherapy in Testis Tumors.

First Urological Winter Forum

Davos, Switzerland

February 11, 1992

81. Diagnosis and Treatment of Metastatic and Locally Advanced Bladder Carcinoma: The Memorial Sloan-Kettering Cancer Center Experience.

Keio University

Department of Urology

Tokyo, Japan

April 20, 1992

82. Experience with Anthracyciline Containing Regimens in Advanced Bladder Cancer.

Japanese Urological Cancer Research Group Meeting

Nagoya, Japan

April 24, 1992

83. Experience with M-VAC Chemotherapy in Advanced Transitional Cell Carcinoma.

Chinese University of Hong Kong

Prince of Whales Hospital

Hong Kong, New Territories

April 28, 1992

- 84. Clinical and Biological Progress on:
 - 1) Germ Cell Tumors.
 - 2) Bladder Cancer.
 - 3) Renal Cell Carcinoma.
 - 4) Prostate Cancer.

Euro-American Conference on Urological Cancer

Athens, Greece

September 15-18, 1992

85. Systemic Chemotherapy in Transitional Cell Carcinoma of the Bladder.

Urologic Tumors: Recent Progress and New Research Objectives

Conference of the Italian Society of Prevention, Diagnosis and

Therapy of Tumors (SIPDTT)

Bologna, Italy November 16, 1992

86. 1) Neo-adjuvant M-VAC (methotrexate, vinblastine, adriamycin and cisplatin) for Infiltrating Transitional Cell Carcinoma of the Bladder.

2) Escalated M-VAC Chemotherapy in Association with GM-CSF in Advanced Urothelial Tumors.

Second National Congress of the Italian Oncologic Urology Society Rome, Italy

November 25, 1992

87. Neo-adjuvant Chemotherapy in the Treatment of Locally Advanced Bladder Cancer: Orthotopic bladder substitutions.

Hospital San Giacomo in Augusta, USL Roma 1

Rome, Italy

February 11, 1993

88. New Therapeutic Options in the Treatment of Advanced Bladder Carcinoma after M-VAC.

Italian Association of Medical Oncology

Regional Section Lazio

Rome, Italy

February 13, 1993

89. Second-line Chemotherapy in Urothelial Cancer.

Symposium on Locally Advanced Bladder Cancer

Urologic Clinic, Faculty of Medicine RWTH Aachen

Aachen, Germany

February 26, 1993

90. Neo-adjuvant Chemotherapy of Invasive Bladder Cancer.

New Trends in Diagnosis and Treatment of Bladder Cancer

4th International Symposium on Advances in Urologic Oncology

San Remo, Italy

March 19, 1993

91. Neo-adjuvant and Adjuvant Chemotherapy in Locally Advanced Disease:

What are the Effects on Survival and Prognosis?

Fourth International Consensus Meeting on Bladder Cancer

Antwerp, Belgium

March 24-26, 1993

92. 1) Chemotherapy in Stage I and IIA non Seminomatous Germ Cell Tumors of the Testis.

2) Neo-adjuvant M-VAC Chemotherapy in Locally Advanced Bladder Cancer.

Symposium on Adjuvant Therapy in Urological Malignancies

Vienna, Austria

April 28-30, 1993

93. Neo-adjuvant M-VAC Chemotherapy for Infiltrating Transitional Cell Carcinoma of the Bladder.

Annual Meeting American Urological Association

San Antonio, Texas

May 17, 1993

94. Neo-adjuvant Chemotherapy in the Treatment of Invasive Bladder Cancer.

First Meeting of the International Club of Urology

Capri, Italy

June 7, 1993

95. Neo-adjuvant and Adjuvant Chemotherapy in the Treatment of Muscle Invasive Bladder Cancer.

Imperial Cancer Research Fund

London, England

June 18, 1993

96. 1) Chemotherapy in Stage I and IIa Non Seminomatous Germ Cell Tumors of the Testis.

2) Current Status of Neo-adjuvant and Adjuvant Chemotherapy in Locally Advanced Bladder Cancer.

Aspen Urological Conference

Aspen, Colorado

February 6, 1994

97. Chemotherapy: Neo-adjuvant or adjuvant?

Invasive and Metastatic Bladder Carcinoma

ACOI Urology 4° Interregional Conference

Perugia, Italy March 19, 1994

98. Organ Preservation Istead of Cystectomy-a Future Prospect for Patients with Urinary Bladder Cancer

Folke Edsmyr Memorial Lecture

Karolinska Institute

Stockholm, Sweden

April 15, 1994

99. The Role of Chemotherapy in Advanced Bladder Cancer.

Duke Comprehensive Cancer Center Second Annual Clinical Cancer

Symposium

Durham, North Carolina

April 23, 1994

100. Chemotherapy in Metastatic Bladder Cancer.

Teaching Course

European Association of Urology

Berlin, Germany

July 12, 1994

101. Management of Locally Advanced and Metastatic Prostate Cancer:

Chemotherapy-Current Indications and Future

European Association of Urology

Berlin, Germany

July 14, 1994

102. Systemic Chemotherapy in Metastatic Bladder Cancer.

The Lille Urology Meeting

Lille, France

October 14, 1994

103. The Current Status of Chemotherapy for Invasive and Advanced Bladder Cancer.

44th Annual Meeting of the Central Section of the Japanese

Urological Association

Osaka, Japan

November 10, 1994

104. Chemotherapy in Invasive Bladder Cancer: Hematopoietic Growth Factors and New Chemotherapeutic Regimens.

Meeting of the Portugese Genitourinary Group of the E.O.R.T.C.

Vilamoura, Portugal

November 19, 1994

- 105. 1) The Role of Systemic Chemotherapy in Non-metastatic Primary Invasive Bladder Cancer.
 - 2) Chemotherapy in Prostate Cancer.
 - 3) New Prognostic Factor Analysis in Seminoma and Non-seminoma.
 - 4) Chemotherapy in Advanced Seminoma.
 - 5) Surveillance and Chemotherapy for Low Stage I and II Non-seminoma.
 - 6) Chemotherapy, Interferon, Interleukin-2 and other Biologic Response

Modifiers in Advanced Renal Cell Cancer.

European School of Medical Oncology

V Portugese Course of Urologic Oncology

Vilamoura, Portugal

November 20-22, 1994

- 106. 1) Neo-adjuvant and Adjuvant Chemotherapy in Invasive Bladder Cancer.
 - 2) Systemic Chemotherapy in Advanced Bladder Cancer.

Residential Course on Infiltrating Bladder Carcinoma.

National Academy of Medicine, Forum Biomedical Education

Rome, Italy

November 24-25, 1994

107. Systemic Chemotherapy in Bladder Cancer.

Meeting on Bladder Cancer - Regional Oncologic Institute (USL 40)

Rimini, Italy

December 2, 1994

108. Bladder Preservation Following Neo-adjuvant Chemotherapy.

Fifth Meeting of the Italian Club of Oncologic Urology (Cluron)

Courmayeur, Italy

January 22, 1995

109. Chemotherapy in Advanced and Infiltrative Bladder Cancer.

Workshop on Therapy of Urogenital Cancer

Swiss Society for Medical and Pediatric Oncology Lausanne, Switzerland March 16, 1995

110. Chemotherapy in Metastatic and Infiltrative Bladder Cancer.

Course for Specialization in Urologic Oncology

Urologic Institute, University of Padua

Padua, Italy

April 6, 1995

111. Neo-adjuvant M-VAC Chemotherapy in Localized Bladder Carcinoma:

Myth or Reality?

Annual Meeting of the Euro-American Urological Association

Porto Cervo, Italy

June 15, 1995

112. Neo-adjuvant M-VAC Chemotherapy and Bladder Preservation in Locally Advanced Bladder Cancer.

Academic Centre John Radcliffe Hospital

Oxford, England

September 1, 1995

113. The Treatment of Metastatic Bladder Cancer and the Role of Neo-adjuvant andAdjuvant Chemotherapy.

Columbia-Presbyterian University Hospital

Department of Urology Grand Rounds

New York, New York

September 21, 1995

- 114. Diagnosis and Treatment of Bladder Cancer:
 - 1) Neo-adjuvant Chemoterapy.
 - 2) Chemotherapy in Advanced Disease.

14th Annual Meeting of the San Camillo Hospital

Rome, Italy

October 12, 1995

115. Neo-adjuvant M-VAC Chemotherapy and Bladder Preservation for Muscle Infiltrating Transitional Cell Carcinoma of the Bladder. 8th European Conference on Clinical Oncology and Cancer Nursing (ECCO)

Paris, France

November 2, 1995

116. Neo-adjuvant Chemotherapy in Locally Advanced Bladder Cancer.

Italian Society Oncological Surgery (S.I.C.O.)

XIX National Congress

Florence, Italy

November 3, 1995

117. Neo-Adjuvant Chemotherapy and Bladder Preservation in Infiltrating Bladder Cancer.

VIth International Urological Update

University of Madrid Complutense

Madrid, Spain

November 6, 1995

118. Treatment of Hormonal Independent Prostate Carcinoma.

Adenoma and Adenocarcinoma of the Prostate

Urological Congress

Medical Military School

Florence, Italy

December 5, 1995

119. Chemotherapy of Hormone-Independent of Prostate Cancer.

VI Meeting of the Italian Club of Urological Oncology (Cluron)

Cortina d'Ampezzo, Italy

January 28, 1996

120. Staging and TNM Classification of Prostate Cancer.

European Association of Urology Group on Guidelines in Onco-Urology

Paris, France

February 23, 1996

121. 1) Systemic Chemotherapy in Locally Advanced Bladder Cancer: Neo-adjuvant versus Adjuvant Chemotherapy.

2) Systemic Chemotherapy for Metastatic Bladder Cancer: Indications and Results.

European Association of Urology

Budapest, Hungary

March 28, 1996

122. 1) Adjuvant and Neo-Adjuvant Chemotherapy in Bladder Cancer.

2) Chemotherapy for Metastatic Disease.

XII National Meeting, Uro-Oncology Group

Barcellona, Spain

April 19, 1996

123. Adjuvant Chemotherapy in Locally Advanced Bladder Cancer.

Adjuvant Treatment in Urological Cancer

International Congress Belgian Society of Urology

Brussels, Belgium

May 31, 1996

124. Adjuvant Treatment of Breast Cancer.

Senology Service

San Raffaele Scientific Institute

Rome, Italy

June 6, 1996

125. Neo-adjuvant Therapy in Urothelial Cancer.

Italian Association of Medical Oncology (A.I.O.M.)

Medical Oncology Course

Acireale, Italy

June 17, 1996

126. Controversies in Mammographic Screening in Women aged 40-49.

Senology Service

San Raffaele Scientific Institute

Rome, Italy

June 20, 1996

127. Bladder Cancer: The Real Role of Systemic Chemotherapy.

Advanced Course of Medical Oncology

European School of Oncology

Milan, Italy

September 20, 1996

128. 1) Neo-adjuvant Treatment of Invasive Bladder Cancer.

2) State of the Art Lecture: Prospects for Organ Preservation in Bladder Cancer.

3) Salvage Chemotherapy of Urothelial Malignancies: The E.O.R.T.C.

Experience.

3rd Euro-American Conference on Urological Diseases

Athens, Greece

October 11, 1996

129. Salvage Chemotherapy of Urothelial Malignancies.

Euro-American Urological Association

Bermuda, USA

October 19, 1996

130. Hormone Refractory Prostate Cancer: Chemotherapy and Future Prospects Prostate Disease Oriented Group of the E.O.R.T.C.

Autumn Meeting of the E.O.R.T.C.-G.U. Group

Palermo, Italy

November 8, 1996

- 131. 1) Neo-adjuvant Treatment of Invasive Bladder Cancer Prior to Surgery and/or Radiotherapy.
 - 2) Systemic Chemotherapy for Invasive and Metastatic Bladder Cancer.

Bladder

Cancer and Urinary Diversion: Update.

European Association of Urology, European School of Urology and

The Slovak Urological Society

Bratislava, Slovakia

November 15, 1996

132. Chemotherapy of Bladder Cancer: Adjuvant Therapy and Protocols in Metastatic Disease.

Urology in Europe

Urology Institute, University of Milan

European School of Urology ESU

Milan, Italy

November 16, 1996

133. Neo-adjuvant Chemotherapy in Locally Advanced Bladder Cancer. Integrated Therapy in Organ Conservation in Oncology

Italian Association of Medical Oncology (A.I.O.M.) Latina, Italy February 8, 1997

134. Chemotherapy of Urological Tumors.
Euro-American Urological Association

Urology in the Third Millennium

Bari, Italy

February 13, 1997

135. Neo-adjuvant and Adjuvant Chemotherapy.

International Course on Urological Innovations

Cortina, Italy

February 17, 1997

136. Paclitaxel in the Treatment of Bladder Cancer.

Clinical Experiences with Paclitaxel

Naples, Italy

March 1, 1997

137. Systemic Chemotherapy.

Urological Hospital Association (A.U.R.O.)

Bladder Cancer

Orvieto, Italy

April 5, 1997

138. Interim Toxicity Analysis of a Randomized Trial in Advanced Urothelial Tract Tumors of High Dose Intensity MVAC Chemotherapy (HD-MVAC) and Recombinant Human Granulocyte Colony Stimulating Factor (G-CSF) Versus Classic MVAC Chemotherapy (E.O.R.T.C. 30924).

33rd Annual Meeting American Society Clinical Oncology

Denver, Colorado

May 20, 1997

139. RT-PCR PSA Simplified.

International Symposium

Defining Curability in Prostate Cancer

The Austrian Society of Urology

June 6, 1997

140. Chemotherapy in the Conservation of the Bladder.

IV National Congress of the Spanish Society of Oncology

Leon, Spain

June 11, 1997

141. Gemcitabine: New Therapeutic Treatment in Bladder Cancer

Gemcitabine: Actual Results and Future Prospectives

19° National Congress of the Italian Society of Chemotherapy

Catania, Italy

June 12, 1997

142. Neo-adjuvant M-VAC Chemotherapy and Bladder Sparing.

Annual Meeting Euro-American Urological Association

Lisbon, Portugal

September 25, 1997

143. Bladder Tumors.

Round Table on Organ Preservation in Breast, Head and Neck, Bladder,

and Rectal Carcinoma

XV National Meeting of Experimental and Clinical Oncology

Italian Association of Medical Oncology (A.I.O.M.)

Cagliari, Italy

October 5, 1997

144. Adjuvant and Neo-adjuvant Chemotherapy of Urothelial Carcinomas.

Annual Joint Meeting of the German and Austrian Societies for Hematology and Oncology

Linz, Austria

October 14, 1997

145. The Treatment of Bladder Carcinoma: The State of the Art.

Problems of Clinical Oncology on the Eve of the Year 2000

Oncological Institute Bari

Bari, Italy

April 29, 1998

146. State of the Art in Advanced Bladder Cancer 1998 Oncology Global Medical Conference Indianapolis, Indiana May 13, 1998

147. Neo-adjuvant and Adjuvant Chemotherapy in the Treatment of Locally Advanced Bladder Cancer.

Conservative Treatment of Infiltrating Bladder Tumors

Parma, Italy

June 13, 1998

- 148. 1) Hormone Escaped Prostate Cancer: Is There a Role for Systemic Chemotherapy?
 - 2) Supportive Treatment of Hormone Escaped Prostate Cancer European School of Urology Symposium on Hormone Escaped Prostate Cancer

St. Petersburg, Russia

June 20, 1998

149. Chemotherapy in Advanced Bladder Cancer: Are Lives Saved?

European School of Urology Course

Lisbon, Portugal

July 3, 1998

150. Hormone Escaped Prostate Cancer: Treatment Options

Annual Meeting Euro-American Urological Association

Paris, France

September 15, 1998

- 151. 1) Wait and See versus Adjuvant Chemotherapy in Non Seminomatous Germ Cell Tumor.
 - 2) Wait and See versus Carboplatin Chemotherapy in Seminoma.

Workshop on Therapy of Testicular Cancer in Initial Stage and Treatment

of Residual Masses

3) Chemotherapy after Transurethral Resection of the Bladder (TURB).

Workshop on Integrated Treatment of Infiltrating Bladder Cancer

8th National Congress of the Italian Society of Oncologic Urology (SIUrO)

Ischia, Italy

October 5-6, 1998

- 152. Treatment of Hormone Refractory Prostate Cancer: Chemotherapy and Future Prospects
 - 1) Prostate Disease Oriented Group of the E.O.R.T.C.
 - 2) General Assembly of the E.O.R.T.C. G.U. Group

Autumn Meeting of the E.O.R.T.C. G.U. Group

Varese, Italy

October 8, 1998

153. Chemotherapy and Surgery.

Integrated Treatment in Oncology for Bladder Preservation: Infiltrating Bladder Cancer.

Italian Association of Oncological Radiotherapy

Nerola, Italy

December 11, 1998

154. State of the Art in Advanced Bladder Cancer: Where Are We Now?

Lilly Oncology Regional Medical Conference and

European School of Oncology

Milan, Italy

February 8, 1999

- 155. 1) Gemcitabine in Bladder Cancer.
 - 2) Neoadjuvant Chemotherapy in Bladder Cancer.
 - 3) Neoadjuvant Antiandrogen Therapy in Prostate Cancer: the European Experience.

State of the Art in Urology

Vienna, Austria

February 12-13, 1999

156. The Medical Treatment of Bladder Cancer.

Specialization School of Medical Oncology

University of Verona – Civile Maggiore Hospital Borgo Trento

Verona, Italy

March 5, 1999

157. Neo-adjuvant Hormonal Therapy and Radiation Therapy in the Treatment of Locally Advanced Prostate Cancer.

Fourth International Conference on Neo-adjuvant Hormonal Therapy for Prostate Cancer Boston, Massachussetts March 12, 1999

158. 1) Neo and Adjuvant Chemotherapy for Invasive Bladder Cancer.

ESU Post Graduate Course on Management and Outcome in Invasive and Locally Advanced Bladder Cancer.

Annual Meeting European Association or Urology (EAU)

Stockholm, Sweden

April 9, 1999

159. New Approaches to Treatment with Gemcitabine.

Symposium on Management of Advanced Bladder Cancer.

Annual Meeting European Association of Urology (EAU)

Stockholm, Sweden

April 9, 1999

160. Management of advanced bladder cancer: Treatment of Metastatic Disease and Adjuvant Treatment. European School of Urology Course on Bladder and Prostate Cancer (ESU).

Rostov on Don, Russia

May 29, 1999

161. Neoadjuvant chemotherapy in Bladder Cancer.

Symposium on Bladder Cancer.

XI Advanced Course of Medical Oncology

European School of Oncology

Madrid, Spain

June 11, 1999

162. The Management of Advanced Bladder Cancer.

Lilly Young Investigator's Meeting

Indianapolis, Indiana

June 25, 1999

- 163. 1) Neo-adjuvant Chemotherapy in Bladder Cancer.
 - 2) Adjuvant Chemotherapy in Bladder Cancer.
 - 3) Chemotherapy in Metastatic Bladder Cancer.

Symposium and Training on Bladder Cancer

Florence, Italy

July 13, 1999

- 164. 1) Neo-adjuvant and Adjuvant Chemotherapy: True and False.
 - 2) Metastatic Bladder Cancer.

The 3rd International Symposium on Bladder Cancer: Invasive Bladder

Cancer: The State of the Art

Padua, Italy

September 24, 1999

- 165. 1) Is it Feasible to Preserve the Bladder in Muscle Invasive TCC?
 - 2) What Are the Limits of Current Chemotherapy Regimens for Bladder Cancer? Are There New Promising Agents?
 - 3) Approach to the Chemo-Refractory Patient with Metastatic TCC.
 - 4) State of the Art Lecture: Immunotherapy in Renal Cell Carcinoma.
 - 5) Hormone Refractory Prostate Cancer: What Are the Current Treatment Options? Secondary Hormone Treatment, Chemotherapy, Vaccines?

4th Ankara Uro-Oncology Course and 1st European School Urology (ESU) Uro-Oncology Course

A 1 To 1

Ankara, Turkey

October 2-3, 1999

166. Hormone Refractory Prostate Cancer.

VI National Congress of the Urological Hospital Association (AURO)

Palermo, Italy

October 8, 1999

167. Systemic Treatment of Advanced and Metastatic Disease: State of the Art.

Adjuvant Chemotherapy in Locally Advanced Bladder Cancer

Course Director and Teacher in Bladder Cancer Course of the European School of Oncology (ESO)

Milan, Italy

October 15-16, 1999

168. Gemcitabine in Bladder Cancer- Moderator and Discussant

First Congress of the Association of Medical Oncology (AIOM)

Rome, Italy

October 26, 1999

169. Bladder Preservation in Locally Advanced Bladder Cancer First Congress of the Association of Medical Oncology (AIOM) Rome, Italy October 28, 1999

170. Systemic Therapy of Prostate Cancer: New Strategies XV International Course of Urology "Madrid '99" Course of the Spanish Urological Association) Madrid, Spain October 28-30, 1999

171. 1) Hormone Refractory Prostate Cancer

2) Adjuvant Chemotherapy in Locally Advanced Bladder Cancer eURO training - International Symposium on Dilemmas in Bladder and Prostate Cancer Milan, Italy

November 4-6, 1999

172. The Neo-Adjuvant and Adjuvant Chemotherapy in Bladder Cancer.

The Chemotherapy in Metastatic Bladder.

Advanced Course in Oncology

University of Padua

Padua, Italy

January 18, 2000

173. The State of the Art of Chemotherapy for Advanced Bladder Cancer

International Course in Urology

Cortina D'Ampezzo, Italy

March 10, 2000

174. Chemottherapy in Advanced Prostate Cancer

Prostate cancer today: International symposium

Genoa, Italy

March 28, 2000

175. Update in Chemotherapy of Advanced Bladder Cancer ESU Post Graduate Course

Brussels, Belgium

April 14, 2000

176. Neo-Adjuvant Chemotherapy and Bladder Preservation for Muscle-Invasive Bladder Cancer

XVth Congress of the European Association of Urology

Brussels, Belgium

April 15, 2000

177. Can we select Patients for Bladder Preservation based upon Response to Chemotherapy?

American Urological Association's Annual Meeting 2000

Atlanta, Georgia

May 2, 2000

178. Second-line Chemotherapy with every 2-Week Gemcitabine and Paclitaxel in Previously Treated Patients with TCC.

American Urological Association's Annual Meeting 2000

Atlanta, Georgia

May 2, 2000

179. Randomized Phase III Trial in Advanced Urothelial Tract Tumors of High Dose Intensity M-VAC Chemotherapy and G-CSF versus Classic M-VAC ASCO

New Orleans, Louisiana

May 23, 2000

180. Management of Metastatic Bladder Cancer: New Prospectives with Gemcitabine.

Tel Aviv, Israel

September 12, 2000

181. New Chemotherapeutic Strategies in Advanced Transitional Cell Carcinoma.

Euro American Urological Association's 9th Meeting

Taormina, Italy

September 30, 2000

182. Chemotherapy in the Management of Advanced Testis Cancer

9th Course Urology 2000: Yesterday, today, and tomorrow Erice, Italy
November 26, 2000

183. Second-line Chemotherapy in Advanced Bladder Cancer. 9th Course Urology 2000: Yesterday, today, and tomorrow

Erice, Italy

November 27, 2000

184. Advances in Treatment of Bladder Cancer in the Year 2000

Overview 2000: a Year of Oncology

Milan, Italy

December 19, 2000

185. Chemotherapy of Bladder Cancer: State of the Art

Accademia Lancisiana

Rome, Italy

January 9, 2001

186. Role of Chemotherapy in Prostate Cancer

Winter Urologic Forum

Snowmass, USA

February 5, 2001

187. Overview of Collaborative Group and International Trials

The Genolier-Geneva-MSKCC Cancer Conferences

Prostate Cancer 2001

Lecturer and Chairman Prostate Cancer 2001

Geneva, Switzerland

February 15, 2001

188. Can the Patient with Locally Advanced Disease be Saved?

ESU Course: Management and Outcome in Invasive Locally Advanced

Bladder Cancer and Case Presentations

XVIth Congress of the European Association of Urology

Geneva, Switzerland

April 08, 2001

189. M-VAC Neo-Adjuvant Therapy is Not Standard Treatment for Muscle-

Invasive Bladder Cancer ASCO Plenary Session San Francisco, USA May 14, 2001

190. Medical Therapy in Urologic Tumors (State of the Art)

GUONE

Controversies in Urologic Oncology

Desenzano, Italy

June 22, 2001

191. How Medical Therapy changes in Oncology?

New Perspectves in the Treatment of Bladder Cancer

1° Congress in Oncology in the Tuscia Area

San Martino al Cimino – Viterbo, Italy

October 5, 2001

192. Systemic Treatment and New Developments in Advanced Prostate Cancer.

Prostate Cancer Educational Session

Chairman and Speaker

Ecco 11

Lisbon, Portugal

October 22, 2001

193. Chemotherapy in Organ Preservation in Muscle Invasive Bladder Cancer

Round Table: Organ Preservation in Bladder Cancer

Ecco 11

Lisbon, Portugal

October 24, 2001

194. Endoscopic Surgery and Bladder Preservation: Possibilities, Limits,

Perspectives

Urologic Days A.O. Monaldi

Naples, Italy

November 10, 2001

195. Neoadjuvant and Adjuvant Chemotherapy: Which Patients Need it?

Perspectives in Bladder Cancer

Monte Carlo

November 17, 2001

196. The Role of Chemotherapy

Round Table: New Concepts and Perspectives on Bladder Preservation for Muscle-Invasive Urothelial Cancer

SIUrO

Milan, Italy

December 4, 2001

197. New Developments in Transitional Cell Carcinoma in 2001

Grandangolo 2001

Milan, Italy

December 18, 2001

198. Retroperitoneal Lymphadenectomy in Testicular Tumors: When and Why?

Laparoscopy in Urology

Bari, Italy

February 9, 2002

199. Chemotherapy for Advanced Stages.

ESU Course: Testicular Cancer

XVIIth Congress of the European Association of Urology

Birmingham, Great Britain

February 24, 2002

200. Neo-adjuvant and Adjuvant Chemotherapy in the Management and Outcome of Invasive and Locally Advanced Bladder Cancer

ESU Course: Management and Outcome in Invasive Locally Advanced Bladder Cancer

XVIIth Congress of the European Association of Urology

Birmingham, Great Britain

February 26, 2002

201. Advanced Bladder Cancer in Patients over 70 Years Old.

V National Conference AIOM

Padua - Albano Terme

March 20, 2002

202. Results of Neoadjuvant and Adjuvant Chemotherapy in Invasive Bladder -

Facts and Fictions
EORTC GU Group General Assembly
EORTC Spring Meeting
Vienna, Austria
March 23, 2002

203. Advaced Nonseminomatous Germ Cell Tumors

Diverse Approaches to Chemotherapy University of Verona Verona, Italy

April 16 2002

April 16, 2002

204. Gemcitabine, Paclitaxel and Other Newer Agents for Locally Advanced/Metastatic Transitional Cell Carcinoma
Targeted Therapies in the Treatment of GU Cancer
Barcelona, Spain
April 19, 2002

205. Angiogenesis and Metastasis in GU Cancers

Session Chairman

Targeted Therapies in the Treatment of GU Cancer

Barcelona, Spain

April 20, 2002

206. Clinical Issues and Future Challenges in the Chemoprevention of Prostate and Bladder Cancers

COX-2 Scientific Advisory Board

Orlando, USA

May 17, 2002

207. Future Directions of COX-2 Inhibitors in the Treatment of Prostate and

Bladder Cancers

COX-2 Scientific Advisory Board

Orlando, USA

May 17, 2002

208. European Initiatives and the Relevance of M-VAC Chemotherapy P53/M-VAC Investigators Meeting

Orlando, USA

May 26, 2002

209. Innovative Therapies in Oncology

New Treatments and Strategies in Urothelial, Prostate, Testis and Kidney Cancers

National Acadamy of Medicine

Rome, Italy

June 7, 2002

210. Advanced and Invasive Bladder Cancer

Italian Bladder Cancer Study Group

4° GISCAV Meeting

Perugia, Italy

June 15, 2002

211. Treatment Options in Advanced Prostate Cancer

3° International Course in Live Surgery

Bologna, Italy

October 7, 2002

212. Direct from the Pipeline. Results of Phase I and II Studies of New Drugs

7th Congress on Progress and Controversies in Oncological Urology VII (PACIOU VII)

Rotterdam, Netherlands

October 12, 2002

213. Treatment Options in Hormone Resistant Prostate Cancer

Educational Session

27th ESMO Congress

Nice, France

October 19, 2002

214. Bladder Cancer-State of the Art Today

How to Improve the Outcomes within the Next Years

Educational Session

27th ESMO Congress

Nice, France

October 20, 2002

215. Adjuvant Chemotherapy of Bladder Cancer: Is There a Role?

Challenge Your Expert Session

Educational Session

27th ESMO Congress

Nice, France

October 21 + 22, 2002

216. New Targets for Anticancer Therapy

EORTC GU Group Autumn Meeting

Barcelona, Spain

November 9, 2002

217. Metastatic Renal Cell Cancer Treatments

Cytokines and Cancer

European Institute of Healthcare

Barcelona, Spain

November 9, 2002

218. Neoadjuvant and Adjuvant Chemotherapy in Urothelial Cancer

State of the Art in the Management of Urological Malignancies

Barcelona, Spain

November 10, 2002

219. Endpoints in Prostate Cancer Clinical Trials

Prostate Cancer Advisory Board Meeting

Brussels, Belgium

November 16, 2002

220. Last Year's Bladder Highlights and Novel Targeted Therapies in Urothelial

Tumors

Italian Society of Urologic Oncology

Florence, Italy

November 22, 2002

221. Grandangolo: Highlights in Genitourinary Oncology 2002

Speaker and Chairman

Genoa, Italy

December 18, 2002

222. Is Neo-Adjuvant M-VAC Now the Standard for T2-T4 Disease?

Second Annual Opinion Leader Summit

Targeted Therapies in the Treatment of Genitourinary Cancers

St. Thomas, Virgin Islands

January 17, 2003

223. Breast Cancer. New Biological Drugs

1° Advanced Oncological Teaching Course

Tumors in the Elderly

Bari, Italy

February 10, 2003

224. Update in the Treatment of Hormone Refractory Prostate Cancer

Section Meeting of the EORTC GU-Group: Quality in Prostate Cancer Diagnosis and Treatment

XVIIIth European Assoiation of Urology (EAU) Congress

Madrid, Spain

March 12, 2003

225. Update on Neoadjuvant and Adjuvant Chemotherapy

European School of Urology (ESU)Course: Management and Outcome in Invasive and Locally Advanced Bladder Cancer.

XVIIIth EAU Congress

Madrid, Spain

March 13, 2003

226. Bladder Sparing and Adjuvant Treatment of Advanced Urethelial Tumours.

Chairman

VIIIth European Assoiation of Urology (EAU) Congress

Madrid, Spain

March 14, 2003

227. Systemic Chemotherapy in Advanced Bladder Cancer

Challenge the Expert Session

XVIIIth European Assoiation of Urology (EAU) Congress

Madrid, Spain

March 15, 2003

228. Systemic Chemotherapy in Advanced Bladder Cancer

EORTC Spring Meeting Ghent, Belgium March 28, 2003

229. Chemotherapy in the Treatment of Prostate Cancer: What is Standard Therapy and What is New?

Regina Elena Cancer Institute

Rome, Italy

April 4, 2003

230. Treatment of Hepatic Metastatis from Colorectal Cancer

Annual Meeting Roman Society of Surgery

Rome, Italy

April 9, 2003

231. Bladder Cancer Chemotherapy – When and Why in 2003?

Plenary Session-State-of the Art Lecture

98th Annual Meeting American Urological Association

Chicago, USA

April 28, 2003

232. Combined Treatment Modalities in Gastric Cancer: How, When and Why?

Fifth International Gastric Cancer Congress

Rome, Italy

May 5, 2003

233. Role of Adjuvant and Neoadjuvant Chemotherapy in Locally Advanced

Bladder Cancer

2003 Oncology Global Medical Conference

Indianapolis, USA

May 29, 2003

234. Bcl-2 Targeting in Solid Tumors: Clinical Results

Direct Targeting of Apoptosis in Cancer Therapy Meeting

American Society of Clinical Oncology

Chicago, USA

May 30, 2003

235. Randomized Phase III Trial of a New Oral Platinum, Satraplatin (JM-216)

plus Prednisone of Prednisone Alone in Patients with Hormone Refractory

Prostate Cancer

American Society of Clinical Oncology

Chicago, USA

June 3, 2003

236. Integrated Therapy in Bladder and Pancreas Cancers

Ruolo delle Terapie Integrate nei Tumori Solidi – Incidenza, Prevenzione e Trattamento degli Effetti Collaterali

Genoa, Italy

June 17, 2003

237. Endpoints for Clinical Trials Involving Hormone Refractory Patients

International Symposium on Prostate Cancer. Novel Strategies for a New

Disease

Turin, Italy

September 17, 2003

238. Round Table: What is the Role of Urologist, Radiotherapist, Medical

Oncologist in the Multimodal Management of Prostate cancer?

International Symposium on Prostate Cancer. Novel Strategies for a New

Disease

Turin, Italy

September 17, 2003

239. Docetaxel in the Treatment of Hormone Refractory Prostate Cancer

International Symposium on Prostate Cancer. Novel Strategies for a New

Disease

Turin, Italy

September 18, 2003

240. Novel Targets for Prostate Cancer Therapy

International Symposium on Prostate Cancer. Novel Strategies for a New

Disease

Turin, Italy

September 18, 2003

241. Satraplatin plus Prednisone vs Placebo plus Prednisone in Patients with

Hormone Refractory Prostate Cancer Previously Treated with one Cytotoxic

Chemotherapy Regimen
European Investigators and Study Coordinators Meeting
Barcelona, Spain
September 19, 2003

242. Randomized Phase III Trial of a New Oral Platinum, Satraplatin (JM-216) plus Prednisone or Prednisone Alone in Patients with Hormone Refractory Prostate

Cancer

EORTC Genitourinary Tract Group Protocol # 30972 European Investigators and Study Coordinators Meeting Barcelona, Spain September 19, 2003

243. Overview of Chemotherapy in Advanced Bladder Cancer Investigator Meeting Rome, Italy
September 30, 2003

244. Phase II Trial of Gemcitabine and Taxol as Second Line Therapy in Advanced Bladder Cancer Investigator Meeting Rome, Italy
September 30, 2003

245. Phase II Trial of Gemcitabine and Taxol as First Line Therapy in Advanced Bladder Cancer Investigator Meeting Rome, Italy September 30, 2003

246. Evolving Strategies in the Treatment of Colorectal Cancer 1st Mediterranean Conference on Oncology October 7, 2003

Bari, Italy

247. Chemotherapy of Metastatic Bladder Cancer: State of the Art in 2003 European American Urological Association: 10th Meeting October 13, 2003 Rome, Italy

248. Emerging Startegies in the Therapy of Metastatic Bladder Cancer

State of the Art in 2003 Vth National Congress in Medical Oncology Italian Association of Medical Oncology October 21, 2003 Rome, Italy

249. Satraplatin: A New Anticancer Agent for Prostate Cancer CaPCURE 2003 Tenth Annual Scientific Retreat November 9, 2003 New York, USA

250. Chemotherapy in Bladder Cancer: Past, Present and Future Treatment Strategies in Bladder Cancer January 27, 2004 Amsterdam, The Netherlands

251. Neoadjuvant and Adjuvant Therapy in Bladder Cancer Third International Symposium On Genitourinary Cancers February 27, 2004 Santa Barbara, USA

252. The Management of Advanced Prostate CancerThe University of VeronaMarch 5, 2004Verona, Italy

253. New Devlopments and Therapeutic Strategies in Advanced Renal Cell Cancer Regina Elena Cancer Institute March 10, 2004

Rome, Italy

254. Chemotherapy and New Stretaegies in Bladder Cancer-Neo-Adjuvant, Adjuvant and Advanced Cancer San Camillo Hospital March 17, 2004 Rome, Italy

255. Adjuvant or Neo-adjuvant Chemotherapy in Locally Advanced Bladder

Cancer

March 24, 2004

XIXth Congress of the EAU

Vienna, Austria

256. Neo-adjuvant Chemotherapy and Adjuvant in Muscle Infiltrating Bladder Cancer

March 25, 2004

ESU Course in Urology

XIXth Congress of the EAU

Vienna, Austria

257. Phase III Activity and Safety of Combination Therapy with Chemotherapy and Biologically Targeted Therapy

April 7, 2004

Phase III Clinical Trials in Oncology

Evolving Guidelines and Innovations for Targeted Therapies

Amsterdam, The Netherlands

258. Bladder Cancer Chemotherapy: When and Why in 2004

and Visiting Professor

April 20, 2004

University of Leuven, Belgium

259. Treatment of Hormone Prostate Resistant Cancer

May 20, 2004

10th Course Advances and Controversies in Urological Oncology

Erice, Italy

260. Is There Still a Role for Bladder Preservation?

May 22, 2004

10th Course Advances and Controversies in Urological Oncology

Erice, Italy

261. Treatment of Metastatic Kidney Cancer

May 22, 2004

10th Course Advances and Controversies in Urological Oncology

Erice, Italy

262. New Treatments for Metastatic Kidney Cancer

June 2, 2004

Challenges in Laparoscopy

Rome, Italy

263. New Trends in the Treatment of Testis Cancer

June 3, 2004

Challenges is Laparoscopy

Rome, Italy

264. New Treatments in Hormone Refractory Prostate Cancer

June 4, 2004

Challenges in Laparoscopy

Rome, Italy

265. Multidisciplinary Cancer Management Course: Prostate Cancer

June 6, 2004

ASCO

New Orleans

266. Molecular Targeted Therapy in the Treatment of Pancreas Cancer

June 25, 2004

VII Congresso Nazionale G.O.I.M.

Rome, Italy

267. Best of ASCO 2004. Genitourinary Cancer Highlights

July 10, 2004

Roswell Park

Buffalo, New York

268. Chemotherapeutic Advances in the Management of Advanced Bladder

Cancer

September 14, 2004

Contemporary Issues in Urology

Dublin, Ireland

269. Chemioterapia e Carcinoma Prostatico: Il Ruolo di Docetaxel

September 21, 2004

AIOM

Bologna, Italy

270. Evidence for the Use of Interferon vs High-Dose Interleukin and the Role of Targeted Therapy in Renal Cell Carcinoma

October 3, 2004

Global GU Oncology Conference

SIU International

Honolulu, Hawaii

271. Management of Recurrent and Advanced Metastatic Prostate Carcinoma

October 4, 2004

SIU International

Honolulu, Hawaii

272. Chemotherapy for Bladder Cancer: Treatment Guidelines for Neo-adjuvant,

Adjuvant and Metastatic Cancer

October 6, 2004

International Consensus Conference on Bladder Cancer

Plenary Session

SIU International

Honolulu, Hawaii

273. The Emerging Role of Taxanes in Hormone Refractory Prostate Cancer

October 9, 2004

The Changing Face of Prostate Cancer Care

London, UK

274. Chemotherapy in the Management of Localized Bladder Cancer

October 25, 2004

ESTRO 23Congress

Amsterdam, Netherlands

275. The Role of EGFR Targeted Therapy in Bladder Cancer and the

Role of Cytokines in Renal Cell Carcinoma

29th ESMO Congress

October 30, 2004

Vienna, Austria

276. Neo-adjuvant and Adjuvant Hormonal Therapy: Who and When?

Diagnosis and Therapy in Localized Prostate Cancer November 20, 2004 Rome, Italy

277. Muscle Invasive and Infiltrative Bladder Cancer

EAU Guidelines Office Chairmen Meeting

December 4, 2004

Rome, Italy

278. Prostate and Renal Cell Cancer Highlights

Grandangolo 2004

December 15, 2004

Genoa, Italy

279. Adjuvant or Neoadjuvant Chemotherapy in Invasive Bladder Cancer?

National Oncology Meeting ISCORT-4

January 12, 2005

Eilat, Israel

280. Targeted Therapy in Androgen-independent Prostate Cancer

National Oncology Meeting ISCORT-4

January 13, 2005

Eilat, Israel

281. Chemotherapy in Prostate Cancer

National Oncology Meeting ISCORT-4

January 13, 2005

Eilat, Israel

282. Ixabepilone (Epothilone analogue) in HRPC

Ixabepilone in HRPC European Advisory Board

January 20, 2005

Paris, France

283. Neo-adjuvant and Adjuvant Chemotherapy in Infiltrative TCC of the

Bladder Cancer

2nd Meeting of the European Society of Oncological Urology (ESOU)

January 21, 2005

Bologna, Italy

284. Early Chemo-hormone Therapy: A new Strategy?

2nd Meeting of the European Society of Oncological Urology (ESOU)

January 22, 2005

Bologna, Italy

285. Prostate Cancer: Defining Low, Intermediate, and High Risk Disease Chairman Fourth International Symposium on Genitourinary Cancers January 29, 2005 Los Angeles

286. Surgical Management of Low Risk Disease Chairman

Fourth International Symposium on Genitourinary Cancers January 29, 2005 Los Angeles

287. Treatment of High Risk Disease with Multi-modality Approaches Chairman Fourth International Symposium on Genitourinary Cancers January 29, 2005 Los Angeles

288. Next Generation Chemotherapy and Satraplatin Trials
Fourth International Symposium on Genitourinary Cancers
January 29, 2005
Los Angeles, California

289. SU11248: An Oral Multitargeted Tyrosine Kinase Inhibitor with Promising Activity in Metastatic Renal Cell Carcinoma 3rd International Symposium on Targeted Anticancer Therapies March 4, 2005
Amsterdam, The Netherlands

290. The Role of Chemotherapy in Metastatic Prostate Cancer Plenary Session LectureXXth Congress of the EAUMarch 16, 2005

Istanbul, Turkey

291. Update on Neo-adjuvant and Adjuvant Chemotherapy in Invasive Bladder Cancer

XXth Congress of the EAU

European School of Urology Educational Course

March 18, 2005

Istanbul, Turkey

292. HRPC and Beyond: Treating Prostate Cancer through the Endothelin Axis

Spotlight on Prostate Cancer

XXth Congress of the EAU

March 18, 2005

Istanbul, Turkey

293. New Prospectives in the Chemotherapy of Prostate Cancer

University of Padua Cancer Center

April 5, 2005

Padua, Italy

294. Bladder Cancer Highlights ASCO 2005

ASCO

May 14, 2005

Orlando, USA

295. Seven Year Update of an EORTC Phase III Trial of High Dose Intensity M-

VAC Chemotherapy and G-CSF versus Classic M-VAC in Advanced Urothelial Tract Tumors

ASCO

May 16, 2005

Orlando, USA

296. Current Status of Systemic Treatments in Prostate Cancer.

Adjuvant Prostate Cancer Study 3501 Investigator's Meeting

June 17, 2005

New York, USA

297. Systemic Therapy in Localized Prostate Cancer Neoadjuvant and Adjuvant Sage Prostate Cancer Meeting

June 23, 2005 Paris, France

298. The Future of RCC with Targeted Therapy

Worldwide Oncology Forum

June 25, 2005

Athens, Greece

299. Multidisciplinary Approaches in Development in Early High Risk Disease

Adjuvant Prostate Cancer Study 3501 – Investigator's Meeting

September 19, 2005

Paris, France

300. New Molecular Targeted Therapies for RCC

103rd Annual Meeting New York Section, AUA

September 22, 2005

Vienna, Austria

301. Systemic Therapies for Prostate Cancer

103rd Annual Meeting New York Section, AUA

September 23, 2005

Vienna, Austria

302. What Level of Efficacy and Safety Evidence is Needed for New Agents in

1st and 2nd Line HRPC?

GU Advisory Board Meeting

October 7, 2005

Miami, USA

303. New Biological Therapy in Prostate Cancer

Innovations in Diagnosis and Treatment of Prostate Cancer

October 14, 2005

Rome, Italy

304. Genitourinary Cancers: New Biological Drugs and Vaccines

VII Congresso Nazionale di Oncologia Medica

October 19, 2005

Naples, Italy

305. Update on Prostate Cancer

ECCO 13 – Patients' Programme

October 31, 2005

Paris, France

306. FECS - ECCO 13 Prostate Cancer

Presidential Session

ECCO 13

October 31, 2005

Paris, France

307. Targeted Therapy in Androgen-Independent Prostate Cancer

Speaker and Chairman

ECCO 13

November 1, 2005

Paris, France

308. How to Treat Hormone Refractory Prostate Cancer Patients

Speaker and Chairman

ECCO 13 – Educational Symposium

November 3, 2005

Paris, France

309. HPRC: What has been Accomplished in HPRC, Where Are We Going?

CECOG Meeting

November 3, 2005

Paris, France

310. Chemotherapy of Advanced Disease

CECOG Meeting

November 4, 2005

Paris, France

311. Neo-Adjuvant Chemotherapy in Bladder Cancer

V Workshop de Urologia Oncologica

November 19, 2005

Cavoeiro, Portugal

312. Adjuvant Chemotherapy in Bladder Cancer: Pros and Cons

V Workshop de Urologia Oncologica November 19, 2005 Cavoeiro, Portugal

313. Targeted Therapy in Advanced Renal Cell Cancer

V Workshop de Urologia Oncologica

November 19, 2005

Cavoeiro, Portugal

314. Clinical Cases in Bladder and Renal Cancer

Speaker and Chairman

V Workshop de Urologia Oncologica

November 19, 2005

Cavoeiro, Portugal

315. New Molecular Targets for the Therapy of Renal Cancer

British Associaton of Urologic Surgery (BAUS)

Oncology Section

November 24, 2005

Edinburgh, United Kingdom

316. Approaches to the Treatment of Hormone Refractory Prostate Cancer

Symposium on HRPC

November 30, 2005

Stockholm, Sweden

317. New Horizons for Treatment of Hormone Refractory Prostate Cancer

Meet the Professor

Oncology Institute of Southern Switzerland (OSI)

December 14, 2005

Bellinzona, Switzerland

318. Neo-adjuvant Chemotherapy and Cystectomy

Fifth Multi-disciplinary Symposium on Genitourinary Cancers

January 27, 2006

Dana Point, California

319. Neo-adjuvant Chemotherapy and Bladder Preservation - TURB and Chemotherapy

Fifth Multi-disciplinary Symposium on Genitourinary Cancers January 27, 2006 Dana Point, California

320. Adjuvant Chemotherapy

Fifth Multi-disciplinary Symposium on Genitourinary Cancers January 27, 2006 Dana Point, California

321. Hormone Refractory Prostate Cancer - What's Novel?

Fifth Multi-disciplinary Symposium on Genitourinary Cancers January 27, 2006 Dana Point, California

322. Ketoconazole vs Immuno vs Early Chemotherapy in Prostate Cancer

Fifth Multi-disciplinary Symposium on Genitourinary Cancers January 28, 2006

Dana Point, California

323. PSA 110 – Symptomatic – Initial Chemotherapy and Second line Chemotherapy

Fifth Multi-disciplinary Symposium on Genitourinary Cancers

January 28, 2006

Dana Point, California

324. Novel Agents in Prostate Cancer

Strategic Advisory Group of Experts in Prostate Cancer February 23, 2006

San Francisco, California

325. Risk Assessment and Staging of Localized Disease

Co-Chairman

2006 ASCO Prostate Cancer Symposium - A Multidisciplinary Approach February 24, 2006

San Francisco, California

326. Mentorship/Career Development Lunch for Residents, Fellows, and Junior Faculty Mentor

2006 ASCO Prostate Cancer Symposium - A Multidisciplinary Approach

February 25, 2006 San Francisco, California

327. Hormone Refractory Prostate Cancer- When and How to Treat?

Optimizing Systemic Therapy

2006 ASCO Prostate Cancer Symposium - A Multidisciplinary Approach

February 26, 2006

San Francisco, California

328. Indications of Chemotherapy Novel Agents in Hormone Refractory

Treatment of Prostate Cancer and Targeted Therapies

ESMO International Symposium (EIS) on Prostate Cancer

March 11, 2006

Antwerp, Belgium

329. Promising Agents Targeting Membrane Receptors

Chairman

4th International Symposium Targeted Anticancer Therapies

March 17, 2006

Amsterdam, Netherlands

330. Treatment and Phrophylaxis of Cerebral Metastses from Non Small Cell

Lung Cancer

Round Table – Moderator

AIOM

March 31, 2006

Rome, Italy

331. Hormone Refractory Prostate Cancer

Co-Chairman

XXIth Congress of the EAU

April 5, 2006

Paris, France

332. Neoadjuvant and Adjuvant Chemotherapy for Invasive Bladder Cancer

XXIth Congress of the EAU

April 6, 2006

Paris, France

333. Hormone Refractory Prostate Cancer- When and How to Treat?

XXIth Congress of the EAU

April 6, 2006

Paris, France

334. Pazopanib Overview. An Oral, Multi-Target Tyrosine Kinase Inhibitor

First European International Kidney Cancer Symposium

April 29, 2006

Madrid, Spain

335. What's Novel in the Treatment of Hormone Refractory Prostate Cancer

Prestige Seminars in Oncology

Institut Jules Bordet

May 5, 2006

Brussels, Belgium

336. Front Line and Second Line Therapies

Education Session: Chemotherapy in the Management of Prostate Cancer

ASCO Annual Meeting

June 5, 2006

Atlanta, USA

337. Medical Management of Prostate and Renal Cancer

Challenges in Laparoscopy 2006

June 7, 2006

Rome, Italy

338. Hormone Refractory Prostate Cancer- When and How to Treat?

ESMO Multidisciplinary Prostate Cancer Meeting

September 9, 2006

Antwerp, Belgium

339. Chemotherapy and Prostate Cancer: Actual State of Developments and

Future of Chemotherapy in Combined Treatments

International Advanced Symposium: Laparoscopic Treatment of

Urological Pelvic Cancers: Prostate and Bladder

September 16, 2006

Strasbourg, France

340. Overview of Satraplatin Trials in Hormone Refractory Prostate Cancer 31st ESMO Congress
September 29, 2006
Istanbul, Turkey

341. Muscle Invasive and Metastatic Bladder Cancer 31st ESMO Congress
September 30 and October 1, 2006
Istanbul, Turkey

342. Ongoing Trials and the Future in Hormone Refractory Prostate Cancer Improving Clinical Outcomes in Genitourinary Malignancies: A Focus on Prostate and Renal Cancers October 6, 2006 Monte-Carlo, Monaco

343. Biphosphonates in the Treatment of Hormone Refractory Prostate Cancer Optimizing Bone Health Management in Patients with Prostate Cancer and other Genitourinary Cancers – Advisory Board Meeting October 8, 2006

Monte-Carlo, Monaco

344. Invasive Bladder Cancer: The Best Management – Round Table
 Urology Beyond Boundaries
 October 26, 2006
 Nijmegen, The Netherlands

345. Hormone Refractory Prostate Cancer: Role of the Oncologist AUA New York Section Annual Meeting October 29, 2006
New Delhi, India

346. Surgery and Beyond. New Biologic Targeted Therapies in Renal Cell Carcinoma

What is Hot and What is Not! AUA New York Section Annual Meeting November 4, 2006 Jaipur, India 347. New Targeted Therapies in Renal Cell Carcinoma North Zone Section Meeting of the Urological Society in Jaipur November 4, 2006 Jaipur, India

348. The Management of Hormone Resistant Prostate Cancer 3rd All Ireland Cancer Conference 2006
November 13, 2006
Belfast, Ireland

349. Treatment of Hormone Refractory Prostate Cancer and New Pharmacological Approaches Regina Elena Cancer Institute November 24, 2006 Rome, Italy

350. Moderator, Mesothelioma Session Xth National FONICAP Congress December 7, 2006 Rome, Italy

351. Highlights of Bladder and Renal Cancer in 2006 Grandangolo 2006 December 18, 2006 Genoa, Italy

352. Optomizing Treatment Option for Men with Advanced Prostate Cancer through a Multidisciplinary Approach
Symposium Chairman and Speaker
January 12-13, 2007
Rome, Italy

353. Chemotherapy for Bladder Cancer 65th Onology Day
Netherlands Cancer Institute
January 23, 2007
Amsterdam, The Netherlands

354. Multicenter randomized EORTC trial 30021 of Docetaxel + Oblimersen and

Docetaxel in patients (pts) with hormone refractory prostate cancer (HRPC)

ASCO Prostate Cancer Symposium

February 23, 2007

Orlando, USA

355. Targeted Therapy in Hormone Refractory Prostate Cancer

5th International Symposium on Targeted Anticancer Therapies (TAT)

March 9, 2007

Amsterdam, The Netherlands

356. When to Give Neo-Adjuvant or Adjuvant Therapy

EORTC GU-Group Meeting. Translating Results of Clinical Trials into Clinical Urological Practice

XXIIth Congress of the European Association of Urology (EAU)

March 21, 2007

Berlin, Germany

357. Neoadjuvant and Adjuvant Chemotherapy for Invasive Bladder Cancer

ESU Course 13

XXIIth Congress of the European Association of Urology (EAU)

March 22, 2007

Berlin, Germany

358. Optimising Treatment Management of Advanced Prostate Cancer through Multidisciplinary Approach.

Chairman and Speaker

State of the Art in the Treatment of Hormone Refractory Prostate Cancer

XXIIth Congress of the European Association of Urology (EAU)

March 22, 2007

Berlin, Germany

359. Novel Agents in Metastatic Bladder Cancer

XIVth National Congress of the Italian Association Medical Oncology (AIOM) April 19, 2007

Pescara, Italy

360. The Contemporary Role of Chemotherapy in Hormone Refractory Prostate

Cancer

Austrian Uro-Weekend

April 20, 2007 Rome, Italy

361. Multicenter European Trials in Metastatic Renal Cell Cancer The Second European International Kidney Cancer Symposium May 5, 2007 Rome, Italy

362. Oral Platinum Analogues in Hormone Refractory Prostate Cancer Recent data from Phase III Trials
 43rd American Society of Clinical Oncology (ASCO) Symposium June 1, 2007
 Chicago, USA

363. Satraplatin Demonstrates Significant Clinical Benefits for the Treatment of Patients with HRPC: Results of a Randomized Phase III Trial 43rd American Society of Clinical Oncology (ASCO)
June 4, 2007
Chicago, USA

364. A Medical Oncologist's Perspective on the Treatment of Patients with Genitourinary Malignancies
3rd Conference of the World Urologic Oncology Federation (WUOF)
September 2, 2007
Paris, France

365. Renal Cell Carcinoma: A Critical Appraisal and a Look Forward A Second Symposium on Advanced GU Malignancy:
Optimizing Clinical Outcomes in Prostate and Renal Cell Carcinomas 29th Congress of the Société Internationale d'Urologie (SIU)
September 2, 2007
Paris, France

366. What is New in Renal Cancer. Novel Targeted and Signaling Pathway Inhibitors - Ongoing Studies
14th European Cancer Conference (ECCO)
September 24, 2007
Barcelona, Spain

367. Future Directions in Prevention and Early Detection in Prostate, Lung and Colon Cancer.

Future Directions in Prevention and Early Detection of Prostate Cancer 14th European Cancer Conference (ECCO)

September 25, 2007

Barcelona, Spain

368. Satraplatin Increases PFS and Delays Pain Progression in HRPC: SPARC an International Phase III Trial

14th European Cancer Conference (ECCO)

September 25, 2007

Barcelona, Spain

369. Gestione Integrate del Carcinoma Renale Avanzato

Italian Society of Urology (SIU)

September 30, 2007

Bari, Italy

370. Pazopanib (GW786034) in Advanced/Metastatic Renal Cell Carcinoma

The Sixth International Kidney Cancer Symposium

October 13, 2007

Chicago, USA

371. Advanced Prostate, Bladder and Renal Cancer

Urology Steering Committee Advisory Board

October 13, 2007

Chicago, USA

372. New Options in the Management of Renal Cell Cancer

EAU 1st Eastern Mediterranean Meeting

October 19, 2007

Antalya, Turkey

373. Targeted Therapy in Renal Cell Carcinoma

Embracing Excellence in Prostate and Kidney Cancer

1st European Multidisciplinary Meeting on Urological Cancer

November 2, 2007

Barcelona, Spain

374. Prostate Cancer and Renal Cell Cancer

Press Conference: Excellence in Multidisciplinary Patient Care Embracing Excellence in Prostate and Kidney Cancer 1st European Multidisciplinary Meeting on Urological Cancer November 2, 2007

Barcelona, Spain

375. Update on Hormone Refractory Prostate Cancer Treatment

World Wide Prostate Cancer Coalition Meeting - WWPCC

November 3, 2007

Barcelona, Spain

376. Therapy in Hormone Resistant Prostate Cancer

Moderator

Embracing Excellence in Prostate and Kidney Cancer 1st European Multidisciplinary Meeting on Urological Cancer November 4, 2007

Barcelona, Spain

377. Prostate Cancer: What Does the Future Hold?

Embracing Excellence in Prostate and Kidney Cancer

1st European Multidisciplinary Meeting on Urological Cancer

November 4, 2007

Barcelona, Spain

378. Oral Platinum Analogues in Hormone Refractory Prostate Cancer

XVII Congress Italian Society of Oncologic Urology (SIUrO)

November 24, 2007

Modena, Italy

379. Satraplatin in Hormone Refractory Prostate Cancer

X International Symposium on Platinum Coordination Compounds in Cancer Chemotherapy

November 30, 2007

Verona, Italy

380. Genitourinary Clinical Cases

Grandangolo 2007

December 18, 2007

Genoa, Italy

381. Novel Agents in Castration Resistant Prostate Cancer

New Options in the Treatment of Urologic Cancers

January 21, 2008

Rome, Italy

382. Challenges in the Treatment of Advanced Prostate Cancer: Creating a Shared Vision for Optimal Patient Care

Uro-Oncology Expert Multidisciplinary Workshop

The World Congress on Controversies in Urology (CURy)

January 31, 2008

Barcelona, Spain

383. Your Patient, Your Choice: When is the Best Time to Start Chemotherapy?

Controversies in Advanced Prostate Cancer: The Evolving Role of Chemotherapy

Plenary Session

The World Congress on Controversies in Urology (CURy)

February 2, 2008

Barcelona, Spain

384. Working Together to Achieve Optimal Patient Care

Panel Discussion

The World Congress on Controversies in Urology (CURy)

February 2, 2008

Barcelona, Spain

385. State of the Art/Unmet Needs in Advanced Renal Cancer

Sage Genitourinary Cancers Meeting

February 13, 2008

San Francisco

386. Best of Journals Session - Renal Cell Cancer and the AVOREN Study

Discussant

The Genitourinary Cancers Symposium

February 16, 2008

San Francisco

387. General Session IX: Transitional Science in Renal Cell Cancer

Co-Chair

The Genitourinary Cancers Symposium

February 16, 2008

San Francisco

388. Chemotherapy and Targeted Therapy in Metastatic Prostate Cancer

ESU Course 12

XXIIIth Congress of the European Association of Urology (EAU)

March 27, 2008

Milan, Italy

389. Directions in Chemotherapy for Advanced Prostate Cancer:

Your Team, Your Patient, Your Choice

XXIIIth Congress of the European Association of Urology (EAU)

March 27, 2008

Milan, Italy

390. New Insights in Bladder Cancer

Meet the Expert Session

XXIIIth Congress of the European Association of Urology (EAU)

March 28, 2008

Milan, Italy

391. Sunitinb Molecular Targeted Therapy in Solid Tumors

Translation Research in Oncology: Results and prospects

XVI National Conference in Medical Oncology

April 11, 2008

Perugia, Italy

392. Multinodal Treatment of Renal Metastasies

Accademia Lancisiana

April 15, 2008

Rome, Italy

393. New Targets for Treatment of Renal Cell Carcinoma

Third European International Kidney Cancer Symposium

May 3, 2008

Paris, France

394.Safety and Efficacy of Sunitinib in Metastatic Renal Cell Carcinoma: Preliminary Assessment of an Italian Expanded Access Program with Subpopulation Analysis Moderated Poster Session: Kidney Cancer - Evaluation and Treatment

American Urological Association Annual Meeting

May 20, 2008

Orlando, USA

395. Novel Agents and Strategies: What Does the Future Hold?

Systemic Therapy for Muscle Invasive Bladder Cancer: Who Should Receive Chemotherapy and When

44th Annual Meeting of the American Society of Clinical Oncology (ASCO)

June 1, 2008

Chicago, USA

396. Update in Genitourinary Oncology

Challenges in Laparoscopy & Robotics

June 7, 2008

Rome, Italy

397. Translational Research: Fighting The Killers. Prostate Cancer

Cancer Genotypes and Cancer Phenotypes – Istituto Toscano Tumori

July 5, 2008

Florence, Italy

398. Expanding the Boundaries of Clinical Practice: Building on Experience with

Targeted Therapies

Satellite Symposium

33rd ESMO Congress

September 12, 2008

Stockholm, Sweden

399. Systemic Chemotherapy and New Experimental Approaches

Educational Session

33rd ESMO Congress

September 13, 2008

Stockholm, Sweden

400. Everolimus (RAD001) vs Placebo after VEGFR-TKI Failure in Metastatic

Renal Cell Carcinoma. Have we raised the bar?

33rd ESMO Congress

September 16, 2008

Stockholm, Sweden

401. Bladder Preservation in Patients with Muscle Invasive Bladder Cancer

Congress of the Italian Society of Urology (SIU)

September 22, 2008

Rome, Italy

402. Session: Novel Agents on the Horizon

Moderator

Kidney Cancer Association Meeting

September 27, 2008

Chicago, USA

403. Neoadjuvant and Adjuvant Chemotherapy for Bladder Cancer

Harvard Urology Oncology Course 2008

October 3, 2008

Boston, USA

404. Treatment for Advanced Renal Cell Carcinoma

Harvard Urology Oncology Course 2008

October 4, 2008

Boston, USA

405. Molecular Targeted Therapy for Advanced Disease

Improving Clinical Outcomes in Genitourinary Malignancy:

Third Annual Multidiscliplinary Symposium

October 31, 2008

Paris, France

406. Current Clinical Trials and Future Directions in Advanced Prostate Cancer

Improving Clinical Outcomes in Genitourinary Malignancy:

Third Annual Multidiscliplinary Symposium

October 31, 2008

Paris, France

407. Treatment Options in Renal Cell Carcinoma: What Does the Future Hold? Highlights in the Management of Kidney Cancer November 8, 2008

Rome, Italy

408. Systemic Chemotherapy and New Experimental Approaches in Prostate Cancer

November 10/12/13, 2008

Brisbane, Melbourne, Sydney, Australia

409. High Risk Localized Prostate Cancer

Trans Tasman Radiation Oncology Group (TROG)

November 13, 2008

Sydney, Australia

410. New Therapies in Renal Cell Carcinoma

Clinical Research at the San Camillo-Forlanini Hospitals

November 20, 2008

Rome, Italy

411. Novel Molecular Targeted Therapy

Diagnostic and Therapeutic Opportunities in Renal Cell Carcinoma

December 11, 2008

Rome, Italy

412. Systemic Chemotherapy and New Experimental Approaches in the

Treatment of Metastatic Prostate Cancer

European School of Oncology (ESO) E-grandround

January 22, 2009

Rome, Italy

413. Challenges in the Treatment of RCC, What's on the Horizon and Beyond?

Interactive Genitourinary Cancer Conference (IGUCC)

February 4, 2009

Lisbon, Portugal

414. Past, Present and Future Chemotherapy Regimens in the Treatment of

Advanced Bladder Cancer (IGUCC)

February 4, 2009

Lisbon, Portugal

415. Advances in the Management of Metastatic Renal Cell Cancer

Controversies in Urology (CURy)

February 6, 2009

Lisbon, Portugal

416. Treatment Strategies in Advanced Prostate Cancer/GU Malignancies:

The Use of Bisphosphonates Across the Continuum

Controversies in Urology (CURy)

February 7, 2009

Lisbon, Portugal

417. Renal Cell Cancer: Sorting the Players

Promising Agents in Development for Genitourinary Cancers

SAGE Genitourinary Symposium

February 25, 2009

Orlando, USA

418. Pazopanib in Locally Advanced and/or Metastatic Renal Cell Carcinoma:

Results From a Randomized Phase III Trial (VEG105192)

Pazopanib European RCC Board

March 14, 2009

Rome, Italy

419. Chemotherapy and Targeted Therapies

European School of Urology (ESU) Course - Metastatic Prostate Cancer

XXIVth Congress of the European Association of Urology (EAU)

March 19, 2009

Stockholm, Sweden

420. Bladder Preservation Debate with Prof. Urs Studer

Plenary Session 3 – Focus on Bladder Cancer

XXIVth Congress of the European Association of Urology (EAU)

March 19, 2009

Stockholm, Sweden

421. Not another TKI

Managing Metastatic Disease

4th European International Kidney Cancer Symposium

May 8, 2009

Berlin, Germany

422. The Oncologist: T3 Prostate Cancer

Prostate Cancer: Diagnosis and Treatment. An Update

Urologi Ospedalità Gestione Privata – U.r.O.P.

May 15, 2009

Rome, Italy

423. Adjuvant Therapy After Radical Prostatectomy: The Place of Chemotherapy

Challenges in Laparoscopy & Robotics 2009

May 25, 2009

Paris, France

424. Best Practices for the Management of Relapsed / Refractory RCC

Critical Choices for Improving Outcomes in Renal Cell Carcinoma

45th American Society of Clinical Oncology (ASCO) Symposium

May 31, 2009

Orlando

425. Phase III Trial of Pazopanib in Locally Advanced and/or Metastatic Renal

Cell Carcinoma

45th Annual Meeting of the American Society of Clinical Oncology (ASCO)

Symposium

June 1, 2009

Orlando

426. Novel Therapy in Metastatic RCC

June 23, 2009

Tel Aviv, Israel

427. Neo-Adjuvant and Adjuvant Chemotherapy: State of the Art

Hot Topic on Bladder Cancer

Società Italiana di Urologia Oncologica (Siuro)

June 25, 2009

Milan, Italy

428. Pazopanib: Another TKIs or Therapeutic Breakthrough

Second Pavia International Symposium on Advanced Kidney Cancer

June 27, 2009

Pavia, Italy

429. Renal Cell Carcinoma: An Amazing Story of Improved Outcomes

Satellite Symposium: Exploring New Horizons in Renal Cell Carcinoma and

Prostate Cancer

September 20, 2009

Berlin, Germany

430. Predictive and prognostic factors in a phase III study of pazopanib in patients with advanced renal cell carcinoma.

Proffered Paper Session Genitourinary Malignancies

ECCO 15/34th ESMO Multidisciplinary Congress

September 22, 2009

Berlin, Germany

431. Future Strategies in the Treatment of mRCC.

Satellite Symposium: Maximising patient outcomes with targeted agents in

mRCC: Current and future strategies

ECCO 15/34th ESMO Multidisciplinary Congress

September 22, 2009

Berlin, Germany

432. Moderator in Invited Abstracts Session

Kidney Cancer Symposium

September 26, 2009

Chicago

433. Treatment of Castration Refractory Prostate Cancer: State of the Art and

Future Strategies

AIOM (Italian Association of Medical Oncology)

October 10, 2009

Milan, Italy

434. Drugs in the Pipeline

New Drug Developments in Advanced Prostate Cancer

EORTC (European Organization for Research and Treatment of Cancer)

Genitourinary Autumn Meeting

October 15, 2009 London, Great Britain

435. Novel Agents in Renal Cell Carcinoma

State of the Art in Urologic Oncology

Visiting Professor

October 24, 2009

Heidelberg, Germany

436. Treatment of Castration Resistant Prostate Cancer

State of the Art in Urologic Oncology

Visiting Professor

October 24, 2009

Heidelberg, Germany

437. Challenging Cases in Bladder Cancer

Societé Internationale d'Urologie (SIU)

November 2, 2009

Shanghai, China

438. Plenary session on Testis Cancer

Societé Internationale d'Urologie (SIU)

Chemotherapy in the Treatment of Testicular Cancer

November 4, 2009

Shanghai, China

439. Targeted Therapy in the Treatment of Prostate Cancer

Russian Cancer Congress

November 18, 2009

Moscow, Russia

440. Genitourinary Cases

Grandangolo 2009

December 1, 2009

Genoa, Italy

441. Prostate Cancer: Systemic Chemotherapy & New Experimental Approaches

International Congress on Anticancer Treatment (ICACT)

February 2, 2010

Paris, France

442. Molecular Targeted Therapy for Advanced Renal Cell Carcinoma

International Congress on Anticancer Treatment (ICACT)

February 3, 2010

Paris, France

443. Novel Approaches to Advanced Castration Resistant Prostate Cancer

International Congress on Anticancer Treatment (ICACT)

Presidential Symposium

February 3, 2010

Paris, France

444. New Treatment Modalities for Prostate Cancer - What Have We Learned and

What are The Opportunities?

Interactive Genitourinary Cancer Conference (IGUCC)

February 25, 2010

Athens, Greece

445. Exploring Unmet Needs in mCRPC – What Does the Future Hold?

3rd World Congress on Controversies in Urology (CURy)

February 27, 2010

Athens, Greece

446. Managemnet of Patients with Advanced with Prostate Cancer

La Sapienza Univeristy

April 15, 2010

Rome, Italy

447. The Potential of Denosumab across the Prostate Cancer Continuum of Care

Congress of the European Association of Urology (EAU)

April 18, 2010

Barcelona, Spain

448. Medical Uro-Oncology - ESU Course 36

Chairman

European School of Urology

Congress of the European Association of Urology (EAU)

April 19, 2010

Barcelona, Spain

449. Small Molecules as Novel Anticancer Agents: "Smart Drugs"?

ESU Course 36

European School of Urology

Congress of the European Association of Urology (EAU)

April 19, 2010

Barcelona, Spain

450. Application of Chemotherapeutic Agents in Bladder Cancer

Course Chairman

European School of Urology

Congress of the European Association of Urology (EAU)

April 19, 2010

Barcelona, Spain

451. Current and Emerging Treatment Options for Patients with Advanced

Prostate Cancer

Congress of the European Association of Urology (EAU)

April 19, 2010

Barcelona, Spain

452. Clinical Research and Systemic Treatment in Castration Resistant

Prostate Cancer

Visiting Professor

Department of Urology

RWTH Aachen University

April 28, 2010

Aachen, Germany

453. Modern Treatment in Metastatic Renal Cell Cancer

Visiting Professor

Department of Urology

RWTH Aachen University

April 28, 2010

Aachen, Germany

454. Management of Side Effects

Congress Organizer and Moderator

Fifth European Internation Kidney Cancer Symposim

May 8, 2010

London, UK

455. Neoadjuvant and Adjuvant Chemotherapy

Swedish Bladder Cancer Meeting

May 20, 2010

Malmö, Sweden

456. New Drugs in Prostate Cancer

Regional Congress on Genito-Urinary Tumors

Italian Association Medical Oncology (AIOM)

May 28, 2010

Viterbo, Italy

457. Management of Kidney Cancer

Moderator

Regional Congress on Genito-Urinary Tumors -

Italian Association Medical Oncology (AIOM)

May 28, 2010

Viterbo, Italy

458. Is Systemic Therapy Impacting Progress in Urothelial Cancer?

Oral Abstract Session Genitourinary Cancer

46th Annual Meeting of the American Society of Clinical Oncology (ASCO)

June 8, 2010

Chicago

459. Novel Treatments in Kidney Cancer

Challenges in Laparoscopy & Robotics 2010

June 10, 2010

Rome, Italy

460. What's new Behind the Corner? New Tretament Options in the Arena:

Pazopanib

4th Post ASCO Meeting on Advanced Kidney Cancer

June 19, 2010

Arrezzo, Italy

461. My favorite Treatment Option: Drug Combination or Sequence Moderator and discussant 4th Post ASCO Meeting on Advanced Kidney Cancer June 19, 2010 Arrezzo, Italy

462. High Risk Prostate Cancer – a Model for an Integrated Approach National Congress of the Italian Society of Oncologic Urology (SIUrO) June 24, 2010 Rome, Italy

463. The Future of Renal Cell Carcioma RCC Renal Cancer Conference September 17, 2010 Rome, Italy

464. What's on the Horizon?

Systemic Treatment in Bladder Cancer
EORTC Bladder Cancer Symposium
September 23, 2010
Amsterdam, The Netherlands

465. Novel Targeted Agents for Kidney Cancer Advanced Course on Urologic Oncology: Kidney, Bladder and Prostate September 30, 2010 Rome, Italy

466. Neo-adjuvant and Adjuvant Chemotherapy in Bladder Cancer Advanced Course on Urologic Oncology: Kidney, Bladder and Prostate September 30, 2010 Rome, Italy

467. Castration Resistant Prostate Cancer Advanced Course on Urologic Oncology: Kidney, Bladder and Prostate October 1, 2010 Rome, Italy

468. The new TKI: How Do You Integrate Pazopanib into the Treatment Paradigm of mRCC?

Satellite Symposium 35th Congress of the European Society for Medical Oncology (ESMO) October 10, 2010 Milan

469. Phase III Trial of Pazopanib in Advanced Renal Cell Carcinoma: Final Overall Survival Results

Proffered Paper session on Genitourinary Tumors

35th Congress of the European Society for Medical Oncology (ESMO)

October 11, 2010

Milan

470. Abiraterone Acetate vs Placebo after Docetaxel Chemotherapy in Metastatic CRPC

Presidential Symposium

35th Congress of the European Society for Medical Oncology (ESMO)

October 11, 2010

Milan

471. Novel Targeted Agents in the Treatment of Advanced Kidney Cancer Annual Meeting of the Japan Society of Clinical Oncology (JSCO)
October 29, 2010
Kyoto, Japan

472. Inhibition of Angiogenesis in the Management of RCC: What's the Current Status?

Breast and Renal Cell Carcinomas: Improving Outcomes by Targeting Shared Signalling Pathways

Annual Meeting of the Japan Society of Clinical Oncology (JSCO)

October 29, 2010

Kyoto, Japan

473. Novel Therapies in the Treatment of Castration Resistant Prostate Cancer ASCO-JSCO Joint Symposium

Annual Meeting of the Japan Society of Clinical Oncology (JSCO)

October 30, 2010

Kyoto, Japan

474. RCC:Beyond First Line Treatment: Considerations and Perspectives

AIOM (Italian Society of Medical Oncology) November 5, 2010 Rome, Italy

475. Tumori dell'Apparato Uro-Genitale: What's new?

Education Session

AIOM (Italian Society of Medical Oncology)

November 7, 2010

Rome, Italy

476. Medical Advances in Renal Cancer

National Cancer Research Institute Cancer Conference

November 10, 2010

Liverpool, England

477. Recent Addings to the Armamentarium in the First Line Setting: Pazopanib and Advanced Clear Cell Cancer

SOGUG (Spanish Oncologic Genitourinary Group) Scientific Meeting

November 20, 2010

Madrid, Spain

478. Chemotherapy and Targeted Therapies. News in Bladder and Prostate Tumors.

Meet the Professor

November 30, 2010

Vienna, Austria

479. Bladder Cancer 2010

Grandangolo 2010

December 16, 2010

Genoa, Italy

480. Renal Cell Carcinoma: A Glance to Future

Expert Dialogues: Optimizing Renal Cell Carcinoma Treatment

January 28, 2011

Paris, France

481. Treatment of High-risk Patients with Advanced Prostate Cancer Using a Multidisciplinary Approach

Satellite Symposium. A Multidisciplinary Treatment Team Approach to Metastatic Hormone-Refractory Prostate Cancer

4th World Congress on Controversies in Urology (CURy)

January 28, 2011

Paris, France

482. Selecting Targeted Agents for the Treatment of Advanced RCC

Urologists, RCC & Targeted Agents: Applying Clinical Evidence to Clinical Practice

4th World Congress on Controversies in Urology (CURy)

January 29, 2011

Paris, France

483. Novel Therapeutics in RCC

Genito-Urinary Session 1

22nd International Congress on Anticancer Treatment (ICACT)

February 1, 2011

Paris, France

484. Castration Resistant Prostate Cancer – Where Are We Now?

Genito-Urinary Session 2

22nd International Congress on Anticancer Treatment (ICACT)

February 3, 2011

Paris. France

485. Castration Resistant Prostate Cancer – Where Are We Now?

Presidential Session

22nd International Congress on Anticancer Treatment (ICACT)

February 3, 2011

Paris, France

486. Medical Therapy in Renal Cancer

4th National Course on Geriatric Oncology

Highlights in Cancer Treatment of the Elderly

February 8, 2011

Rome

487. Promising New Agents in Development for Advanced GU

SAGE Genitourinary Cancers Meeting

February 16, 2011

Orlando, USA

488. Association of Genetic Markers in Angiogenesis- or Exposure-related Genes with Overall Survival in Pazopanib (P) Treated Patients (Pts) with Advanced Renal Cell Carcinoma

Oral Abstract Session on Renal Cancer

The Genitourinary Cancers Symposium

February 19, 2011

Orlando, USA

489. Educational Overview: New Targets and Drugs in Prostate Cancer Plenary Session 1. Targeting the androgen axis in prostate cancer.

International Symposium on Targeted Anticancer Therapies

March 8, 2011

Paris, France

490. Another Anti-VEGF?

Round Table Discussion on Treatment of Relapse after Failure of First-line Anti-VEGF Therapy.

5th Postgraduate Seminar on Urological Cancer

March 11, 2011

Athens, Greece

491. State of the Art Treatment in 1st Line RCC

Scientific Symposium

5th Postgraduate Seminar on Urological Cancer

March 12, 2011

Athens, Greece

492. Chapter 9: Metastatic Disease

ICUD-EAU International Consultation on Bladder Cancer

26th Annual Congress of the European Association of Urology (EAU)

March 18, 2011

Vienna, Austria

493. Emerging Targeted Therapies for Advanced Prostate Cancer

Scientific Symposium

26th Annual Congress of the European Association of Urology (EAU)

March 19, 2011

Vienna, Austria

494. Application of Novel Hormonal Strategies in Prostate Cancer

ESU Course 36

26th Annual Congress of the European Association of Urology (EAU)

March 21, 2011

Vienna, Austria

495. Small Molecules as Novel Anticancer Agents "Smart Drugs" in Renal Cancer

ESU Course 36

26th Annual Congress of the European Association of Urology (EAU)

March 21, 2011

Vienna, Austria

496. Androgen Biosynthesis Inhibitors: Clinical Data and Practical Management in

Castrate-Resistant Prostate Cancer

Scientific Symposium

26th Annual Congress of the European Association of Urology (EAU)

March 21, 2011

Vienna, Austria

497. Role of Circulating Tumor Cells in Predicting Survival in Men with Castration

Resistant Disease

Models to Predict Prognosis in Advanced Disease

MSKCC/ESO 2nd Interdisciplinary Conference

Prostate Cancer: Predictive Models for Decision Making

April 8, 2011

New York, USA

498. New Treatment Options. What's New Around the Corner?

13th Course on Advances in Urological Oncology

Focus on Renal Cancer

April 30, 2011

Erice, Italy

499. Picking the Optimal Treatment for Patients with Metastatic Hormone Refractory

Prostate Cancer

Meet the Professor Seminar

European Institute of Oncology

May 4, 2011

Milan, Italy

500. New TKIs

New Agents in Renal Cell Carcinoma

Sixth European International Kidney Cancer Symposium

May 6, 2011

Warsaw, Poland

501. Clinical Application of Treatment Guidelines: Newly Diagnosed Advanced RCC

Navigating through the Advanced RCC Treatment Landscape: An Evidence-

Based Treatment Approach

Sixth European International Kidney Cancer Symposium

May 6, 2011

Warsaw, Poland

502. New Treatment Options in Prostate Cancer. What's New Around the Corner?

2nd Interdisciplinary Conference "Prostate Cancer": Predictive Models for Decision Making.

National Congress of the Italian Society of Oncologic Urology (SIUrO)

June 22, 2011

Naples, Italy

503. New Treatments for Cancer

Moderator

Sixth Annual Scientific Conference of the Istituto Toscano Tumori (ITT)

July 1, 2011

Carmignano, Italy

504. Current Questions in Clinical Research for Prostate Cancer

Brainstorming Conference about the Research in Prostate Cancer

September 17, 2011

Bellinzona, Switzerland

505. Androgen Biosynthesis Inhibitors: Clinical Data and Patient Management

Evolving Treatment Options in Castration-resistant Prostate Cancer 16th ECCO – 36th ESMO Multidisciplinary Cancer Congress September 23, 2011 Stockholm, Sweden

506. Novel Treatments for Castration-resistant Prostate Cancer

Educational Symposium on Medical Treatment of Metastatic Prostate Cancer 16th ECCO – 36th ESMO Multidisciplinary Cancer Congress September 26, 2011

Stockholm, Sweden

507. More Than Just Hormones: Highways and Byways in Castration-resistant Prostate Cancer

Junctions, Flyovers and Crossroads: Mapping the Intersections in Targeted Cancer Therapy

16th ECCO – 36th ESMO Multidisciplinary Cancer Congress

September 26, 2011

Stockholm, Sweden

508. The Combination of Multi-modality Treatment is the Best Approach for the Treatment of High-risk Prostate Cancer

Oxford Union Style Debate

16th ECCO – 36th ESMO Multidisciplinary Cancer Congress

September 26, 2011

Stockholm, Sweden

509. State of the Art and Future in the Treatment of Renal Cancer

Therapeutic Integration in Metastatic Renal Cell Carcinoma

Update in Renal Cancer: What's New in 2011

October 6, 2011

Rome, Italy

510. State-of-the-art Lecture: Update on Systemic Treatment in Metastasized Disease Session 4: Renal Cell Cancer

The 3rd European Multidisciplinary Meeting on Urological Cancers (EMUC) November 4, 2011

Barcelona, Spain

511. Overview in the Treatment of Metastatic Renal Cell Carcinoma

Symposium on Metastatic Renal Cell Carcinoma: Scientific Evidence and Clinical Practice

XIIIth National Congress of the Italian Association of Medical Oncology (AIOM)

November 5, 2011

Bologna, Italy

512. Therapeutic Algorithm in Advanced Renal Carcinoma

Third Line Therapy in Renal Cell Carcinoma

January 18, 2012

Rome, Italy

513. Current Status of Neo-adjuvant and Adjuvant Chemotherapy in Muscle Invasive Bladder Cancer

Joint ESOU, EORTC, ESUR, Pathology Session.

27th Annual Congress of the European Association of Urology (EAU)

March 25, 2012

Paris, France

514. Advanced Urothelial Carcinoma

Co-Chair Poster Session 72

27th Annual Congress of the European Association of Urology (EAU)

March 27, 2012

Paris, France

515. Back to the Future with Hormonal Therapy for CRPC

Co-Chair Satellite Symposium

27th Annual Congress of the European Association of Urology (EAU)

March 27, 2012

Paris, France

516. What are Upcoming Agents, Concepts and Ideas?

Systemic Treatment in Kidney Cancer at a Glance

Expanding Circles in Supporting Kidney Cancer

March 12, 2012

Rome, Italy

517. Targeted Therapies and the Long-term Treatment of mRCC

European Kidney Cancer – Patient Advocates Advisory Board

March 14, 2012 Brussels, Belgium

518. New Drugs for Patients with CRPC

Session: Medical Management of Uro-Oncology Should be Managed by Urologists

5th EAU Leading Lights in Urology

March 29, 2012

Madrid, Spain

519. Second-line Therapy after Initial TKI Failure: Weighing the Evidence

3rd Annual Conference of renal cancer Experts (CORE)

April 20, 2012

Munich, Germany

520. Science Session Chairman

European Kidney Cancer Association Symposium

May 4, 2012

Vienna, Austria

521. Which Treatment after Docetaxel for Hormone-Resistant Prostate Cancer?

2nd International Conference "Translational Research in Oncology: A New Approach to Personalized Medicine"

May 10, 2012

Forlì, Italy

522. Novel Therapies for the Treatment of Castration Resistant Prostate Cancer

State of the Art Lecture

Cancer Grand Rounds

Comprehensive Cancer Center in Vienna

May 16, 2012

Vienna, Austria

523. Renal Cell Carcinoma Biology and Targeted Therapies

European Network for Cancer Research in Children

Workshop on Renal Tumors Biology Driven Drug development

Policlinico Univeritario "A. Gemelli"

June 9, 2012

Rome, Italy

524. Chemotherapy: Why Neoadjuvant?

Multidiscliplinary Discussion: Locally Advanced and Metastatic Bladder Cancer XXII Annual Meeting of the Italian Society of Oncologic Urology (SIUrO)

June 13, 2012

Bologna, Italy

525. Delivering High-Quality Cancer Care in an Age of Austerity

ESO Panel Discussion

Can Europe Cope with the Rising Burden of Cancer?

Event Organized by the Italian Ministry of Health

June 19, 2012

Rome, Italy

526. Recent Advances in Hormone Relapsed Prostate Cancer

The Bristish Association of Urological Surgeons (BAUS) Annual Meeting

June 27, 2012

Glasgow, UK

527. Bladder Cancer Case Conference. Panel Discussion

The Bristish Association of Urological Surgeons (BAUS) Annual Meeting

June 27, 2012

Glasgow, UK

528. Primary, Secondary, and Quality-of-life Endpoint Results from the Phase 3

AFFIRM Study of MDV3100, an Androgen Receptor Signalling Inhibitor

Poster & Video Award Session

Global Congress on Prostate Cancer

June 30, 2012

Brussels, Belgium

529. Recent Advances in the Treatment of Castration Resistant Prostate Cancer

Columbia University

Department of Hematology/Oncology

September 5, 2012

New York, New York

530. Recent Advances in the Treatment of Castration Resistant Prostate Cancer

The Treatment of Genitourinary Tumors

September 18, 2012 Milan, Italy

531. Neoadjuvant Chemotherapy in Bladder Cancer

European Association of Urology (EAU) /Italian Association of Urology (AURO)

National Congress of the Italian Association of Urology (AURO)

September 21, 2012

Genoa, Italy

532. Recent Advances in Hormone Relapsed Prostate Cancer

National Congress of the Italian Association of Urology (AURO)

September 21, 2012

Genoa, Italy

533. Novel Hormonal Therapy for Castration-Resistant Prostate Cancer

The Current Management of Castrate-Resistant Prostate Cancer (CRPC)

Educational Session

European Society of Medical Oncology Annual Meeting (ESMO)

September 29, 2012

Vienna, Austria

534. Rationale and Results of the AFFIRM and PREVAIL Studies of Enzalutamide (MDV3100) an Androgen Receptor Signaling Inhibitor

Meet the Expert Session

European Society of Medical Oncology Annual Meeting (ESMO)

September 30, 2012

Vienna, Austria

535. Addressing Unmet Needs in Metastatic Castration Resistant Prostate Cancer

Cabozantinib (XL184) Prostate Cancer Clinical Trial Recruitment Symposium

European Society of Medical Oncology Annual Meeting (ESMO)

September 30, 2012

Vienna, Austria

536. Results of the COMPARZ Trial in Patients with Metatastic Renal Cell Carcinoma Around the Patient: Pazopanib and Lapatinib in Oncology

Thound the Tuttent: Tuzopumo una Zapun

October 12, 2012

Verona, Italy

537. Targeted Therapies: State of the Art and Future Perspectives

Partial Nephrectomy and New Technology

October 19, 2012

Rome, Italy

538. What are the New Developments in mRCC?

Expert Dialogues: Optimising Treatment of Metastatic Renal Cell Carcinoma

October 26, 2012

London, UK

539. Lost in Translational Medicine: Biomarkers

Expert Dialogues: Optimising Treatment of Metastatic Renal Cell Carcinoma

October 27, 2012

London, UK

540. Primary, Secondary, and Quality-Of-Life Endpoint Results from the Phase 3 Affirm Study of Enzalutamide (MDV3100), an Androgen Receptor Signaling Inhibitor

Genitourinary Tumors Session

Annual Meeting of the Italian Association of Medical Oncology (AIOM)

October 28, 2012

Rome, Italy

541. Future Outlook for Patients with mRCC

Annual Meeting of the Italian Association of Medical Oncology (AIOM)

October 29, 2012

Rome, Italy

542. Medical Oncologist: Medical Treatment in the Non-Metastatic CRPC Setting, Where Do We Stand?

Multimodality Treatment of Early CRPC

Embracing Excellence in Prostate, Bladder and Kidney Cancer (EMUC)

4th European Multidisciplinary Meeting on Urological Cancers

November 16, 2012

Barcelona, Spain

543. Management of Renal Cell Carcinoma

University "La Sapienza"

November 21, 2012 Rome, Italy

544. Hot Topics in GenitoUrinary Oncology

Hormonal Therapy in Castration Resistant Prostate Cancer

Milan National Cancer Institute (IST)

November 29, 2012

Rome, Italy

545. Management of Castration Resistant Prostate Cancer

Tumor of the Kidney and of the Prostate

January 17, 2013

Rome, Italy

546. Neo-Adjuvant Chemotherapy for Muscle Invasive Bladder Cancer

10th Meeting of the EAU Section of Oncological Urology (ESOU)

January 20, 2013

Rome, Italy

547. Prostate Cancer: The Clinical Trialist's Perspective

Translations in Urologic Oncology

January 25, 2013

Heidelberg, Germany

548. New and Emerging Post-Chemotherapy Castration Resistant Prostate Cancer

Treatments: Clinical experience

European Association of Urology (EAU)

March 16, 2013

Milan, Italy

549. Neo. Adjuvant Chemotherapy for Muscle Invasive Bladder Cancer

Urological Society of Australia and New Zealand (USANZ 2013)

66th Annual Scientific Meeting

April 14, 2013

Melbourne, Australia

550. Second Line Anti-Androgen Therapy and Beyond for Advanced Prostate Cancer

Urological Socity of Australia and New Zealand (USANZ 2013)

66th Annual Scientific Meeting

April 15, 1013 Melbourne, Australia

551. Management of Castration Resistant Prostate Cancer

Urological Society of Australia and New Zealand (USANZ 2013)

66th Annual Scientific Meeting

Melbourne, Australia

April 16, 2013

552. Medical Therapy of Renal Cell Carcinoma

Urological Socity of Australia and New Zealand (USANZ 2013)

66th Annual Scientific Meeting

Melbourne, Australia

April 16, 2013

553. Xp11.2 Translocation/TFE3 Fusion Renal Cell Carcinoma

8th International Kidney Cancer Association Symposium

May 4, 2013

Budapest, Hungary

554. Overcoming Resistance in the Treatment of Patients with Renal and Prostate Cancers

Adapting Molecolar Biology in Clinical Practice

May 10, 2013

Rome, Italy

555. Treatment of Castration Resistant Prostate Cancer: Novel and Future Hormonal and Chemotherapic Strategies

Innovation and Integration in Oncology: Prostate Cancer and Locally Advanced Non Small Cell Lung Cancer

May 17, 2013

Rome, Italy

556. Novel Therapies in the Management of Castration Resistant Prostate Cancer

Treatment of Prostate and Breast Cancer: What Have We Learned and Future Therapies.

May 25, 2013

Rome, Italy

557. Novel Therapies for Prostate Cancer

Challenges in Laparoscopy & Robotics

10th International Congress

June 8, 2013

Beijing, China

558. Prevention of Lung Cancer

Moderator

Forlanini Hospital, Aula Magna

June 26, 2013

Rome, Italy

559. Design of Phase III Trial 10TASQ10

Advisory Board on Management of Castration Resistant Prostate Cancer

June 27, 2013

Paris, France

560. Androgen Biosynthesis Inhibition

Prostate Cancer Therapeutic Area Steering Committee Meeting

June 28, 2013

Amsterdam, The Netherlands

561. Micro RNA and Cancer

Moderator

Eighth Annual Scientific Conference Institut of Oncology Tuscany

July 5, 2013

Cortona, Italy

562. Opening Session: Biological Basis of Personalised Cancer Therapy

Panel Member

European Society of Medical Oncology Annual Meeting (ESMO)

September 28, 2013

563. Keynote Lecture: The Mouse Hospital and the Co-Clinical Trial Project Chair

European Society of Medical Oncology Annual Meeting (ESMO)

September 28, 2013

Amsterdam, The Netherlands

564. Scientific Symposium: New Challenges in mRCC: Identifying What is Worth Pursuing.

Co-Chair

European Society of Medical Oncology Annual Meeting (ESMO)

September 29, 2013

565. Presidential Session III: Best and Later Breaking Abstracts

Cora Chair

European Society of Medical Oncology Annual Meeting (ESMO)

September 30, 2013

Amsterdam, The Netherlands

566. Educational Symposium: Optimal Approach for Renal Cancer

Cora Chair

European Society of Medical Oncology Annual Meeting (ESMO)

September 30, 2013

Amsterdam, The Netherlands

567. Special Lecture Can Drug Approval Keep Pace With Translational Research in Cancer?

Chair

European Society of Medical Oncology Annual Meeting (ESMO)

September 30, 2013

Amsterdam, The Netherlands

568. Genitourinary Malignancies – Other

Teaching Lecture: Modern Management of Penile Cancer

European Society of Medical Oncology Annual Meeting (ESMO)

September 30, 2013

Amsterdam, The Netherlands

569. Genitourinary Malignancies – Prostate

Special Session: Castration Resistant Prostate Cancer: New Therapies

European Society of Medical Oncology Annual Meeting (ESMO)

September 30, 2013

Amsterdam, The Netherlands

570. Renal Cell Carcinoma

Therapeutic Integration with Target Treatments in Oncology. Medical School of Oncology

October 5, 2013

Rome, Italy

571. Metastatic Castration Resistant Prostate Cancer. Hot Topics: Treatment

Evaluation and Sequencing.

Panel Member

National Congress of the Italian Society of Medical Oncology (AIOM)

October 11, 2013

Milan, Italy

572. Genitourinary Tumors. Educational Session.

Moderator

National Congress of the Italian Society of Medical Oncology (AIOM)

October 11, 2013

Milan, Italy

573. Further Hormone Therapies in Abiraterone and Enzalutamide.

ESMO Preceptorship Programme - Prostate Cancer

Multidisciplinary Management, Standards of Care, Therapeutic Targets and Future Perspectives.

October 16, 2013

Berlin, Germany

574. Role of Standard Cytotoxic Chemotherapy, First and Second-Line.

ESMO Preceptorship Programme - Prostate Cancer

Multidisciplinary Management, Standards of Care, Therapeutic Targets and Future Perspectives.

October 17, 2013

Berlin, Germany

575. Management of mRCC: What Have We Achieved?

Expert Dialogues 2013: Optimising Clinical Practice for Improved Patient Outcomes.

November 8, 2013

Paris, France

576. Personalized Medicine: Can It be Achieved in mRCC?

Co-Chair

Expert Dialogues 2013: Optimising Clinical Practice for Improved Patient Outcomes.

November 9, 2013

Paris, France

577. Setting the Scene - Keynote Lecture in Prostate, Kidney and Bladder Cancer.

Co-Chair

5th European Multidiscliplinary Meeting on Urological Cancers

November 15, 2013

Marseille, France

578. Targeting Androgen Signaling Beyond Castration Resistance

Rapidly Evolving Options in the Management of Castration Resistant Prostate

Cancer: Practical Guidance for Clinicians

5th European Multidiscliplinary Meeting on Urological Cancers

November 16, 2013

Marseille, France

579. New Targets in the Treatment of Prostate Cancer

Personalization and Strategy in the Treatment of Prostate Cancer. National Meeting of the Italian Society of Medical Oncology (AIOM)

November 23, 2013

Naples, Italy

560. Further Hormonal Therapies Including Abiraterone and Enzalutamide

ESMO Preceptorship Programme - Prostate Cancer

November 28, 2013

Lugano, Switzerland

561. Alternative and Second Line Chemotherapy in the

Management of mCRPC

ESMO Preceptorship Programme - Prostate Cancer

November 29, 2013

Lugano, Switzerland

562. Inhibition of the Androgen Receptor Complex

Treatment Options in Castration Resistant Prostate Cancer

1. Symposium on Castration Resistant Prostate Cancer

December 7, 2013 Düsseldorf, Germany

563. Medical Treatment in the Non-Metastatic M0 CRPC Setting:

Where Do We Stand?

MDV3100-14 European Investigators' Meeting: PROSPER

January 11, 2014

Barcelona, Spain

564. Optimal Sequence of Treatment for Metastatic Prostate Cancer

ISCORT: The Annual Meeting of the Israeli Society for Clinical Oncology and Radiation Therapy

January 14, 2014

Eilat, Israel

565. Treatment of Advanced, Metastatic Urothelial Cancer

ISCORT: The Annual Meeting of the Israeli Society for Clinical Oncology and Radiation Therapy

January 15, 2014

Eilat, Israel

566. Novel Therapies in Metastatic Renal Cell Cancer: Second Line and Beyond.

ISCORT: The Annual Meeting of the Israeli Society for Clinical Oncology and Radiation Therapy

January 17, 2014

Eilat, Israel

567. State of the Art Treatment in mCRPC with Androgen Targeted Therapies

Hormonal Therapies Blocking the Androgen Pathway

The Prostate Cancer Debates 2014

January 24, 2014

Rome, Italy

568. Future Perspectives in Renal Cancer

SPECIAL. CA.RE. 2014

SPECIALists in REnal Cancer

February 20, 2014

Florence, Italy

569. International Workshop on New Frontiers of radiation Oncology: Re Irradiation Treatment after Failure of Hormonal Therapy in Patients with Advanced Prostate Cancer

February 28, 2014

Rome, Italy

570. Società Romana di Chiurgia

Non Colorectal Hepatic Metastasis

Tumors of Genitorunary Tract, Orientaion, and Treatment of Hepatic Metastases

La Sapienza University

Department of Surgical Science

March 5, 2014

Rome, Italy

(919)-802-6395 darrickfu@gmail.com

SUMMARY

Executive with 20+ years experience in the biopharmaceutical industry, specializing in the management of complex initiatives, product development projects, and research and development alliances. Unique insight on the necessary role of all critical players in the healthcare enterprise gained through multisector work experience. Strong understanding of broad pharmaceutical R&D issues and innovative new trends as well as all key technical disciplines required for new product development. Expertise in integrating multiple and disparate issues into overall project strategy and building consensus/buy-in, plans, and budgets as well as managing in a changing technical, resource, or political environment. Strong communication and interpersonal skills. Areas of expertise:

- Leadership and implementation of complex strategic initiatives across multiple stakeholder interests priority constraints.
- Leadership of multi-disciplinary teams in a matrix environment across international, cross-cultural, cross-sector, and/or multi-company 'boundaries'
- Evaluation and management of projects within an uncertain environment of technical and/or resource changes
- Clinical and Preclinical and development of new products, particularly biological and vaccines which meet commercial and regulatory needs
- Evaluation of technical, clinical, regulatory, and business risks impacting projects and structuring development strategies to manage risks
- Forecasting and managing of internal and/or external resources in line with project needs
- Construction of partnerships considering the intellectual property, legal, commercial, and financial interests, as well as development goals of each party.
- Practical knowledge of challenges facing the US healthcare enterprise from medical practitioners through the innovative medical/diagnostic industry.

PROFESSIONAL EXPERIENCE

Pralin Management LLC, Raleigh NC

President & Principle Consultant

12/2010-Present

Projects:

- American Institute of Healthcare & Fitness: Chairman Marketing and Community Involvement committee. Provide leadership to a committee healthcare and fitness business owners to codevelop and co-market their allied independent business as a superior combined product.
- The Dermatology Center of Raleigh PA. Provide strategic consulting and implementation services in areas of Business Development, Business Operations, Electronic Medical Record, and marketing.
- Hawaii Biotechnology Inc.: consulting on development and enabling technology licensing for a recombinant dengue vaccine.

Duke University Medical School, Durham NC

3/2008-11/2010

Chief Product Development Officer, Duke Human Vaccine Institute

Responsible for translating discovery research into early, proof of concept, human trials with particular emphasis on HIV/AIDS vaccine discovery. Worked through a novel consortium of academic, government, and non-profit entities that comprise the Center for HIV/AIDs Vaccine Immunology (CHAVI) and, in part, as virtual biotech organization.

Accomplishments:

- Implemented portfolio of non-human primate challenge studies to evaluate key emerging scientific concepts.
- Forged two collaborative research relationships with industry to access vaccine adjuvant technology
- Successfully prepared two inter-related NIH and Gates Foundation grants to fund a Phase I trial to validate whether in-silico antigen models are predictive of human immune response.

Pharmaceutical Research & Manufactures Association, Washington DC

2/2005-3/2008

Associate Vice President, Science & Regulatory Affairs

Led a major strategic initiative to help improve industrial R&D productivity across the pharmaceutical industry and speed acceptance of technical innovations and novel development tools. Developed, and implemented policy, projects, and other solutions to this problem collaboratively with industry R&D leadership, FDA leadership, NIH leadership and other stakeholders in the healthcare enterprise.

Accomplishments:

- Principle architect in establishing two major public-private-partnerships; 'The Biomarker Consortium' and the 'Observational Medical Outcomes Partnership'. Established common ground across companies and with other sectors enabling progress. Responsible for the development and negotiation of all aspects required in set-up of a new entity's operations and development of initial projects concepts.
- Successfully developed concepts for initial non-competitive biomarker projects; validation of FTG-PET as a marker for cancer outcomes and the use of Adiponectin as a marker of glycemic control as well as consensus across pharmaceutical industry, FDA, and research science (NIH).
- Developed agreement across industry on key areas of opportunity for pre-competitive effort that
 would improve drug development and ultimately the availability of new medicines. Organized
 and managed multiple technical teams to implement and pursue efforts in concert with FDA's
 critical path initiative.
- Managed multiple pan-industry technical teams to develop positions and successfully advocate for regulatory change with senior FDA management.

Development Consultant, Pinehurst NC

2002-2004

Provided solutions to product development, project management, business strategy, and clinical development, in the vaccine field. Clients included Program of Appropriate Technology in Health (PATH), GlaxoSmithKline Biologicals. Highlights include:

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Rotavirus Vaccine Program LLC, PATH: Developed consensus a collaborative clinical trial program of Merck's RotateqTM vaccine in developing countries between Merck, PATH, and other international health agencies including agreement on development strategy, study synopsis, and initial site targets.

GlaxoSmithKline Biologicals: Managed a clinical collaboration involving the US National Cancer Institute, a Costa Rican research foundation, and multiple CROs to implement a large Phase III efficacy study. Lead resolution of issues on development of clinical protocol, field procedures manuals, a data-management system, safety-reporting plan, monitoring/auditing plans, compliance with ICH/GCP and/or company SOPs, logistics plan and negotiation of agreements and budgets.

GlaxoSmithKline Biologicals

1993-2001

Director, Business Development, Rixensart Belgium

2000-2001

Supported development of strategy for new portfolio of chronic disease vaccines with objective and integrated analysis of commercial, technical, and business aspects. Valued investment opportunities in new disease areas. Responsible for managing in/out-licensing of all diagnostic related business.

Accomplishments

- Negotiated in-licensing of 2 new research technology platforms.
- Consolidated business strategy in allergy vaccine field and corresponding I.P. position and license agreements.
- Lead negotiations for in-licensing of several chronic disease vaccines and orchestrated performance technical and I.P. due diligence and preparation of terms.
- Oversaw the termination of a major license and development agreement involving the resolution of issues from R&D, corporate legal, patent legal, and finance.

Associate Director, Development Alliances, Bethesda MD

1998-1999

Established and led Washington DC based staff responsible for managing US R&D collaborations with government institutions, universities, biotech companies, and contract organizations. Maximized impact/value of relationships by ensuring development of asset/product in conformity with internal and external standards. Managed an extramural development budget of ~\$10 million / year. Evaluated multiple new vaccine in-licensing opportunities to make consolidated strategic, technical and development recommendations. Recommended solutions to issues on development strategy, resource management, and portfolio priorities as a member of the senior management development committee.

Accomplishments

- Lead SBB/Medimmune alliance on HPV vaccine to integrate strategic and overall planning and coordination between parties which resulted in initiation of Phase IIb feasibility studies within 2 years.
- Directed 3 extra-mural projects to accomplish preclinical-and Phase I development completely through contractors and collaborators. Negotiated agreements, budgets and managed collaborators.

Assistant Director, R&D Project Management, Rixensart Belgium

1996-1998

Created company-wide process for vaccine development which consolidated best practices and philosophies/strategies for new product development. Outlined generic network of activities and decision points, provided tools to enable improved planning, monitoring and management, and clarified roles and

DARRICK T. FU

responsibilities of players. Trained, developed, and managed 2 new project managers to provide development expertise and direction to project teams.

Accomplishments

- Developed a Vaccine Development handbook to provide functional guidance to project managers and team members. Served as reference source for training/coaching new managers.
- Directed extra-mural research program on Dengue vaccines which led to selection an in-licensing of a lead candidate.

Senior Project Manager, R&D Project Management, Rixensart Belgium

1993-1996

Managed 6 vaccine projects, including Lyme, Improved Flu, HIV, therapeutic-HBV, therapeutic-HPV, and cancer. Coordinated multi-disciplinary teams of 20+ people. Integrated marketing, technical, regulatory, and patent/legal issues into development strategy, preparation and implementation of plans, monitoring activities and progress, resolving issues, and reporting to senior management.

Accomplishments

- Lead Lymerix[™] Project Team from first administration to man through PLA submission to accomplished the development and licensure of a new recombinant biological within record time, beating a major competitor to market.
- Directed preclinical development teams to accomplish the submission of over 10 INDs/CTXs for new biologics.
- Led improved Flu project team to evaluate four candidate vaccines and reach key Go/No Go development decision points within two years.

SmithKline Beecham Pharmaceuticals

1989-1993

4 years additional project management experience in development of small molecules and biologics at all stages including Rx-OTC switch, across several therapeutic areas. Details and accomplishments available upon request.

EDUCATION

MBA, Finance, George Washington University, 1988
BS, Biochemistry/Molecular Biology, Carnegie-Mellon University, 1984
MS, Pharmaceutical Science, (Degree not completed), University Libre de Bruxelles, 1995 - 1996

PUBLICATIONS

CA Altar, D Amakye, D Bounos, J Bloom, G Clack, R Dean, V Devanarayan, **D Fu**, S Furlong, L Hinman, C Girman, C Lathia, L Lesko, S Madani, J Mayne, J Meyer, D Raunig, P Sager, SA Williams, P Wong and K Zerba. <u>A Prototypical Process for Creating Evidentiary</u>
<u>Standards for Biomarkers and Diagnostics</u>. Clinical Pharmacology & Therapeutics, Vol. 83, N.2: p.368-371 Feb 2008.

A.Chatterjee, P Corr, J. Evelhoch, **D. Fu**, R. Hargreaves, C. Jaffe, M. Klimas, G. Schmitz, L. Schwartz, 2005 IBM Imaging Biomarker Summit: <u>Engaging the Discussion on the Use of Imaging Biomarkers in</u> Pharma R&D, Medical Research, and Clinical Care. Health Industry Insights, June 2008

- C. Van Hoecke, **D. Fu**, D. De Grave, P. Voet, E. Lebacq. <u>Clinical and immunological assessment of a candidate Lyme disease vaccine in healthy adults: Effect of a booster dose at month 12</u>. Vaccine, 16(17): p1688-1692, 1998
- F. Meurice, D. Parenti, **D. Fu**, and D.S. Krause. <u>Specific Issues in the Design and Implementation of an Efficacy Trial for a Lyme Disease</u> Vaccine. Clinical Infectious Diseases, 1997; 25(suppl 1):s71-75.
- C. Van Hoecke, M. Comberbach, D. De Grave, P.Desmons, **D.Fu**, P.Hauser, E. Lebacq, Y. Lobet, and P.Voet. Evaluation of the safety, reactogenicity and immunogenicity of three recombinant outer surface protein (OspA) lyme vaccines in healthy adults. Vaccine, 14(17-18): p1620-1626, 1996

INVITED PRESENTATIONS

- "The Biomarker Consortium: A New Paradigm to Advance Medical Science", IBC 5th Annual Targeting Metabolic Syndrome Conference, Feb 26-28, 2007, Boston MA.
- "Collaborative Efforts under the Critical Path Initiative", Challenges and Practical Aspects of Assessing Clinical QT Prolongation / Proarrhythmia and Implications for the Critical Pathway, DIA workshop, May 8-9, 2006, Washington DC.
- "Public Private Partnerships for Biomarkers", American Institute for Medical & Biological Engineering, 15th Annual Event, March 2 2006, National Academy of Sciences, Washington DC.
- "FDA-NIH-PhRMA Biomarker Consortium", International Conference on Drug Development, February 14 2006, Austin TX.

Curriculum Vitae David Edward Weng, M.D., Ph.D.

-March 2014-

Professional Address: AAMC Oncology and Hematology

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(443) 510-1397 (cell) – (Preferred phone contact)

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Permanent Address: 9017 Spring Hill Ln

Chevy Chase, MD 20815 (301) 652-7370 (home) davidweng7@gmail.com

Personal: Born June 25, 1962 in Chicago, Illinois

Married with 5 children

U.S. Citizen

Professional Summary:

Dr. David E. Weng is a medical oncologist with Anne Arundel Medical Center, joining the medical staff in March, 2014. In addition to clinical responsibilities for the care of patients with hematologic and solid tumor malignancies, he is also involved with clinical trials, health care outcomes and quality management research.

He was previously the chief medical officer and senior vice president for TetraLogic Pharmaceuticals in Malvern, PA. At TetraLogic, Dr. Weng advanced the clinical development of birinapant, (novel small molecule in the class of Smac mimetic agents) from preclinical studies to phase 2 clinical studies for both solid and hematologic malignancies. In addition, he was primarily responsible for the development of external preclinical and clinical collaborations, and the building of company capabilities in clinical development, operations, regulatory affairs, and data management. At TetraLogic, he oversaw pharmacovigilance, and management of interactions with contract research organizations, key academic institutions and opinion leaders, in the US, Asia, and Europe. Dr. Weng contributed to strategic planning, corporate development, business development, translational studies, preclinical research, and communication with investors.

Dr. Weng joined the biotechnology industry as Director of Clinical Oncology Development at MedImmune, LLC in Gaithersburg, MD from 2006-09, in order to pursue career opportunities in drug development and business development for new health care approaches. During this time,

he oversaw clinical development in multiple areas of unmet need, requiring a breadth of knowledge of hematology and oncology, and ongoing discussion with key opinion leaders about current and emerging therapies for unmet needs. As part of MedImmune and the parent company AstraZeneca, he led multiple product development teams and collaborations with academic and industry partners for phase 1 clinical studies for both small molecules and biologics.

Before joining the biotechnology industry, Dr. Weng was a faculty member of the Department of Hematology and Medical Oncology and the Taussig Cancer Center at the Cleveland Clinic Foundation from 1998-2006. While at the Clinic, he was a clinical oncologist, seeing patients of all diagnoses and disease stages, with particular expertise in breast cancer. In addition, he contributed to institutional capabilities as director for the Hematology/Medical Oncology Fellowship Program, overseeing the recruitment and training of fellows to careers for both academic and community practice. Dr. Weng was also vice chairman of the Cleveland Clinic Institutional Review Board, overseeing review of new and ongoing programs of clinical research. He has been an advisor and investigator for development of new approaches including target selection, preclinical drug development, chemotherapy cytotoxic agents, hormonal therapies, small molecule agents, monoclonal antibodies, cellular therapies, diagnostics, and imaging. As an academic investigator, Dr. Weng has been involved with multiple biotechnology companies including Ribozyme Pharmaceuticals (now SIRNA), Immunicon (now Veridex), American Bioscience, Inc (now Abraxis Bioscience), Advanced BioPhotonics, Inc., and Genomic Health, Inc. Dr. Weng has been a key opinion leader member of advisory panels and speaker bureaus for Genentech, Sanofi-Aventis, AstraZeneca, Abraxis Biosciences, and Genomic Health Inc.

Dr. Weng has been involved as an investigator in over 30 oncology studies during his research career. Dr. Weng has over 60 peer-reviewed publications and abstracts in the fields of developmental biology, cancer biology, immunology, and clinical research.

Dr. Weng is board-certified by the ABIM in medical oncology and has expertise and clinical experience in the care of hematology and oncology patients. He earned his bachelor's degree in biochemical sciences from Harvard University and medical and doctorate degrees from the Johns Hopkins University School of Medicine. He completed his internal medicine residency training at the Johns Hopkins Hospital, followed by fellowship training in medical oncology at the National Cancer Institute. He continues to maintain active licenses for Federal DEA prescription privileges for controlled substances and state medical licensure in Maryland, Ohio, and California.

Personal Summary:

Dr. Weng was born in Chicago, IL and grew up in Rochester, MI with his parents and 2 younger brothers. He lives in Chevy Chase, MD with his wife and 5 children. When not occupied with family or work, he is an avid runner, looking for any chance to run trails in local parks.

Education:

- (1980-1984) A.B. Biochemical Sciences, Harvard University, Cambridge, MA.
- (1984-1992) M.D. Johns Hopkins Univ. School of Medicine, Baltimore, MD
- (1986-1992) Ph.D., Biochemistry, Cellular and Molecular Biology, -Johns Hopkins Univ. School of Medicine, Baltimore, MD
- (1992-1995) Internal Medicine Internship and Residency, Johns Hopkins Hospital, Department of Medicine, Baltimore, MD
- (1995-1998) Medical Oncology Fellowship -National Cancer Institute, Bethesda, MD

Professional Experience:

- (2014-present) Attending Physician of Medical Staff, Anne Arundel Medical Center
- (2012-14) Senior Vice President, TetraLogic Pharmaceuticals, Malvern, PA
- (2010-14) Chief Medical Officer, TetraLogic Pharmaceuticals, Malvern, PA
- (2009-10) Vice President, Clin Onc, TetraLogic Pharmaceuticals, Malvern, PA
- (2006-09) Director, Clinical Development, MedImmune, LLC, Gaithersburg, MD
- (2005-06) Acting Director, Breast Medical Genetics Clinic, Cleveland Clinic Foundation, Cleveland, OH
- (2004-06)- Director, Hematology and Medical Oncology Fellowship Program, Cleveland Clinic Foundation, Cleveland, OH.
- (1998-2006) Staff, Department of Hematology and Medical Oncology, Cleveland Clinic Foundation, Cleveland OH.
- (2001-06) Institutional Biosafety Committee, Cleveland Clinic Foundation. Cleveland, OH
- (2000-06) Institutional Review Board, Vice-Chairman, Cleveland Clinic Foundation, Cleveland OH.
- (2000-2006) Board of Trustees, Northern Ohio Breast Cancer Coalition, Brecksville, OH
- (1997-98) Clinic Attending, Breast Cancer Section, Medicine Branch, Division of Clinical Sciences, National Cancer Institute. Bethesda, MD.
- (1997-98) Protocol Study Chairman, Department of Experimental Transplantation and Immunology, Medicine Branch, Division of Clinical Sciences, National Cancer Institute. Bethesda, MD
- (1996-98) Kaiser Permanente Health Care Urgent Care Center, Kensington, Maryland
- (1995-98) U.S. Public Health Service Commissioned Corps, National Institutes of Health, Bethesda, MD
- (1996-98) Postdoctoral Research Dendritic Cell Biology and Tumor-mediated Immunosuppression, in the lab of Peter Cohen, M.D., National Cancer Institute. Bethesda, MD
- (1995-98) Medical Oncology Fellowship Medicine Branch, National Cancer Institute, Bethesda MD.
- (1992-95) Internal Medicine Residency -The Osler Medicine Service, Department of Medicine, Johns Hopkins Hospital. Baltimore,MD
- (1984-92) Ph.D. Thesis, "Analysis of Gene Expression During Mouse Early Development" in the lab of John D. Gearhart, Ph.D., Dept. of Physiology, Johns Hopkins University School of Medicine. Baltimore, MD.
- (1984) -Enzyme kinetics and steroid biochemistry research in the lab of Paul Talalay, M.D., Dept. of Pharmacology, Johns Hopkins University School of Medicine. Baltimore, MD
- (1982-84) Drosophila molecular genetics research in the lab of Welcome Bender, Ph.D.,

Pharmaceutical Industry Research Experience and Team Accomplishments

TetraLogic Pharmaceuticals (7/2009-2/2014)

TL32711 – SMAC Mimetic (Clinical Development Leader): Clinical leader to
develop a novel targeted anti-cancer therapeutic, with cross-functional team activities
to submit the FDA IND application to initiate first-in-human clinical studies.
Additional activities include development of preclinical research activities to support
the clinical development plan, development and implementation of biomarker
strategies for clinical use, business development for venture capital investment and
corporate partnering, development and implementation of clinical plans for
successful regulatory approval and commercial outcomes.

MedImmune Oncology (9/2006 – 7/2009)

- 1. MEDI-561 Hsp90 inhibitor (Project Development Team Leader): Team leader since inception of Hsp90 inhibitor program at MedImmune in Sep06, with management of MedImmune program development and collaboration/coordination with Infinity Pharmaceuticals across all functional areas of project development. Our PDT activities have led to a number of accomplishments, currently supporting our primary goals to develop successful registration efforts. Accomplishments include FDA IND approval in Nov 07, orphan drug designation approval in the US and EU, conduct of multiple Phase 1 and Phase 2 trials, first round SPA approval of a multinational Phase 3 registration effort.
- 2. MEDI-538 CD19 BiTE (Project Development Team Leader): Started as team member in Sep06. Led team effort to respond to FDA Clinical Hold of Sep06 of initial IND submission of Aug06, leading to FDA IND approval in Feb07. Led MedImmune PDT efforts in collaboration with co-development partner Micromet PDT. Assumed team leadership role to develop clinical development plans for PDC review in Feb07. Led team efforts to identify alternate formulations for MEDI-538 delivery. Transitioned my responsibilities to another member of MedImmune Oncology in May07 to devote greater efforts to MEDI-561 activities.
- MEDI-531 EphA2 monoclonal antibody (Project Development Team Leader):
 Onset of team member activities in Sep06, with involvement in evaluation of animal toxicology results that led to subsequent recommendation for program discontinuation.
- 4. **MEDI-543 EphA2 listeria vaccine** (Project Development Team member): Onset of team member activities in Dec06, with involvement in evaluation of nonclinical efficacy and current outside clinical activities of co-development partner. Subsequent efforts led to recommendation for program discontinuation
- 5. **MEDI-547 EphA2 monoclonal-drug conjugate** (Project Development Team Leader): Onset of team activities in Jun07, with involvement in evaluation of non-clinical data, selection of clinical candidate, development of IND enabling activities, and primary responsibility for formulating clinical development plans.

Accomplishments include FDA IND acceptance in Dec 08, Phase 1 clinical implementation in Aug 09, orphan drug designation in ovarian cancer in the US and EU, NCI selection of MEDI-547 as a program for CTEP co-development.

- 6. MEDI-565 CEA BiTE (Project Development Team Leader): Onset of team activities in Oct06, with involvement in evaluation of nonclinical data, selection of clinical candidate, development of IND enabling activities and primary responsibility for formulating clinical development plans. Accomplishments include FDA agreement of the proposed Phase 1 trial design in pre-IND Type B meetings.
- 7. **MEDI-EphA2 BiTE EphA2 BiTE** (Project Development Team member): Onset of team member activities in Oct06, with involvement in evaluation of nonclinical data, selection of clinical candidate, and formulating the clinical development plans.
- 8. **MEDI-3617 Ang2 monoclonal antibody** (Product Development Team member) Onset of team activities in Oct08, with involvement in evaluation of nonclinical data,, development of IND enabling activities and primary responsibility for formulating clinical development plans.
- 9. **Business Development** (Clinical Oncology Representative): Team member activities, with evaluation of small molecules tyrosine kinase inhibitors, biologics, cytotoxic agents, immunomodulatory agents, diagnostic, and device opportunities.
- 10. **Target Selection Committee** (Clinical Oncology Representative): Team member with evaluation of proposed targets for initial drug discovery efforts; cross-functional assessment of targets suitable for biological therapeutics approach.
- 11. **Company Activities:** Participation in activities in support of Company-wide projects and priorities, including internal committees for human resources and integration activities with AstraZeneca.

12. Professional Training Activities

- a. Phacilitate Oncology Leaders' Forum 2007 Boston, MA Nov07
- PERI Biologics Drug Development: An Integrated Overview of Manufacturing, Nonclinical, Clinical, and Regulatory Requirements. Washington DC, Apr08
- c. 3rd Annual Trial Design Innovation: Accelerating Safer Drug, Device and Biologic Development with Adaptive Trials. Washington DC, Jul08.
- d. Industry Perspective on Clinical Safety and Pharmacovigilance, Gaithesburg, MD Nov08.
- e. Martell Communications, February 2012 Executive communications Training.

13. Regulatory Agency Experience:

- a. Birinapant (TL32711) Ongoing clinical research program, FDA INDs of September 2009, February 2013, August 2013
- b. MEDI-538: Resolution of Clinical Hold to initial IND filing in Aug06, with subsequent Successful IND application Feb07.
- c. MEDI-561: Approval of FDA orphan drug application for GIST in Sept07

- d. MEDI-561: Approval of EMEA orphan drug application for GIST in Oct07
- e. MEDI-561: Successful IND application for IPI-504 in Oct07
- f. MEDI-561: End-of Phase 1 FDA meeting Dec07
- g. MEDI-561: FDA SPA submission for GIST Phase 3 trial proposal Feb08, approval Apr08
- h. MEDI-561: EMEA SA submission for GIST Phase 3 trial proposal Feb08,approval May08
- i. MEDI-561: IMPD submission for HER2+ Breast Cancer Phase 2 trial proposal Feb08
- j. MEDI-547: FDA Pre-IND meeting Feb08
- k. MEDI-547: Successful IND application Dec08.
- 1. MEDI-547 EMEA Orphan Drug Application
- m. MEDI-547 FDA Orphan Drug Application
- n. MEDI-565 FDA Type B Pre-IND Meeting

Clinical Research Experience:

- A Pilot Study of Paclitaxel/Cyclophosphamide and High Dose Melphalan/Etoposide with Autologous Progenitor Cell Transplantation for the Treatment of Metastatic and High Risk Breast Cancer. 1997-98.
- Pilot Study of Autologous T Cells and/or IL-2 for the Enhancement of Immune Reconstitution after Dose-Intensive Chemotherapy for Breast Cancer. 1997-98
- 3. IRB 2884 Phase 2 Trial of Adoptive Immunotherapy of Advanced Renal Carcinoma and Melanoma with Tumor-Primed, Ex Vivo Activated T Lymphocytes. 1998-present. Co-Investigator. Cleveland Clinic Foundation. Cleveland, OH.
- 4. IRB 3809 Angiozyme[™]:A safety and biological efficacy study of multidose Angiozyme[™] in patients with refractory solid tumors clinical and biological modulatory effects following daily subcutaneous administration. 1999-present.
- IRB 3608 A Phase 2 Trial of Neoadjuvant Paclitaxel, Cisplatin and Concurrent Accelerated Fractionation Radiation followed by Adoptive Immunotherapy with Tumor-Primed Ex-vivo Activated T-Lymphocytes for Stage III Non-small Cell Lung Cancer. 2000.
- 6. Southwest Oncology Group -participating investigator. IRB 3884 Generation of dendritic cells from monocytes obtained from peripheral blood mononuclear cells (PBMC) leukapheresis samples of normal adult volunteers and adult patients with cancer.
- 7. IRB 4050 A phase II, open label, multi-center trial of ANGIOZYME, a ribozyme inhibitor of VEGFR-1 in patients with metastatic breast cancer who have failed at least one course of chemotherapy for metastatic disease.
- 8. IRB 4404 A phase 1/2 study of active immunotherapy of stage III/IV melanoma with chimeric hybrids generated by electrofusion of autologous dendritic cells and allogeneic melanoma cell lines (CancerVax).
- 9. IRB 6000 Generation of Tumor Cell Lines from Adult Patients with Cancer, Co-investigator, Cleveland Clinic Foundation.
- 10. IRB 6292 Early Stage Breast Cancer Patients Treated with Conservation Surgery between 1975-1988.
- 11. IRB 6589 A Phase 2 Study of Intravenous Edotecarin (PHA-782615) in Patients with Anthracycline- and Taxane-Resistant Metastatic Breast Cancer.
- 12. IRB 6890 B-type natriuretic peptide as a potential marker for

- chemotherapy-induced cardiotoxicity in cancer patients receiving doxorubicin.
- 13. NIH CA77091-04, (Competitive Renewal 12/01/04 11/30/09) Telomeres, telomerase and chemotherapy: Bench to bedside.
- 14. Avon Foundation 2004 A Phase 1/2 Study of Suramin in Combination with Paclitaxel in Advanced (Stage IIIB or IV) Metastatic Breast Cancer. Co-investigator.
- 15. Cleveland Clinic Foundation Renal SPORE Grant Application 2004. Project 5: Metalloproteinases as an early detection marker in renal cell carcinoma.
- 16. IRB 7421- Phase 2 multicenter, open-label, non-randomized study of intravenous RPR 109881 q 3 weeks in patients with metastatic breast cancer progressing after therapy with anthracyclines, taxanes and capecitabine.
- 17. IRB 7518 A randomized, double-blind, placebo controlled study to evaluate AMG 162 in the treatment of bone loss in subjects undergoing aromatase inhibitor therapy for non-metastatic breast cancer.
- 18. IRB 7608 A phase 1/2 study of active immunotherapy of stage III and IV melanoma with chimeric hybrids of autologous dendritic cells and tumor cells generated by electrofusion.
- 19. IRB 7635 Identification and Validation of a Prognostic Signature for Local Recurrence in Early Stage Breast Cancer.
- 20. IRB 7687 Correlative Clinical Histories of Patients from the Breast Cancer Information System with Stored Tumor Tissue.
- 21. IRB 7961 Breast cancer in young women less than 40years: the Cleveland Clinic Experience. Principal investigator
- 22. IRB 7965 Dynamic infrared imaging to monitor response to primary systemic chemotherapy for breast cancer.
- 23. IRB 8245 A phase 1/2 study of suramin in combination with paclitaxel in advanced (stage IIB or IV) breast cancer.
- 24. IRB 8290 Molecular and clinical characterization of BRCA positive versus BRCA negative breast cancers
- 25. MI-CP137 A phase I multicenter, open-label, single-arm dose-escalation study to evaluate the safety, tolerability, and antitumor activity of continuous intravenous infusion of the bispecific t-cell engager MEDI-538 in adults with B-cell non-Hodgkin's lymphoma not eligible for curative therapy.
- 26. MI-CP 155 A phase 1/2, open-label, single-arm, dose-escalation study to evaluate the safety, tolerability and antitumor activity of continuous intravenous infusion of the bispecific T-cell engager MEDI-538 in adults with B-cell chronic lymphocytic leukemia (B-CLL) who have minimal residual disease following previous therapy for B-CLL.
- 27. MI-CP153 A phase 2 open-label, single arm study to evaluate the safety, tolerability and anti-tumor activity of biweekly infusion of MEDI-561, a small molecule inhibitor of Hsp90, in women with HER-2/neu over-expressing (Her2+) breast cancer who have progressed despite prior trastuzumab-based therapy.
- 28. MI-CP159 A phase 2, Open-label, single-arm, multicenter study evaluating the safety and antitumor activity of IPI-504, a novel small molecule inhibitor of heat shock protein 90 (Hsp90), in patients with metastatic melanoma.
- 29. MI-CP160 A phase 2, open-label, single-arm, multicenter, multinational study to evaluate the antitumor activity and safety of IPI-504, a novel small molecule inhibitor of heat shock protein 90 (Hsp90), in patients with locally advanced or metastatic human epidermal growth factor receptor 2-positive (HER2+) breast cancer who have no prior treatment with HER2-targeted therapies for advanced disease, or greater than 1 year duration since completion of HER2-targeted therapies for adjuvant therapy of local disease.

- 30. MI-CP171 A phase 3 randomized, double-blind, placebo-controlled, multicenter study evaluating the efficacy and safety of IPI-504 in patients with at least imatinib- and sunitinib-resistant or –intolerant gastrointestinal stromal tumors.
- 31. MI-CP177 A phase 1, open-label, single-arm, dose-escalation study to evaluate the safety, tolerability, pharmacokinetics, and biologic activity of MEDI-547, a humanized monoclonal antibody conjugated to monomethyl auristatin phenylalanine, directed against the epithelial tyrosine kinase receptor EphA2, in patients with refractory solid tumors associated with EphA2 expression.
- 32. TL32711-FIH-007-PTL A Phase 1, Open-Label, Non-randomized, Dose Escalation Study of the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of TL32711 in Adults with Refractory Solid Tumors or Lymphoma
- TL32711-POC-0078-PTL A Phase 1B/2A, Open-label, Non-randomized, Multi-arm Study of TL32711 in Combination with Chemotherapy in Subjects with Advanced or Metastatic Solid Tumors
- 34. RPCI # I 210811 -A Phase I study of TL32711 in combination with gemcitabine in patients with advanced solid tumors
- 35. UPCC#15411- A Phase I-II Open-label non-randomized study using TL32711 For patients with Acute Myelogenous Leukemia.
- 36. NCI#9235 Phase II Open Label Non-Randomized Single Agent Study of the SMAC (Second Mitochondrial-Derived Activator of Caspases)-Mimetic Birinapant (TL32711; NSC 756502) in Relapsed Platinum Resistant or Refractory Epithelial Ovarian Cancer, Primary Peritoneal Cancer or Fallopian Tube Cancer
- 37. TL32711-POC-0087-PTL-Protocol. A Phase 1b/2a, Open-label, Non-randomized Study of Birinapant in Combination with 5-azacitidine in Subjects with Myelodysplastic Syndrome who are Naïve or are Refractory or have Relapsed to 5-azacitidine Therapy.
- 38. TL32711-POC-0090-PTL. A Phase 1b, Open-label, Non-randomized Multicenter Study of Birinapant in Combination with Conatumumab in Subjects with Relapsed Epithelial Ovarian Cancer, Primary Peritoneal Cancer or Fallopian Tube Cancer

Research Funding Experience:

- 1. Cleveland Clinic Foundation, Taussig Cancer Center Translational Therapeutics Research Award Active (2/1/00) "Preclinical translation of COX-2 inhibitor treatment as an adjunct to conventional immunotherapy". Principal Investigator: Peter A. Cohen, M.D.; Co-investigator: David E. Weng, M.D.,Ph.D.
- 2. Don Shula Foundation, Inc. (4/27/00) "Adoptive Immunotherapy of Breast Cancer". Principal investigator: Julian A. Kim, M.D., Co-investigator David E. Weng, M.D., Ph.D.
- 3. Ribozyme Pharmaceuticals Inc.(5/16/00). "Angiozyme Translational Research Award-Inhibition of Flt-1 expression as an anti-tumor strategy in the murine 4T1 model system for metastatic breast carcinoma". Principal Investigators: Julian A. Kim, M.D., Co-investigator: David E. Weng, M.D., Ph.D.,
- 4. NIH-RO1 Grant (2000) CD8+ helper-independent T cells in tumor therapy. Principal Investigator: Peter A. Cohen. M.D; Co-Investigator: David E. Weng, M.D.Ph.D.
- 5. Lynne Cohen Foundations (5/2001) Preclinical Studies of Adoptive Immunotherapy for Advanced Ovarian Cancer. Principal Investigator: David E. Weng, MD.PhD.
- 6. NIH CA77091-04, (Competitive Renewal 12/01/04 11/30/09) Telomeres, telomerase and chemotherapy: Bench to bedside. Principal Investigator: Jessie L.S.

- Au, Ph.D., Consultant David E. Weng, MD.Ph.D.
- 7. Avon Foundation 2004 A Phase I/II Study of Suramin in Combination with Paclitaxel in Advanced (Stage IIIB or IV) Metastatic Breast Cancer. Principal Investigator: Charles Shapiro, MD, Co-investigator David E. Weng, MD, Ph.D.
- 8. Advanced Biophotonics, Inc, 2005 Preoperative chemotherapy Monitoring Study, Principal Investigator- David Weng, MD,Ph.D.

Awards:

1980 - High School Valedictorian, Rochester Adams High School

1980 - National Merit Scholar

1981-1984 - Harvard College Scholar

1984 - Medal of Charles Eliot (Community Service Award)

1984 - A.B. Magna cum laude, Biochemical Sciences,

1985-1992 - Medical Scientist Scholar of the Life and Health Insurance Medical

Research Fund

1992 - Hartford Foundation Clinical Scholar in Geriatric Medicine

1993 - NIH Research Festival Clinical Trainees Research Award

1995 - Osler House Staff Award "Most Aequanimitas Resident"

1995-98 - U.S. Public Health Service Commissioned Corps, Lt. Cmdr

1995-98 - Chief Fellow, National Cancer Institute Medicine Branch

1998 - Joint AACR/ASCO Conference, "Methods in Clinical Cancer Research"

2001 - Northern Ohio Breast Cancer Coalition - Certificate of Appreciation

2001 - Cuyahoga County Commissioners - Certificate of Appreciation -2001 Breast and Cervical Cancer Treatment Program

2001 - The Ohio State Senate - Special Recognition Citation - 2001 Breast and Cervical Cancer Treatment Program

2006 – George Crile, Jr. M.D. Award, Northern Ohio Breast Cancer Coalition, Excellence in Patient Care and Advocacy.

Military/Government Service:

-1995-98 U.S. Public Health Service, Commissioned Corps.

Professional Societies/Committees:

- -American College of Physicians
- -American Society for Clinical Oncology
- -American Society for Hematology
- -American Association for Cancer Research
- -American Medical Association
- -Johns Hopkins Medical and Surgical Association

Certifications:

- -State of California Medical License (2013-present)
- -State of Maryland Medical License (1995-present)
- -State of Ohio Medical License (1998-present)
- -State of California Medical License (2013- pending)
- -Federal DEA Licensure for Controlled Substances (1996-present)
- -ABIM Diplomate, Internal Medicine (1995-2005)
- -ABIM Diplomate, Medical Oncology (1997 present)

Journal Editorship/Reviewer Experience:

- -Current Oncology Reports Literature Review Editor, 1998-2001
- -Ad hoc Reviewer, Journal of Clinical Investigation
- -Ad hoc Reviewer, Cancer Immunology and Immunotherapeutics
- -Ad hoc Reviewer, Cancer Research
- -Ad hoc Reviewer, Journal of Interferon and Cytokine Research
- -Ad hoc Reviewer, Cancer

Grants Reviewer Activity Experience:

- -United States Veterans Administration Medical Research Program
- -Department of Defense, Congressionally Directed Medical Research Programs, Breast Cancer Research Program

Invited Talks:

- 10/29/99 CCF Taussig Cancer Center Grand Rounds Presentation: IRB 3309 "A safety and biological efficacy study of multidose angiozyme in patients with refractory solid tumors, Cleveland, OH.
- 2. 5/10/00 CCF Medicine Residents Noon Conference Talk New Developments in Cancer Therapeutics, Cleveland, OH
- 3. 8/16/00 Cleveland Clinic Foundation, Department of Otolaryngology "Current Status of Angiogenesis Inhibitors in Cancer Therapeutics", Cleveland, OH
- 4. 8/19/00 Pittsburgh Community Oncology "Advances in the Treatment of Metastatic Breast Cancer", Pittsburgh, P{A
- 5. 10/20/00 VIII Congress of the Dominican Society of Hematology and Oncology "Adjuvant Therapy for Breast Cancer", Santo Domingo, Dominican Republic.
- 6. 10/20/00 VIII Congress of the Dominican Society of Hematology and Oncology "Novel Approaches for the Therapy of Advanced Breast Cancer", Santo Domingo, Dominican Republic
- 7. 10/28/00- Northern Ohio Breast Cancer Coalition Foundation "Progress and Hope", Cleveland, OH
- 8. 12/8/00 The Moll Cancer Center Grand Rounds "Genetics and Biology of Cancer", Fairview Park, OH
- 9. 1/20/01 3rd International Symposium on Anti-Angiogenic Agents Angiozyme: Clinical development of a novel ribozyme-based angiogenesis inhibitor. Dallas TX
- 10. 3/16/01 Advances in the Treatment of Metastatic Breast Cancer Tampa Area Community Oncology, Tampa , FL
- 11. 5/2/01 New Therapeutic Approaches in the Management of Breast Cancer Taussig Cancer Center, Cleveland ,OH
- 12. 6/7/01 ASCO 2001 Update in Breast Cancer Central Pennsylvania Oncology Group, Harrisburg, PA
- 13. 6/9/01 Tumor-Dendritic Cell Fusion Approaches to Immunotherapy. Gene Therapy Subcommittee of the Annual Meeting of the Eastern Cooperative Oncology Group, Pittsburgh, PA.
- 14. 7/17/01 Taussig Cancer Center Grand Rounds. CCF
- 15. 10/20/01 Research Frontiers in Medical Oncology, Northern Ohio Breast Cancer Coalition Symposium, Cleveland, OH
- 16. 11/11/01 ANGIOZYME, a Synthetic Ribozyme Targeting the mRNA of VEGFR-1: Clinical Update, 16th Annual Meeting for the Society for Biological Therapy, Bethesda, MD.
- 17. 1/11/2002 4th International Symposium on Anti-Angiogenic Agents. Dallas, TX.
- 18. 2/23/2002 5th Annual Regional Cancer Center Consortium for the Biological Therapy of Cancer. Cleveland, OH

- 19. 3/7/2002 University of Michigan, Division of Surgical Oncology, Ann Arbor, MI
- 20. 5/8/2002 Columbus Community Oncology, Columbus, OH.
- 21. 7/9/2002 Taussig Cancer Center Grand Rounds, Cleveland, OH.
- 22. 10/05/2002 Northern Ohio Breast Cancer Coalition Fund 3rd Annual Breast Cancer Symposium., Cleveland, OH.
- 23. 04/2/03 "Advances in the Treatment of Metastatic Breast Cancer". Minneapolis Community Oncology, Minneapolis, MN
- 24. 04/23/03 "Advances in the Treatment of Metastatic Breast Cancer" University of Minnesota, Minneapolis, MN
- 25. 09/10/2003 "Advances in the Treatment of Metastatic Breast Cancer" Kaiser Permanente Oncology, Cleveland OH
- 26. 10/28/03 Taussig Cancer Center Grand Rounds, Cleveland, OH
- 27. 11/19/03 "Hormonal Therapy Management Strategies in Breast Cancer", Cleveland, OH.
- 28. 3/16/04 CCF Internal Medicine Residents Noon Conference "Breast Cancer 2004", Cleveland, OH
- 29. 4/23/04 University of Kentucky "Management of Metastatic Breast Cancer. Lexington, KY
- 5/22/04 Multidisciplinary Approach to Breast Cancer: A Forum for Trainees in Medical Oncology, Surgery, Radiation Oncology, and Radiology, Cleveland, OH 44195
- 31. 6/17/04 Firelands Regional Medical Center Grand Rounds "Molecular Approaches in Breast Cancer.", Pittsburgh, PA
- 32. 7/1/04 Cleveland Clinic Foundation ASCO Review 2004, Cleveland, OH
- 33. 8/4/04 Mt. Sinai Medical Center Oncology Center Grand Rounds, Baltimore, OH.
- 34. 8/4/04 Mercy Medical Center Breast Tumor Board Rounds, Baltimore, OH
- 35. 9/29/04 Mercy Health Partners Oncology Services Meeting, Toledo, OH
- 36. 10/22/04 The Leukemia and Lymphoma Society Cancer in the Classroom program, Beachwood, OH.
- 37. 11/2/04 Genomic Health Preceptorship, Cleveland, OH
- 38. 11/3/04 American College of Surgeons, South Florida Chapter Meeting, West Palm Beach, FL
- 39. 11/4/04 Florida Hospital Cancer Institute Multidisciplinary Tumor Board , Orlando, FL
- 40. 1/14/05 Integris Baptist Hospital Oncology Grand Rounds, Oklahoma City, OK
- 41. 1/25/05 Grand Rapids Regional Oncology Highlights of 2004 San Antonio Breast Cancer Symposium, Grand Rapids, MI
- 42. 2/9/05 Cleveland Clinic Foundation Best of 2004 SABCS, Independence, OH
- 43. 2/19/05 Grand Blanc Oncology Highlights of 2004 SABCS, Grand Blanc, MI
- 44. 2/22/05 Cornell University Tumor Board, New York Hospital, New York City, NY
- 45. 3/10/05 Summa Health Systems Tumor Board, Akron, OH
- 46. 4/12/05 Overview of Hormonal Therapies for Breast Cancer, Cleveland OH.
- 47. 4/18/05 Community Oncology CME, Indianapolis, IN
- 48. 4/29/05 Lehigh Valley Hospital Tumor Board Allentown, PA
- 49. 5/9/05 Harper Hospital Tumor Board Detroit, MI
- 50. 5/18/05 Overview of Hormonal Therapies for Breast Cancer, Canton, OH
- 51. 6/2/05 Waterloo Community Oncology, Educational Concepts CME, Waterloo, IA
- 52. 6/10/05 CCF Intensive Review of Internal Medicine Board Review, Cleveland, OH
- 53. 6/23/05 Fairfax Hospital, CME, Fairfax, VA
- 54. 6/29/05 Jacksonville Community Oncology CME, Jacksonville, FL
- 55. 7/19/05 Trumball Memorial Hospital CME, Warren, OH

- 56. 8/3/05 Roger Maris Cancer Center CME, Fargo, ND
- 57. 8/17/05 Montgomery Community Oncology CME, Montgomery, AL
- 58. 8/18/05 Pensacola Oncology CME, Pensacola, FL
- 59. 9/1/05 US Oncology CME, Albany, NY
- 60. 9/15/05 Bakersfield Community Oncology CMe, Bakersfield, CA
- 61. 9/22/05 Providence Oncology CME, Providence, RI
- 62. 10/8/05 Ohio/West Virginia Oncology Association CME, Columbus, OH
- 63. 10/12/05 Chattanooga Community Oncology CME, Chattanooga, TN
- 64. 11/1/05 Community Oncology CME, Boulder, CO
- 65. 11/2/05 Community Oncology CME,. Salt Lake City, UT
- 66. 11/3/05 Community Oncology CME, Hutchinson, KS
- 67. 11/9/05 Community Oncology CME, Lexington, KY
- 68. 11/10/05 Community Oncology CME, Evansville, IN
- 69. 11/16/05 Community Oncology, CME, Covington, KY
- 70. 11/17/05 Community Oncology CME, Boston, MA
- 71. 11/30/05 Community Oncology CME, Flushing, MI
- 72. 12/1/05 Community Oncology CME, Kansas City, MO
- 73. 1/12/06 Miami Valley Hospital, SABCS 2005 Review CME, Dayton, OH
- 74. 1/25/06 Community Oncology CME, Cleveland, OH
- 75. 2/8/06 Cleveland Clinic Foundation SABCS 2005 Review CME, Cleveland, OH
- 76. 2/9/06 Community Oncology CME, Oklahoma City, OK
- 77. 2/16/06- Community Oncology CME, Albuquerque, NM
- 78. 2/23/06 Community Oncology CME, Louisville, KY
- 79. 2/25/06 7th Annual Health Care Forum, Blount County Medical Society CME, Oneanta, AL
- 80. 3/1/06 Long Island Oncology Network SABCS 2005 Review CME, Long Island, NY
- 81. 3/9/06 New York City Community Oncology CME, New York, NY
- 82. 4/12/06 Columbus Community Oncology CME, Columbus, OH
- 83. 4/13/04 SUNY Upstate Medical Center Grand Rounds, Syracuse, NY
- 84. 4/21/06 Abraxis Oncology Advisory Board, San Antonio, TX
- 85. 5/12/06 US Oncology Executive P&T Committee Presentation, Dallas, TX
- 86. 5/24/06 Community Oncology CME, Lancaster PA
- 87. 5/31/06 Oncology Grand Rounds, Pardee Hospital, Hendersonville, NC
- 88. 6/22/06 Community Oncology CME, Springfield, MA
- 89. 6/29/06 Community Oncology CME Columbia, SC
- 90. 6/30/06 Community Oncology CME, Elizabethtown KY
- 91. 8/10/06 Community Oncology CME, Colorado Springs, CO
- 92. 8/23/06 Community Oncology CME, Rockford, IL
- 93. 8/24/06 Community Oncology CME, Rosemont, IL
- 94. 8/29/06 Community Oncology CME, Asheboro, NC
- 95. 9/7/07 MedImmune Company-wide Presentation of Hsp90 Inhibitor Program, Gaithersburg, OH
- 95. 2/8/08 Breast Cancer Genetics and Predicting Cancer Recurrence, Cleveland OH
- 96. 10/20/2010 Zhongguancun Forum 2010, Beijing China.
- 97. 12/1/11 Mid-Atlantic Bio Conference, Gaithersburg, MD
- 98. 3/6/12 Defined Health 23rd Annual Cancer Progress Conference, NYC, NY
- 99. 2/21/13 "Pipelines in Oncology", Dana-Farber/Massachusetts General Hospital Cancer Center. Boston, MA

Publications:

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- 13. Weng DE (2000) Angiogenesis. Horizons in Cancer Therapeutics. 1:14-15.
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- 2. Coordinated Expression of Members of the jun Family During Early Embryogenesis in the Mouse. Cold Spring Harbor Laboratory, Molecular Genetics of the Mouse, August 29, September 2, 1990.
- 3. Gene Expression in Mouse Primordial Germ Cells Detected by cDNA Library Analysis. Gordon Conference, Mammalian Gametogenesis and Embryogenesis. Gordon Conference, July 30-August 2, 1990.
- 4. Targeted Disruption of the Insulin Receptor Gene in ES cells. Wind River (CO) Conference on Genetic Exchange. June, 1991.
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- 6. Expression of c-jun and junB during mouse early development. NIH Research

- Festival. September 1993.
- 7. Increased susceptibility to apoptosis in CD4 cells post autologous transplantation. American Society for Hematology, 1997.
- 8. Detection of Circulating Tumor Cells and Micrometastases in Stage II, III and IV Breast Cancer Patients using Immunocytochemistry (1999) United States and Canadian Academy of Pathology.
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- 14. Silverman D, Berstrom R, Rothchild K, Chambers K, Weng D, Kim JA. (2001) Reduction in spontaneous metastases from 4T1 murine carcinoma using a ribozyme which targets flt-1(VEGF receptor subtype 1) mRNA. 12th NCI-EORTC-AACR Symposium on New Drugs in Cancer Therapy.
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- 31. Wesolowski R, Choueiri TK, Rybicki L, Shealy AG, Casey G, Weng D, Moore HCF (2007). BRCA Mutation Status And Risk Of Secondary Malignancy Following Chemotherapy For Breast Cancer. ASCO 2007
- 32. Leow CC. Coffman K, Chesebrough J, Mao S, Fazenbaker C, Gooya J, Weng D, Porter J, Coats S, Jallal B, Jackson D, Chang YS. (2007) IPI-504, a selective inhibitor of Hsp90, exhibits potent antitumor activity against HER2+, trastuzumab(Herceptin) –sensitive and –refractory cell lines. AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics. Abstract #B225.
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- 34. AACR Annual Meeting 2011 (Abstract LB-406) Phase 1 study of the Smac mimetic TL32711 in adult subjects with advanced solid tumors and lymphoma to

- evaluate safety, pharmacokinetics, pharmacodynamics, and antitumor activity. Ravi K. Amaravadi, Russell J. Schilder, Grace K. Dy, Wen W. Ma, Gerald J. Fetterly Jr., David E. Weng, Martin A. Graham, Jennifer M. Burns, Srinivas K. Chunduru, Stephen M. Condon, Mark A. McKinlay, Alex A. Adjei. Cancer Research July 12, 2011 71:LB-406; doi:10.1158/1538-7445.AM2011-LB-406
- 35. ASH Annual Meeting 2011 (Abstract 604) Antagonizing IAPs by SMAC Mimetic TL32711 Induces Apoptosis in AML Cells Including AML Stem/Progenitor Cells Alone and in Combination with Chemotherapy. Bing Z Carter, Ph.D., Duncan H Mak, M.S., Yihua Qiu, Steven M. Kornblau, MD, Po Yee Mak, MS, David Weng, Mark A McKinlay and Michael Andreeff, M.D., Ph.D.
- 36. ASCO Annual Meeting 2012 (Abstract 3029)- Clinical pharmacokinetics of the Smac-mimetic birinapant (TL32711) as a single agent and in combination with multiple chemotherapy regimens. Gerald J. Fetterly, Biao Liu, Neil N. Senzer, Ravi K. Amaravadi, Russell J. Schilder, Lainie P. Martin, Patricia LoRusso, Kyriakos P. Papadopoulos, Alex A. Adjei, Patricia D. Zagst, Mark A McKinlay, David Edward Weng, Martin Graham. J Clin Oncol 30, 2012 (suppl; abstr 3029)
- 37. AACR Annual Meeting 2012 (Abstract 3857) Smac mimetic TL32711 and TRAIL synergistically induce apoptosis of germinal center B lymphoma cells. Mitchell R. Smith, Indira Joshi, David E. Weng, Srinivas Chunduru, Mark A. McKinlay
- 38. AACR Annual Meeting 2012 (Abstract 1939). TL32711, a novel Smac mimetic, exerts significant antitumor efficacy in primary pancreatic adenocarcinoma model. Wen Wee Ma, Hao Zhang, Bonnie Hylander, Charles LeVea, Elizabeth Repasky, David Weng, Jennifer Burns, Srinivas Chunduru, Martin Graham, Gerald Fetterly, Mark McKinlay, Alex Adjei.
- 39. AACR Annual Meeting 2013 (Abstract 3336). The Smac Mimetic Birinapant Synergistically Induces Apoptosis in Combination with Type I Interferons and GM-CSF. Christopher A. Benetatos, Jennifer M. Burns, Ernest C. Borden, Daniel Lindner, Yasuhiro Mitsuuchi, Mark A. McKinlay, Gurpreet Singh Kapoor, Eric M. Neiman, Martin E. Seipel, Guangyao Yu, Martin Graham, David Weng, Stephen M. Condon, C. Glenn Begley and Srinivas K. Chunduru. Cancer Research August 14, 2013 73:3336; doi:10.1158/1538-7445.AM2013-3336
- 40. AACR Annual Meeting 2013 (Abstract 3333) Birinapant, a Novel Bivalent SMAC Mimetic Drug, is Superior to Monovalent SMAC Mimetics in Inhibition of NF-κB by Targeting TRAF2-bound cIAP1 and cIAP2 Y. Mitsuuchi, S. M. Condon, E. M. Neiman, C. A. Benetatos, M. E. Seipel, G. S. Kapoor, A. C. Mufalli, G. Yu, O. Maguire², H. Minderman², M. A. McKinlay, M. Graham, D. Weng¹, and S. K. Chunduru.
- 41. ASCO Annual Meeting 2013 (Abstract 2504). A Phase 1 Study of Birinapant (TL32711) Combined with Multiple Chemotherapies Evaluating Tolerability and Clinical Activity for Solid Tumor Patients.R. Amaravadi, N. Senzer, L. Martin, R. Schilder, P. LoRusso, K.P. Papadopoulos, M. Graham, D. Weng, A. A. Adjei. J Clin Oncol 31, 2013 (suppl; abstr 2504)
- 42. ASCO Annual Meeting 2013 (Abstract 3621). Clinical Activity and Tolerability of the SMAC-mimetic Birinapant (TL32711) plus Irinotecan in Irinotecanrelapsed/refractory Metastatic Colorectal Cancer. N. Senzer, P. LoRusso, L. Martin, R. Schilder, R. Amaravadi, K.P. Papadopoulos, Z. Segota, M. Graham, D. Weng., A. A. Adjei. J Clin Oncol 31, 2013 (suppl; abstr 3621)
- 43. ASCO Annual Meeting 2014 (Abstract submitted). Pharmacodynamic biomarkers from Phase 2 Study of SMAC (Second Mitochondrial-Derived Activator of Caspases)-Mimetic Birinapant (TL32711; NSC 756502) in Relapsed Platinum

Resistant Epithelial Ovarian Cancer (EOC), Primary Peritoneal Cancer (PPC), or Fallopian Tube Cancer (FTC) (NCT01681368). C. Annunziata et al.

References available on request.

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Venture capitalist with 30 years of investing, pharma licensing and scientific experience.

Track record of identifying promising investments and working effectively with company management and co-investors to drive value creation.

Key leader in venture partnership, active in deal sourcing and portfolio management as well as experienced with independent and corporate venture fund administration.

PROFESSIONAL EXPERIENCE:

PFIZER VENTURE INVESTMENTS (New York, NY)

2008 - present

Executive Director

Managing biotechnology and healthcare investments for Pfizer. Responsible for identifying, assessing, and making investments in platform technology and drug discovery and development companies. Led or co-led 8 investments to-date and currently managing investments in *Aquinox* (Vancouver, BC), developing novel anti-inflammatory drugs; *Autifony* (London, UK), advancing new treatments for hearling loss; *Flexion* (Woborn, MA), a specialty pharma company focused on new injectable treatments for osteoarthritis; *Mersana* (Cambridge, MA) developing antibody-drug conjugates; *Merus* (Utrecht, Netherlands), developing a biologics platform for oligoclonic antibody production from a single cell; *MISSION Therapeutics* (Cambridge, UK) identifying new targets for anti-cancer therapies in the DNA repair pathway; *Neuronetics* (Malvern, PA), commercializing NeuroStar TMS Therapy, a non-invasive, non-systemic treatment for depression; and *TetraLogic* (Malvern, PA) developing SMAC mimetics for cancer therapy. Strong relationships in biotechnology community and with other life science investors.

EUCLIDSR PARTNERS (New York, NY)

2000 - 2008

General Partner

Partner in \$250M venture capital fund focused in life sciences, information technology and convergence. Identified, evaluated, and made biotechnology and healthcare IT investments, including PIPEs. Responsible for actively managing investments in *Acurian*, Inc. (Horsham, PA), a patient recruitment solutions provider; *Fluidigm* (NASDAQ: FLDM; San Francisco, CA), a microfluidics company developing tools for the life science research and molecular diagnostic markets; *InnaPhase* Corp. (Phila, PA), a pharma-focused LIMS company which was sold to Thermo Electron in 2004; lead investor and first Board Chair of *Targacept*, Inc. (NASDAQ: TRGT; Winston-Salem, NC), a company focused on therapeutics targeting neuronal nicotinic receptors for nervous system diseases; and *Vivus* (NASDAQ: VVUS; Mountain View, CA), a company developing treatments for obesity and sexual health.

SR ONE (West Conshohocken, PA) 1999 - 2003
Vice President 2001 - 2003
Investment Manager 1999 - 2001

Managed biotechnology investments for SR One, GSK's \$100M venture capital subsidiary. Key driver on 10 investments, including *Adolor* Corporation (NASDAQ: ADLR, Exton, PA); *Avantium* International (previous Chair, Amsterdam, The Netherlands); *Scynexis* (RTP, NC); and *Vicuron* (NASDAQ: MICU, King of Prussia, PA).

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SMITHKLINE BEECHAM (Upper Merion, PA) Director, Scientific Licensing

1984 - 1999

1994 - 1999

Responsible for identifying product opportunities and coordinating due diligence in therapeutic areas of rheumatoid arthritis, osteoarthritis, osteoporosis, urology and oncology. Negotiated license agreements for several major product acquisitions and platform technologies (Coulter, Immunogen). Developed proposals and completed deal for out-licensing SB products and technologies (Invitrogen). Frequent interactions with senior R&D management to set strategy and develop / implement in-licensing action plans. Developed substantial network throughout biotechnology industry.

Research Manager, Molecular Biology, SB Animal Health

1987 - 1994

Led research group using genetic engineering to clone and express viral, bacterial and parasitic antigens for development of animal vaccines. Responsible for recommending new research and development strategies. Directed two research projects. Evaluated new technologies under consideration for inlicensing. Responsible for establishing and maintaining collaborations with top scientists in key areas of research.

Associate Senior Investigator, Molecular Genetics, SKF Laboratories

1984 - 1987

Key liaison between SKF Molecular Biology department and SB Animal Health R&D (Lincoln, NE). Responsible for generating vaccine antigens using genetic engineering technologies. Established recombinant vaccinia virus technology at SKF.

EDUCATION AND TRAINING:

Research Fellow Laboratory of Viral Diseases, National Institute of Allergy and

Infectious Diseases (NIAID), 1981 – 1984

Ph.D. Microbiology, University of Pittsburgh School of Medicine, 1981

• B.S. Juniata College, *magna cum laude*, 1975

PROFESSIONAL ACTIVITIES AND CREDENTIALS

Education Committee Chair, Corporate Venture Capital Group Advisory Committee (2011 -)

Member of Ben Franklin Technology Partners Bio/Life Sciences Investment Advisory Committee
(2003 - present)

Board of Directors, Pennsylvania Biotechnology Association (1991 – 1998)

President, WIN (2008 – 2010); Board of Directors 2006 - 2011

Author of numerous scientific publications and patents/patent applications

GRANT A. WILLIAMS, M.D.

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Cell Phone: 610-764-3595 <u>Grant@WmsCancerDrugs.com</u> www.WmsCancerDrugs.com

Phone: 610-688-6387

Experience

Sept. 2008-

present

President, Williams Cancer Drug Consulting, LLC

• Independent oncology and regulatory consultant serving large and small oncology drug companies

2006-2008 Executive Director, Clinical Development, GlaxoSmithKline Pharmaceuticals

- Chairman of oncology protocol review committee
- Clinical Development Physician in a VEGR TKI drug development team
- Voting Member of GSK Oncology Decisional Board (MDM)
- Advisor to VP of Clinical Development
- Member of PhRMA working group on progression free survival

2005-2006 Executive Director, Clinical Development, Novartis Pharmaceuticals

- Chairman of oncology protocol review committee
- Clinical Development Physician for investigational drug RAD001

2002-2005 Deputy Director, Division of Oncology Drug Products, CDER, FDA

- Participated in PreIND, End-of-Phase-2, and PreNDA meetings between DODP and Sponsors (often as Acting Director), providing advice on the design of pivotal trials for drug approval.
- Organized DODP management and review processes for a 43-member staff and for co-located consulting staff
- Directed hiring and training of the 15 primary medical reviewers in DODP.
- Organized the Oncology End Points evaluation process including workshops, advisory committee meetings, and draft guidance documents. (http://www.fda.gov/cder/drug/cancer_endpoints/default.htm).
- First author on draft Oncology General End Points Guidance (2005)
- Member of the FDA Pharmacogenomics Working Group and Interdisciplinary Pharmacogenomics Working Group (IPRG).

1997 - 2002 Medical Team Leader in the Division of Oncology Drug Products

- Served as mentor and secondary reviewer for IND and NDA submissions for a team of five medical officers. Advised Sponsors on design of pivotal trials for drug approval. Team accomplishments included review of 20 New Drug Applications or Efficacy Supplements, including approval of the Gleevec NDA in a record 2 1/2 months.
- Organized FDA working groups and authored two Guidance Documents:
 -Cancer Guidance on Clinical Data in Marketing Applications, and
 -IND Exemptions for Lawfully Marketed Cancer Drugs.

Led a CDER Good Review Practices project to evaluate the review processes
of medical officers. Constructed seven diagrams of medical officer review
processes from six therapeutic areas.

1989-1996 Medical Review Officer in the Division of Oncology Drug Products

- Reviewed IND and NDA submissions on a large portfolio of cancer drugs including phase 1, phase 2, and phase 3 trials. Performed primary review of 14 NDAs or Efficacy Supplements including the initial approval of Taxol in 1992.
- Presented review findings to the Oncology Drugs Advisory Committee.
- Developed methods for medical officer review of electronic NDA data.

1988 - 1989 Private practice in medical oncology

• Private practice with Phil Roberts, M.D. in Albany, Ga.

Education

Laucation	
1988	Completed fellowship in hematology and oncology , Universtiy of
	Alabama at Birmingham (UAB).
1986	Completed residency and internship in internal medicine, UAB
1983, 1979	Pathology fellowship, UAB.
1982	Received Medical Degree from UAB. Graduated first in class.

Specialty Boards

1986	Internal Medicine
1989	Medical Oncology

Medical Licensure: Maryland

Honors and Awards

- 1973 Valedictorian, Coffee High School, Florence Alabama.
- 1982 Dempsey Scholastic Award for graduating first in medical school class at University of Alabama at Birmingham.
- 1993 Commissioner's Special Citation as member of the Taxol Review Group
- 1996 CDER award for pioneering work in use of the computer in reviewing NDA data
- 1998 Team Leader Excellence Award.
- 1998 Outsanding reviewer award for review of Photofrin supplement while functioning as team leader.
- 2001 On the spot award from Office of Drug Evaluation I for "Prolific work on Guidances."
- 2001 CDER Team Excellence Award for Gleevec Team.
- 2001 CDERs' Excellence in mentoring award: For arranging a training course for new and current staff in the Oncology Drugs Division covering all aspects of the scientific and regulatory review process.
- 2004 CDER Special Recognition Award as member of the Cancer Drug Approval Endpoints Team.

Invited Presentations

- 1. The Review Process from the Perspective of a Medical Reviewer, The Sixth Great Lakes Symposium on Applied Statistics, Kalamazoo, Michigan, October, 2000.
- Presentation on FDA Cancer Data Guidance to meeting of NCI, pharmaceutical representatives, and cancer cooperative group representatives, San Francisco, May 2001.
- 3. Presentation on Regulatory Considerations in the Design of Trials for Antiangiogenic Agents to an Expert Consensus Meeting on Clinical Trials for Antiangiogenic Therapy of Cancer, San Francisco, California, May, 2001.
- 4. Invited Presentation on Regulatory Consideration in Oncogenomics at AACR Oncogenomics Symposium in Phoenix Arizona, Feb 1, 2003.
- 5. Invited Presentation to DIA Session: Medical Review and the CRF, April 2, 2003.
- 6. Presentation to DIA QOL workshop on Tumor Related Symptoms and Oncology Drug Approval, April 29, 2003.
- 7. Presentation to Harvard-Schering Pough workshop on statistics in cancer: time to progression as an oncology endpoint. May 29, 2003.
- 8. Chair of Session and Presentation at Keystone Symposium on Genomic Biomarkers: Impact on Drug Discovery and Clinical Practice, Santa Fe, New Mexico, January 26 30, 2004.
- 9. Presentation to PhRMA BRMC (Bioresearch Monitoring Committee) on Monitoring and Auditing in NCI versus Industry Clinical Trials, March 11, 2004.
- 10. Meet the Professor's series: Drug Development and Approval in the United States, Understanding the Regulatory Process. June 5, 2004 at ASCO annual meeting.
- 11. Session leader at the 2004 Accelerating Anticancer Agent Development and Validation Workshop. July13-14, 2004, Baltimore, MD.
- 12. Invited participant in State Specific Clinical Trial End Points for Prostate Cancer, sponsored by Prostate Cancer Foundation, held in NYC, NY, 8-16-04.
- 13. Speaker at AAPS Forum on Pharmacogenomics: "Impact of Genetics on Pharmacokinetics/Pharmacodynamics, Efficacy and Safety: Understanding Clinical Implications and Meeting Requirements of Regulatory Authorities, Baltimore MD, November 11, 2004.
- 14. Steering Committee: Pharmacogenomics in Drug Development and Regulatory Decision Making Workshop 3, Bethesda, April 11, 2005.
- 15. Member of ASCO Cancer Education Committee, Health Services Resource Track, 2004-. Chair of Education Session on Endpoints for approval, ASCO Annual meeting, May, 2005.
- 16. DIA Panel on Evolving Global Drug Registrational Environment, June, 2006.
- 17. DIA Presentation on Innovative Clinical Trial Designs in Oncology, June, 2006.
- 18. Presentation on Accelerated Approval: Misunderstandings and misconceptions at Drug Development Strategies in Oncology, Santa Monica California, October, 2006.
- 19. Presentation on Innovative Trial Designs in Oncology, Clinical Trials Congress, Las Vegas Nevada, February, 2007.
- 20. Institute for International Research, Atlanta Georgia, April 2007: Regulatory tradition and the new science: Accelerated Approval, a case study
- 21. Presentation at DIA, Atlanta, June 2007, "Accelerated approval-15 years later"
- 22. Presentation at DIA, Atlanta, June 2007: Development of oncology products in US and EU--Can it be better and faster?

- 23. Invited presentation at PSI (Statisticians in the Pharmaceutical Industry), Royal Statistical Society, London, October 2007: PFS, Historical and Regulatory Considerations.
- 24. Invited presentation at DIA Progression-Free Survival Workshop in Session on Criteria for Determination of Progression, Bethesda, Md, October 8, 2009.
- 25. Invited presentation at Society of Clinical Trials Conference: Endpoints, Strength of Evidence, and the FDA Approval Process in Oncology, Baltimore Maryland, May 19, 2009.
- 26. Presentation at annual DIA meeting: US Regulatory Considerations for Global Oncology Trials, San Diego, June, 2009.
- 27. Invited speaker: Advanced Biomarker Strategies in Oncology IIR, Boston MA, September 9, 1010.
- 28. Invited Speaker: Oncology Business Review Webinar: The Big Picture Forecast 2011, January 2011.
- 29. Invited Speaker: Molecular Therapeutics of Cancer Research Conference 2011: Regulatory Considerations in Combining Novel Anticancer Drugs, Montery, Ca, July 2011.
- 30. Lecture: Regulatory considerations in Cancer Drug Development, Course in Translating Cancer Discovery into Clinical Practice, NYU Cancer Institute, December 2011.

Selected Publications

- 1. Stone A, Bushnell W, Denne J, Sargent D, Amit O, Chen C, Helterbrand J and Williams G. Research outcomes and recommendations for the assessment of progression in cancer clinical trials from a PhRMA working group. Available Online 22 Mar 2011, Eur J Can, 2011.
- Paules M, Casey M, Williams G, Swann S, Murhpy P, Salazar V, Foose D and Baily B. Recommendations for capture, validation and summarization and summarization of data from studies using RECIST of data from studies using RECIST. Eur J Can: 47(2011) 697–701.
- 3. Williams G, Keegan P, Ogden P, Pazdur R, Temple R, McClellan M. FDA's role in the development and approval of drugs, biologics, and devices for cancer. Chapter in: DeVita and Hellman, eds., CANCER: Principles and Practice of Oncology,7th edition. Lippincott Williams & Wilkins, 2005. (Co-author of 8th edition, 2007 and of the 9th edition, 2010)
- 4. Williams G, Pazdur R. Regulatory Considerations in Clinical Trials of Novel Anticancer Drugs. Chapter in: Adjei and Buolamwini, eds., Novel Anticancer Agents: Strategies for Discovery and Clinical testing. Elsevier, Inc. 2006, 263-283.
- 5. Perez-Gracia JL, Williams G, et al. Assessment of the value of confirming responses in clinical trials in oncology. Eur J Cancer. 2005 Jul; 41(11): 1528-32.
- 6. Williams G. Endpoints for cancer drug approval. ASCO Educational Book, 2005.
- 7. Williams G. Editorial: Cancer drug development: for populations or for individuals? J Clin Oncol 2004;22 3441-3442.
- 8. Williams G, Pazdur R, Temple R. Assessing tumor-related signs and symptoms to support cancer drug approval. J Biopharm Stat. 2004 Feb;14(1):5-21.
- 9. Johnson J, Williams G, Pazdur R. End points and the United States Food and Drug Administration approval of oncology drugs. J Clin Oncol 21:1404-1411, 2003.

- 10. Chiao J, Williams G, Griebel D. A perspective on assessing tumor-related symptoms and health-related quality of life (HRQL) in cancer clinical trials. Book chapter in: Teicher and Andrews, eds., *Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials and Approval.* Humana Press, 2004.
- 11. Dagher R, Johnson, J, Williams G, Keegan P, Pazdur R. Accelerated Approval of Oncology Products: A Decade of Experience JNCI, Vol. 96, No. 20, October 20, 2004.
- 12. Williams G, Tun H, Pazdur R, and Chi G. Operational bias in assessing time to progression Time to Progression, Proceedings of ASCO, 2002. 21: Abstract #975.
- 13. Williams G, Cortazar P, Pazdur R. Developing drugs to decrease the toxicity of chemotherapy. J Clin Oncol. 2001 Jul 15;19(14):3439-41.

JUDITH A. FOX, Ph.D. FoxBiopharma LLC

1531 Golden Gate Ave. San Francisco, CA 94115 (415)336-2715 judyfoxphd@gmail.com

SUMMARY

Biopharma executive with over 20 years of experience in all phases of R&D of large and small molecule therapeutics for cancer and inflammatory diseases. Track record of leadership that delivers rational, coherent and successful programs. Domain area expertise in Translational Sciences (bench to clinic to market). Recognized for strategic and synthetic thinking, communication and accomplishing challenging goals.

Professional Experience

<u>FoxBiopharma LLC R&D Consultant - present</u> Large and small molecule oncology therapeutics

- R&D strategy and scientific advice
- Drug candidate search and evaluation for in-licensing
- FDA and EMA briefing documents, filings and meetings

Amphivena Therapeutics

Senior Vice President, R&D - February 2014 - present

 Consultant, R&D for development of a novel biologic TandAb antibody program for hematologic malignancies

Sunesis Pharmaceuticals

Vice President, Development 2008-2013

- Program Leader for vosaroxin (formerly voreloxin, SNS-595)
- Led program from early AML Phase 1 through successful interim analysis of VALOR, a pivotal Phase 3 adaptive design trial
- Translational sciences components of Phase 1b and Phase 2 studies; indication identification for subsequent trials; collaborations/KOL interactions
- EOP2 (CMC and clinical) and EMA Scientific Advice Meetings
- Company representative for Steering Committee and DSMB (open sessions)
- Product & Preclinical Development Head: translational sciences (translational medicine, pharm/tox, ADME), clinical pharmacology, project management, data management, clinical operations and medical writing functions
- Joint Project Team Member for MLN2480 pan-RAF kinase inhibitor
- Member of executive committee, involved with board interactions, investor, partnering, and in-licensing outreach and diligence

Senior Director, Program Leader 2006 – 2008

- Program Leader for vosaroxin in AML and ovarian cancers, and for SNS-032 in B cell malignancies
- Implemented Translational Medicine/Mechanism of Action programs for both projects with in-house research and collaborations with KOLs, MMRC

<u>Chiron Corporation/Novartis 2005-2006</u> <u>Senior Director, Translational Sciences</u>

- Department Head for Clinical Pharmacology, Preclinical PK, Drug Metabolism and GLP Bioanalytical PK assays and Senior Staff for Translational Sciences
- In addition to oversight of all projects within department, had direct project responsibilities for kinase inhibitors CHIR-265/RAF265, CHIR-258/TKI258/ dovitinib and antibodies CHIR-12.12/HCD122, CHIR-RX1; melanoma, AML, MM, other solid tumor and hematologic malignancies

Genencor International, Inc. 2002-2005

R&D Senior Director/Senior Staff Scientist

Co-Leader Research Organization and Head of Pharmacological Sciences

- Built new department responsible for preclinical functions and clinical pharmacology, member of Pharma Management Team responsible for strategic oversight of Healthcare Organization
- Business development scientific liason and support for Healthcare
- Identified in-licensing opportunity for BL22 and CAT-8015 from the Pastan laboratory at NCI currently in development by Medimmune/Astra Zeneca
- Led target ID for immunotoxin and ADEPT platforms

Genentech Inc. 1991-2001

Oncology/Opportunistic Focus Area Leader

Associate Director and Senior Scientist

- Clinical and Experimental Pharmacology/Pharmacokinetics/Metabolism
- Responsible for all oncology projects from late stage research through development stages, as well as several immunology programs
- Cancer Projects: Herceptin; Rituxan; Avastin (anti-VEGF); Apo2 Ligand, anti-CD40; anti-PSCA; Second Generation anti-VEGF; Armed Antibodies
- Anti-HER2 Translational Medicine: Special Studies/Mechanism of Action Program Team Leader for Phase 3 Program. Identified cells mediating Herceptin ADCC leading to new Research focus on antibody effector function
- Co/authored nonclinical and clinical pharmacology sections for Herceptin BLA; company attendee for ODAC
- Immunology & Emerging Opportunities Projects: Xolair (anti-IgE) Raptiva (anti-CD11a), rhuFabV2 for AMD, anti-CD18
- Laboratory resolved mechanism of Xolair:IgE immune complex elimination
- Authored nonclinical Raptiva CTD, nonclinical section for Xolair BLA, pre-IND and IND nonclinical sections for many other programs

Postdoctoral Research

The Rockefeller University

The Laboratory of Medical Biochemistry and The Laboratory of Obesity and Human Behavior (1988-1991)

Advisors: Jules Hirsch, M.D. and Anthony Cerami, Ph.D.

Research: Mechanism of insulin resistance induced by tumor necrosis factor.

The Laboratory of Molecular Parasitology – NIH postdoctoral fellow (1984-1988)

Advisor: George A.M. Cross, Ph.D., F.R.S.

Research: Glycosylphosphatidylinositol-specific phospholipases C from

Trypanosoma brucei and rat liver plasma membranes.

Research Associate

Tufts New England Medical Center (1978-1980)

Supervisor: Bernard M. Babior, M.D., Ph.D.

Vitamin B₁₂-dependent enzymes.

Education

1984 The Massachusetts Institute of Technology

Ph.D. in Mechanistic Enzymology/Biological Chemistry

Department of Chemistry 1980-1984

Advisor: Christopher T. Walsh

1978 Bryn Mawr College

A.B. Chemistry

1973 NSF Pre-college Summer Program 1973

The Jackson Laboratories

Memberships/Appointments

- The Massachusetts Institute of Technology Chemistry Visiting Committee 2010-present, renewed in 2013 for an additional 4 year term
- AAAS, AACR, ASCO, ASH

Post-graduate Training

- Leadership Development Program, Center for Creative Leadership Career Development Coaching
- Pharmacokinetics for the Pharmaceutical Scientist, UCSF
- Physiological Modeling Course; Win-Non Lin Training Course

GXP training

JA Fox February 2014

Publications

- Graves SW, Fox JA, Babior BM. Deamination of 2-aminopropanol by ethanolamine ammonia-lyase, kinetics and isotope effects for the R and S enantiomers of the substrate. Biochemistry 1980;19:3630-3633.
- Jacobson F, Daniels L, Fox JA, Walsh CT, Orme-Johnson WH. Purification and Properties of an 8-hydroxy-5-deazaflavin-reducing Hydrogenase from *Methanobacterium thermoautotrophicum.* J. Biol. Chem. 1982;257:3385-3388.
- Kojima N, Fox JA, Hausinger RP, Daniels L, Orme-Johnson WH, Walsh CT. Paramagnetic Centers in the Nickel-containing Deazaflavin-reducing Hydrogenase from *Methanobacterium thermoautotrophicum* Proc. Nat. Acad. Sci. USA 1983;80:378-382.
- Lindahl PA, Kojima N, Fox JA, Teo BK, Walsh CT, Orme-Johnson WH. Nickel and Iron EXAFS of F420-reducing Hydrogenase from *Methanobacterium thermoautotrophicum*. J Am. Chem Soc 1984;106:362-364.
- Tan S-L, Fox JA, Kojima N, Walsh CT, Orme-Johnson WH. Nickel Coordination in Deazaflavin and Viologen Reducing-Hydrogenase from Methanobacterium thermoautotrophicum: Investigation by Electron Spin Echo Spectroscopy. J Am. Chem Soc 1984;106:364-366.
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- Saltiel AR, Fox JA, Sherline P, Sahyoun N, Cuatrecasas P. Purification of a Phosphatidylinositol Kinase from Bovine Brain Myelin. Biochem. J. 1987; 241:759-763.
- Saltiel AR, Sherline P, Fox JA. Insulin-stimulated Diacylglycerol Production Results from Hydrolysis of a Novel Phosphatidylinositol-gycan. J. Biol. Chem. 1987;262:1116-1121.

- Fox JA, Livingston DJ, Orme-Johnson WH, Walsh CT. Deazaflavin-reducing Hydrogenase from *Methanobacterium thermoautotrophicum*: I. Purification and Characterization. Biochemistry 1987;26:4219-4227.
- Livingston DJ, Fox JA, Orme-Johnson WH, Walsh CT. Deazaflavin-reducing Hydrogenase from *Methanobacterium thermoautotrophicum*: II. Kinetic and Hydrogen Transfer Studies. Biochemistry 1987;26:4228-4236.
- Lamont GS, Fox JA, Cross GAM. Glycosyl-sn -12-dimyristylphosphatidylinositol is the Membrane Anchor for *Trypanosoma equiperdum* and *Trypanosoma (Nannomonas) congolense* Variant Surface Glycoproteins. Mol. Biochem. Parasitology 1987;24:131-136.
- Fox JA, Soliz NM, Saltiel AR. Purification of a Phosphatidylinositol Glycan-Specific Phospholipase C from Rat Liver Plasma Membranes; a Possible Target of Insulin Action. Proc. Nat. Acad. Sci. 1987;84:2663-2667.
- Clayton CE and Fox JA. Phosphorylation of Fructose Bisphosphate Aldolase in *Trypanosorna brucei*. Mol. Biochem. Parasitology 1989;26:131 136.
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- Eigenbrot C, Gonzalez T, Mayeda J, Carter P, Werther W, Hotaling T, Fox JA, Kessler J. X-ray Structures of Fragments from Binding and Non-binding Versions of a Humanized Anti-CD18 Antibody: Structural Indications of the Key Role of v_H residues 59-65. Proteins: Structure, Function, and Genetics 1994:18:49-62.
- Renz ME, Chiu HH, Jones S, Fox J, Kim KJ, Presta LG, Fong S. Structural Requirements for Adhesion of Soluble Recombinant Murine Vascular Cell Adhesion Molecule-1 to Alpha-4-Beta-1. J. Cell Biol. 1994;125:1395-1406.
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- Fox JA, Hotaling TE, Struble C, Ruppel J, Bates DJ, Schoenhoff MB. Tissue Distribution and Complex Formation with IgE of an Anti-IgE Antibody After

- Intravenous Administration in Cynomolgus Monkeys. J. Pharmacol. Exp. Ther. 1996;279: 1000-1008.
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- Sliwkowski MX, Lofgren J, Lewis GD, Hotaling TE, Fendly BM, Fox JA.

 Nonclinical Studies Addressing the Mechanism of Action of Trastuzumab (Herceptin®). Seminars in Oncology 1999;26:60-70.
- Kohne C, Johnson A, Tom S, Peers DH, Gehant RL, Hotaling TA, Brousseau D, Ryll T, Fox JA, Chamow S, Berman PW. Secretion of Glycosylation Site Mutants Can Be Rescued by the Signal/Pro Sequence of Tissue Plasminogen Activator. J Cellular Biochemistry;1999:446-461.
- Shields RL, Namenuk K, Hong K, Meng YG, Rae J, Briggs J, Xie D, Stadlen A, Fox JA, Presta LG. High Resolution Mapping of the Binding Site on Human IgG1 for Fc□RI, Fc□RII, Fc□RIII and FcRn and design of IgG1 variants with improved binding to the Fc□R. J. Biol Chem. 2001;276:6591-6604.
- Lawrence D, Shahrokh Z, Marsters S, Achilles K, Shih D, Mounho B, Hillan K, Totpal K, Deforge L, Schow P, Hooley J, Sherwood S Pai R, Leung S, Khan L, Gliniak B, Bussiere J, Smith CA, Kelley S, Fox JA, Thomas D, Ashkenazi A. Differential Hepatocyte Toxicity of Recombinant Apo2L/TRAIL Versions. Nature Medicine 2001;7:383-385.
- Kelley SK, Harris LA, Xie D, Deforge L, Totpal K, Bussiere J, Fox JA. Pre-clinical Studies to Predict the Disposition of Apo2L/TRAIL in Humans: Characterization of In Vivo Efficacy, Pharmacokinetics and Safety, J. Pharmacol Exp Ther. 2001;299:31-8.
- Allison DE, Gourlay SG, Koren E, Fox JA. Pharmacokinetics of rhuMAb CD18, a recombinant humanised monoclonal antibody fragment to CD18, in normal healthy human volunteers. Biodrugs. 2002;16:63-70.
- Xiang H, Fox JA, Lowe J, Totpal K, Escandon E. Enhanced tumor killing by Apo2L/TRAIL and CPT-11 co-treatment is associated with p21 cleavage and differential regulation of Apo2L/TRAIL ligand and its receptors, Oncogene. 2002;21:3611-3619.
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- Sarker D, Molife R, Evans TRJ, Hardie M, Marriott C, Butzberger-Zimmerli P

 Morrison R, Fox JA et al. A Phase I Pharmacokinetic and
 Pharmacodynamic Study of TKI258, an Oral, Multitargeted Receptor
 Tyrosine Kinase Inhibitor in Patients with Advanced Solid Tumors. Clin
 Cancer Res. 2008:14; 2075-2081.
- Alderson RF, Kreitman RJ, Chen T, Yeung P, Herbst R, Fox JA, Pastan I. CAT-8015: A Second-Generation Pseudomonas Exotoxin A-Based Immunotherapy Targeting CD22-Expressing Hematologic Malignancies. Clin Cancer Res. 2009:15; 832-839.
- Conroy A, Stockett DE, Deninzon K, Walker D, Arkin MR, Hoch U, Fox JA, Hawtin RE. SNS-032 is a potent and selective CDK 2, 7 and 9 inhibitor that drives target modulation in patient samples. Cancer Chemother Pharmacol. 2009: 64; 723-732.
- Chen R, Wierda WG, Chubb S, Hawtin RE, Fox JA, Keating MJ, Gandhi V, Plunkett W. Mechanism of action of SNS-032, a novel cyclin dependent kinase inhibitor, in chronic lymphocytic leukemia. Blood. 2009:113:19;4637-3645.
- Scatena CD, Kumer JL, Arbitrario JP, Howlett AR, Hawtin RE, Fox, JA, Silverman JA. Voreloxin, a first-in-class anticancer quinolone derivative, acts synergistically with cytarabine in vitro and induces bone marrow aplasia in vivo. Cancer Chemother Pharmacol. 2010: 66(5); 881-888.
- Advani RH, Hurwitz HI, Gordon MS, Ebbinghaus SW, Mendelson DS, Wakelee HA, Hoch U, Silverman JA, Havrilla NA, Berman CJ, Fox JA, Allen RS, Adelman DC. Phase 1 experience with voreloxin, a first- in- class anticancer quinolone derivative, in relapsed/refractory solid tumors: a report on two dosing schedules. Clin Cancer Res. 2010: 16(7); 2167-2175.
- Tong W-G, Chen R, Plunkett W, Siegel D, Sinha R, Harvey D, Badros AZ, Popplewell L, Coutre S, Fox JA, Mahadocon K, Chen T, Kegley P, Hoch U, Wierda WG. Phase I Study of SNS-032, a Potent and Specific Cdk2, 7 and 9 Inhibitor, in Patients with Advanced Chronic Lymphocytic Leukemia (CLL) and Multiple Myeloma (MM). J Clin Onc. 2010: 28(18); 3015-3022.

- Hawtin RE, Stockett DE, Byl J, McDowell RS, Tan N, Arkin, MR, Conroy A, Yang W, Osheroff N, Fox JA. Voreloxin is a novel naphthyridine cancer therapeutic that intercalates DNA and poisons topoisomerase II. PLoS One 2010: 5(4): e10186. doi:10.1371/journal.pone.0010186.
- Hawtin RE, Stockett DE, Wong OK, Lundin C, Helleday T, Fox JA. Homologous recombination repair is essential for repair of vosaroxin-induced DNA double-strand breaks. Oncotarget 2010: 1; 606-619.
- Lancet JE, Ravandi F, Ricklis RM, Cripe LD, Kantarjian HM, Giles FJ, List AF, Chen T, Allen RS, Fox, JA, Michelson GC, Karp JA. A phase 1b study of vosaroxin, an anticancer quinolone derivative, in patients with relapsed or refractory acute leukemia. Leukemia 2011: 12:1801-14.
- Stuart RK, Cripe LD, Maris MB, Cooper MA, Stone RM, Shaker RD, Turturro F, Stock W, Mason J, Shami PJ, Strickland SA, Costa LJ, Borthakur G, Michelson GC, Fox JA, Leavitt RD, Ravandi F. REVEAL-1, a phase 2 dose regimen optimization study of vosaroxin in older poor-risk patients with previously untreated AML, submitted 2014.

Published Patents

(WO/2001/078779) Antibody Alpha4beta7 Integrin And Its Use To Treat Inflammatory Bowel Disease.

(WO/2002/009755) APO-2L Receptor Agonist And CPT-11 Synergism.

(WO/2003/105757) Methods And Compositions For Milieu-Dependent Binding Of A Targeted Agent To A Target.

(WO/2005/058236) CAB Molecules.

(WO/2005/111078) ANTI-CEA scFv-Beta-Lactamase Contructs (CAB Molecules) in ADEPT.

(WO/2006/116076) TAB Molecules.

(WO/2010/099526) Methods Of Using SNS-595 For Treatment Of Cancer Subjects With Reduced BRCA2 Activity.

Selected Abstracts and Invited Presentations

- Pegram MD, Baly D, Wirth C, Gilkerson E, Slamon DJ, Sliwkowski MX., Bauer K, Fox JA. Antibody Dependent Cell-Mediated Cytotoxicity in Breast Cancer Patients in Phase III Clinical Trials of a Humanized Anti-HER2 Antibody. Proceedings American Association for Cancer Research 1997.
- Baly D, Wirth CM, Allison DE, Gilkerson E, Hotaling TE, Fox JA. Development and Characterization of a rhuMAb HER2 Antibody ADCC Assay for Clinical Evaluation of Cytotoxic Potency. Proceedings American Association for Cancer Research 1997;38:A181.
- Fox JA, Reitz B, Hagler K, Hsei V, Keller G, Ryan A, Schoenhoff MB and Widmer R.
 Pharmacokinetics and Clearance Mechanisms of Anti-IgE:IgE Monoclonal and Polyclonal
 Complexes. 1997 AAPS National Meeting, Invited Speaker.
- Fox JA. Anti-IgE Antibodies as Therapeutics for Allergic Disease. Advanced Research Seminar at 1998 AAAAI Meeting, Invited Speaker.
- Fox JA. DIA Workshop: "Applications of Pharmacokinetics/Safety Information in Drug Development and Regulatory Decisions" April 26, 2001, Washington, DC, invited speaker.
- Fox, JA. Haas Business School Bioentrepeneur Program. Invited Speaker, Clinical Trials Strategy. 2004.
- Bensinger W, Jagannath S, Becker P, Anderson K, Stadtmauer E, Aukerman L, Fox J, e Phase 1 Dose Escalation Study of a Fully Human, Antagonist Anti-CD40 Antibody, HCD122 (Formerly CHIR-12.12) in Patients with Relapsed and Refractory Multiple Myeloma. American Society of Hematology (ASH), 2006.
- Byrd JC, Flinn I, Khan KD, Kipps TJ, Aukerman L, Fox J, Girish S, Guzy S, Bilic S, Solinger A, Dort S, Wang Y, Hurst D, O'Brien S. Pharmacokinetics and Pharmacodynamics from a First-in-human Phase 1 Dose Escalation Study with Antagonist Anti-CD40 Antibody, HCD122 (Formerly CHIR-12.12), in Patients with Relapsed and Refractory Chronic Lymphocytic Leukemia. American Society of Hematology (ASH), 2006.
- Fox JA. The Emerging Era of Biomarkers: Yesterday, Today and Tomorrow. 7th Annual Phase 1 Clinical Trials IIR-USA, panelist, 2006.
- Fox JA. Case Study: Incorporation of Translational Medicine into Phase 1: A Phase 1 Study of SNS-595 in Advanced Acute Hematologic Malignancies. 8th IIR-USA Conference: Annual Establishing Proof of Concept in Phase 1; invited speaker, 2007.
- Fox JA. Compound Validation MMRC Support; Multiple Myeloma Research Foundation (MMRF) and the Multiple Myeloma Research Consortium (MMRC), Accelerating Drug Development: Progress Toward a Cure; invited speaker, 2007.
- Lancet J, Karp JE, Cripe LD, et al. Voreloxin (formerly known as SNS-595) in Combination with Cytarabine Demonstrates Preliminary Clinical Responses in a Phase 1 Study in Relapsed/Refractory Acute Myeloid Leukemia. Blood (ASH Annual Meeting Abstracts). 2008;112:1955.
- Robert F, Verschraegen C, Hurwitz H, Uronis H, Advani R, Chen A, Taverna P, Evanchik M, Hawtin R, Chen T, Wollman M, Fox J, Michelson G. A phase 1 trial of SNS-314, a novel and selective pan-aurora kinase inhibitor, in advanced solid tumors. J Clin Oncol. 2009: 27(15s); 2536.
- Lancet J, Karp J, Cripe L, Roboz G, Berman C, Conroy A, Hawtin R, Chen T, Mahadocon K, Fox J, Michelson G. Phase 1b/2 pharmacokinetic/ pharmacodynamic study of combination

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Last updated: 2/26/2014

Curriculum Vitae; Michael Foley, Ph.D.;

General Information:

Michael A. Foley, PhD

Work: Home:

Physical: BRB, East 69th Street, 16th floor

Mailing location: 1300 York Avenue, Box 11

430 East 63rd Street, Apt 7J

New York, NY 10065

New York, NY 10065 212-600-0134 Office: 646-962-6126

Mobile: 617-699-7366 Spouse: Jennifer Foley Email: mif2023@tritdi.org Daughter: Katharine Foley

Citizenship: United States of America

Date of birth: March 1, 1962

Education:

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR	FIELD OF STUDY
St. Norbert College; Green Bay, WI Utah State University; Logan, UT	B.S. M.S.	1984 1986	Chemistry Chemistry
Harvard University; Cambridge, MA	Ph.D.	1999	Chemistry

PROFESSIONAL EXPERIENCE

Tri-Institutional Therapeutics Discovery Institute, New York, NY 2014- present

Sanders Director of the Tri-Institutional Therapeutics Discovery Institute and the Sanders Innovation and Education Initiative

KDAC Therapeutics Inc. Founding Board member 2013- present

Broad Institute, Chemical Biology Platform, Cambridge, MA 2006 – 2013

Director, Chemical Biology Platform, Center for the Science of Therapeutics, Management Committee Member

Forma Therapeutics, Co-founder, Board Member 2007 – present

Co-founder and Vice President of Chemistry, Infinity Pharmaceuticals 2001-2006

Co-Founder, Board Member and Consultant, CombinatoRx, Inc 2001-2009

Last updated: 2/26/2014 1999-2001

Co-Founder, Harvard Institute of Chemistry and Cell Biology, Faculty appointment in Cell Biology

Chemist, Glaxo Wellcome, RTP, NC

1990 - 1999

Research Chemist, Bristol-Myers Squibb, Wallingford, CT

1987 - 1990

Peer Reviewed Publications:

Over, Björn; McCarren, Patrick; Artursson, Per; **Foley, Michael**; Giordanetto, Fabrizio; Grönberg, Gunnar; Hilgendorf, Constanze; Lee, Maurice; Matsson, Pär; Muncipinto, Giovanni; Pellisson, Melanie; Perry, Matthew; Svensson, Richard; Duvall, Jeremy; Kihlberg, Jan. Impact of Stereospecific Intramolecular Hydrogen-Bonding on Cell Permeability. *J. Med. Chem.* **Submitted** January 12, **2014**

Jason T. Lowe, Maurice D. Lee, IV, Lakshmi B. Akella, Emeline Davoine, Etienne J. Donckele, Landon Durak, Jeremy R. Duvall, Baudouin Gerard, Edward B. Holson, Adrien Joliton, Sarathy Kesavan, Berenice C. Lemercier, Haibo Liu, Jean-Charles Marié, Carol A. Mulrooney, Giovanni Muncipinto, Morgan Welzel-O'Shea, Laura M. Panko, Ann Rowley, Byung-Chul Suh, Meryl Thomas, Florence F. Wagner, Jingqiang Wei, Michael A. Foley, and Lisa A. Marcaurelle. Synthesis and Profiling of a Diverse Collection of Azetidine-Based Scaffolds for the Development of CNS-Focused Lead-like Libraries. J. Org. Chem., 2012, 77 (17), pp 7187–7211

Chris Dockendorff, Marek M. Nagiec, Michel Weïwer, Sara Buhrlage, Amal Ting, Partha P. Nag, Andrew Germain, Han-Je Kim, Willmen Youngsaye, Christina Scherer, Melissa Bennion, Linlong Xue, Benjamin Z. Stanton, Timothy A. Lewis, Lawrence MacPherson, Michelle Palmer, **Michael A. Foley**, José R. Perez, and Stuart L. Schreiber. <u>Macrocyclic Hedgehog Pathway Inhibitors:</u>

Optimization of Cellular Activity and Mode of Action Studies. *ACS Med. Chem. Lett.*, **2012**, *3* (10), pp 808–813

Richard W. Heidebrecht, Jr., Carol Mulrooney, Christopher P. Austin, Robert H. Barker, Jr., Jennifer A. Beaudoin, Ken Chih-Chien Cheng, Eamon Comer, Sivaraman Dandapani, Justin Dick, Jeremy R. Duvall, Eric H. Ekland, David A. Fidock, Mark E. Fitzgerald, **Michael A. Foley**, Rajarshi Guha, Paul Hinkson, Martin Kramer, Amanda K. Lukens, Daniela Masi, Lisa A. Marcaurelle, Xin-Zhuan Su, Craig J. Thomas, Michel Weïwer, Roger C. Wiegand, Dyann Wirth, Menghang Xia, Jing Yuan, Jinghua Zhao, Michelle Palmer, Benito Munoz, and Stuart Schreiber. <u>Diversity-Oriented Synthesis Yields a Novel Lead for the Treatment of Malaria</u>. *ACS Med. Chem. Lett.*, **2012**, *3* (2), pp 112–117

Raj, L., Ide, T., Gurkar, A.U., **Foley, M**., Schenone, M., Li, X., Tolliday, N.J., Golub, T.R., Carr, S.A., Shamji, A.F., Stern, A.M., Mandinova, A., Schreiber, S.L., Lee, S.W. Selective killing of cancer cell by a small molecule targeting the stress response to ROS. Nature, vol. 475, pp.231-234, July 14, 2011.

Marcaurelle, L.A., Comer, E., Dandapani, S., Duvall, J.R., Gerard, B., Kesavan, S., Lee, M.D., Liu, H., Lowe, J.T., Marie, J-C., Mulrooney, C.A., Pandya, B.A., Rowley, A., Ryba, T.D., Suh, B-C., Wei, J., Young, D.W., Akella, L.B., Ross, N.T., Zhang, Y-L., Fass, D.M., Reis, S.A., Zhao, W-N., Haggarty,

- S.J., Palmer, M., Foley, M.A. An Aldol-Based Build/Couple/Pair Strategy for the Synthesis of medium- and Large-Sized Rings: Discovery of Macrocyclic Histone Deacetylase Inhibitors. J. AM. Chem. Soc. **2010**, 132, 16962-16976.
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Tremblay, M.R., Nevalainene, M., Nair, SJ., Porter, J.R., Castro, A.C., Behnke, M.L., Yu, L., Hagel, M., White, K., Faia, K., Grenier, L., Campbell, M.J., Cushing, J., Woodward, C.N., Hoyt, J., Foley, M.A., Read, M.A., Sydor, J.R., Tong, J.K., Palombella, V.J., McGovern, K., Adams, J. Semi-Synthetic Cyclopamine Analogs as Potent and Orally Bioavailable Hedgehog Pathway Anatgonists J. Med. Chem. 51 (21) 6646-6649, 2008.

Michio Kuruso, James R. Porter, **Michael A. Foley**. An efficient synthesis of indane-derived bis(oxazoline) and its application to hetero Diels-Alder reactions on polymer support. Tetrahedron Letters 45 (2004) 145-148.

Borisy, A.A., Elliott, P.J., Hurst, N.W., Lee, M.S., Lehar, J., Price, E.R., Serbedzija, G., Zimmerman, G.R., **Foley, M.A.**, Stockwell, B.R., Keith, C.T. Systematic Discovery of Multi-component Therapeutics. Proc. Natl. Acad. Sci. USA. 2003 Jun 24; 100 (13): 7977-82.

Paul A. Clemons, Brian G. Gladstone, Abhi Seth, Elizabeth D. Chao, **Michael A. Foley**, Stuart L. Schreiber. Synthesis of Calcineurin-resistant Derivatives of FK506 and Selection of Compensatory Receptors. Chemistry and Biology, 9, 2002, 49-61.

Paul Clemons, Angela Koehler, Bridget K. Wagner, Timothy Sprigings, David Spring, Randall M. King Stuart L. Schreiber, and **Michael Foley A**. One-Bead, One-Stock Solution Approach to Chemical Genetics: Part 2. Chemistry and Biology, 8, 2001, 1167-1183.

Helen E. Blackwell, Lucy Perez, Robert Stavenger, John Tallarico, Elaine Cope-Eatough, **Michael A. Foley** Stuart L. Schreiber A One-Bead, One-Stock Solution Approach to Chemical Genetics: Part 1. Journal of the American Chemical Society Chemistry and Biology, 8, 2001, 1167-1183.

John A. Tallarico, Kris M. Depew, Nick J. Westwood, Henry E. Pelish, Craig W. Lindsley, Matthew D. Shair, Stuart L. Schreiber and **Michael A. Foley**. An Alkylsilyl-Tethered, High Capacity Solid Support Amenable to One Compound - One Encoded Bead Diversity Oriented Synthesis. Journal of Combinatorial Chemistry, 3, 2001, 312-318.

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- Poindexter, G. S.; **Foley, M. A.**; Macdonald, J. E.; Sarmiento, J. G.; Bryson, C.; Goggins, G. D.; Cavanagh, R. L.; Buyniski, J. P. Isosteric Replacement in a Series of Beta-Substituted Monophosphonate Calcium-Antagonists. Bioorganic & Medicinal Chemistry Letters 1993, 3, 2817-2820.
- Poindexter, G. S.; **Foley, M. A.**; Licause, J. F. Metalation of 1,4-Dihydropyridine Esters. Tetrahedron Letters 1989, 30, 3393-3396.
- Poindexter, G. S.; Foley, M. A.; Licause, J. F. Metalation of Hantzsch Dihydropyridines. Abstracts of Papers of the American Chemical Society 1988, 196, 334-ORGN.
- **Foley, M. A.**; Hassman, A. S.; Drewry, D. H.; Greer, D. G.; Wagner, C. D.; Feldman, P. L.; Bennan, J.; Bickett, D. M.; McGeehan, G. M.; Lambert, M. H.; Green, M. Rapid synthesis of novel dipeptide inhibitors of human collagenase and gelatinase using solid phase chemistry. Bioorganic & Medicinal Chemistry Letters 1996, 6, 1905-1910.
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Last updated: 2/26/2014

Non-Peer Reviewed Publications:

St. Norbert College Magazine, March 27, 2013. http://www.snc.edu/magazine/2013spring/foley.html

Patents:

US8349832B2

COMPOUNDS AND COMPOSITIONS FOR TREATING CANCER

Inventors: Michael Andrew Foley, Chestnut Hill, MA (US); Robert Gould, Beverly, MA (US); Peter Elliott, Marlboro, MA (US); Anna Mandinova, Newton, MA (US)

US8318737B2

COMPOUNDS AND COMPOSITIONS FOR TREATING CANCER

Inventors: Michael Andrew Foley, Chestnut Hill, MA (US); Robert Gould, Beverly, MA (US); Peter Elliott, Marlboro, MA (US); Anna Mandinova, Newton, MA (US); Sam Lee, Newton, MA (US)

US8236956B2

CYCLOPAMINE ANALOGUES AND METHODS OF USE THEREOF

Inventors: Julian Adams, Boston, MA (US); Alfredo C. Castro, Winchester, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Somarajan Nair, Belmont, MA (US); Marta Nevalain, Quincy MA (US); James Porter Brighton, MA (US); Martin Tremblay, Melrose, MA (US)

US8080553B2

METHODS AND REAGENTS FOR THE TREATMENT OF IMMUNOINFLAMMATORY DISORDERS

Inventors: Curtis Keith, Boston, MA (US); Alexis Borisy, Arlington, MA (US); Grant R. Zimmermann, Somerville, MA (US); Edward Roydon Jost-Price, West Roxbury, MA (US); Palaniyandi Manivasakam, West Roxbury, MA (US); Nicole Hurst, Boston, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Michael S. Slavonic, Quincy, MA (US); Brendan Smith, Somerville, MA (US); Benjamin A. Auspitz, Cambridge, MA(US)

US7915265B2

COMBINATIONS FOR THE TREATMENT OF IMMUNOINFLAMMATORY DISORDERS Inventors: Curtis Keith, Boston, MA (US); Alexis Borisy, Arlington, MA (US); Grant Zimmermann, Somerville, MA (US); Edward Roydon Jost-Price, West Roxbury, MA (US); Palaniyandi Manivasakam, West Roxbury, MA (US); Nicole W. Hurst, Boston, MA (US); Michael A. Foley, Chestnut Hill, MA(US)

US7875628B2

CYCLOPAMINE ANALOGUES AND METHODS OF USE THEREOF

Inventors: Julian Adams, Boston, MA (US); Alfredo C. Castro, Winchester, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Somarajannair Janardanannair, Woburn, MA (US); Marta Nevalainen, Quincy, MA (US); James R. Porter, Rowley, MA (US); Martin R. Tremblay, Melrose, MA (US)

US7851637B2

COMPOUNDS AND METHODS FOR INHIBITING THE INTERACTION OF BCL PROTEINS WITH BINDING PARTNERS

Inventors: Alfredo C. Castro, Winchester, MA (US); Wei Deng, Lexington, MA (US); Kristopher M. Depew, Acton, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Christian C. Fritz, Natick, MA (US); Asimina T. Georges Evangelinos, Andover, MA (US); Michael J. Grogan, Arlington, MA (US); Nafeeza Hafeez, West Roxbury, MA (US); Edward B. Bolson, Newton Highlands, MA (US); Brian T. Hopkins, Brookline, MA (US); Nii O. Koney, Somerville, MA (US); Tao Liu, Ashland, MA (US); David A. Mann, Swampscott, MA (US); Lisa A. Marcaurelle, Arlington, MA (US); Daniel A. Snyder, Cambridge, MA (US); Dennis J. Underwood, Jamaica Plain, MA (US); Andrew A. Wylie, Brookline, MA (US); Lin-Chen Yu, Wollaston, MA (US); Lin ping Zhang, Lexington, MA (US)

US7407967B2

CYCLOPAMINE ANALOGUES AND METHODS OF USE THEREOF

Inventors: Julian Adams, Boston, MA (US); Alfredo C. Castro, Winchester, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Somarajan Nair Janardanan Nair, Belmont, MA (US); Marta Nevalainen, Quincy, MA (US); James R. Porter, Brighton, MA (US); Martin R. Tremblay, Melrose, MA (US)

US7253155B2

COMBINATIONS FOR THE TREATMENT OF IMMUNOINFLAMMATORY DISORDERS Inventors: Curtis Keith, Boston, MA (US); Alexis Borisy, Boston, MA (US); Grant Zimmerman, Somerville, MA (US); Edward Roydon J ost-Price, West Roxbury, MA (US); Palaniyandi Manivasakam, Brighton, MA (US); Nicole Hurst, Boston, MA (US); Michael A. Foley, Chestnut Hill, MA (US)

US7230004B2

CYCLOPAMINE ANALOGUES AND METHODS OF USE THEREOF

Inventors: Julian Adams, Boston, MA (US); Alfredo C. Castro, Winchester, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Somarajan Nair Janardanan Nair, Belmont, MA (US); Marta Nevalainen, Quincy, MA (US); James R. Porter, Brighton, MA (US); Martin R. Tremblay, Melrose, MA (US)

US7148216B2

COMBINATIONS OF DRUGS FOR THE TREATMENT OF NEOPLASTIC DISORDERS Inventors: Alexis Borisy, Boston, MA (US); Curtis Keith, Boston, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Brent R. Stockwell, Boston, MA (US)

US7109377B2

SYNTHESIS OF COMBINATORIAL LIBRARIES OF COMPOUNDS REMINISCENT OF NATURAL PRODUCTS

Inventors: Stuart L. Schreiber, Boston, MA (US); Matthew D. Shair, Somerville, MA (US); Derek S. Tan, Rochester, NY (US); Michael A. Foley, Somerville, MA (US); Brent R. Stockwell, Boston, MA (US)

US6846816B2

COMBINATIONS OF DRUGS FOR THE TREATMENT OF NEOPLASTIC DISORDERS Inventors: Alexis Borisy, Boston, MA (US); Curtis Keith, Boston, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Brent R. Stockwell, Boston, MA (US)

US6693125B2

Last updated: 2/26/2014

COMBINATIONS OF DRUGS (E.G., A BENZIMIDAZOLE AND PENTAMIDINE) FOR THE TREATMENT OF NEOPLASTIC DISORDERS

Inventors: Alexis Borisy, Boston, MA (US); Curtis Keith, Boston, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Brent R. Stockwell, Boston, MA (US)

US6569853B1

COMBINATIONS OF CHLORPROMAZINE AND PENTAMIDINE FOR THE TREATMENT OF NEOPLASTIC DISORDERS

Inventors: Alexis Borisy, Boston, MA (US); Curtis Keith, Boston, MA (US); Michael A. Foley, Chestnut Hill, MA (US); Brent R. Stockwell, Boston, MA (US)

US6448443B1

SYNTHESIS OF COMBINATORIAL LIBRARIES OF COMPOUNDS REMINISCENT OF NATURAL PRODUCTS

Inventors: Stuart L. Schreiber, Boston; Matthew D. Shair, Somerville, both of MA (US); Derek S. Tan, Rochester, NY (US); Michael A. Foley, Somerville; Brent R. Stockwell, Boston, both of MA (US)

US5252560

CYCLIC IMIDE DERIVATIVES, COMPOSITIONS AND USE

Inventors: Peter L. Myers, Chapel Hill; Andrew B. McElroy, Durham, both of N.C.; Michael Gregson, Greenford, Great Britain; Peter J. Brown, Chapel Hill, N.C.; Howard G. Davies, Greenford, Great Britain; David H. Drewry, Durham; Michael A. Foley, Chapel Hill, both of N.C.



CANCER PREVENTION AND RESEARCH INSTITUTE OF TEXAS

Oversight Committee Nominations Subcommittee

Peer Review Panel Nominations

Prevention

Michael Holtz, APR

Award-winning communications professional with 17 years of experience in media advocacy, federal and grassroots issues management, and public relations.

4557 Twin Pines Drive | Knoxville, TN 37921 | michael_a_holtz@yahoo.com | mobile: 865.414.3191

Summary of Qualifications

- Seventeen years of public and government relations experience, including 12 years in the non-profit sector, and five years in the health care sector.
- Develop relationships and network with internal and external publics to expand contacts, cultivate relationships, and meet organizational goals and objectives.
- Deploy successful grassroots and media campaigns using traditional and social media tactics.

Professional Experience

ASSOCIATE DIRECTOR, MEDIA ADVOCACY – SOUTH REGION | American Cancer Society Cancer Action Network, Inc. | January 2013 – Present | Knoxville, Tenn.

- Provide strategic support and counsel for state legislative initiatives in fourteenstate
- Lead successful media campaigns on a wide array of federal and state issues, including research and cancer screening program funding, smoke-free workplace laws, tobacco tax increases, and health care reform.
- Work with government relations directors, grassroots staff and volunteers to create tactics that put pressure on elected officials.
- Train volunteers and staff to deliver messages to a variety of publics, including legislators, the media, the general public and other advocates.
- Served as Mid-South Division Media Advocacy Director from March 2008-December 2013 before being promoted; and Media Advocacy Specialist from December 2006 to March 2008 before being promoted.

COMMUNICATIONS & MARKETING SPECIALIST | American Cancer Society | July 2002 – December 2006 | Knoxville, Tenn.

- Provided marketing and communications support to four East Tennessee offices.
- Worked directly with contacts at newspapers, television stations and radio stations to promote organizational initiatives and fund-raising events.
- Trained volunteers to be media spokespersons, and led staff and volunteer trainings to help answer difficult questions about the organization.

MARKETING & PUBLIC RELATIONS SPECIALIST | St. Mary's Health System | September 1998 – July 2002 | Knoxville, Tenn.

- Developed and managed aggressive earned media program and maintained positive relationships with news media to obtain publicity for the health system.
- Produced collateral materials, including the annual physicians directory, monthly newsletter, brochures, newspaper ads and internal videos.
- Served as the health system Public Information Officer.

Education and Training

- Accredited in Public Relations | Public Relations Society of America | August 2009
- M.S. Communications | University of Tennessee | December 1998
- B.A. Mass Communication | University of Wisconsin-Milwaukee | May 1992

Recognition

- Grassroots Advocacy Professional of the Year | American Cancer Society Cancer Action Network, Inc. | 2012
- Award of Excellence for Non-Profit Government Relations Campaign | Volunteer
 Chapter PRSA | Federal Research Funding Support Campaign | 2012
- Award of Excellence for Non-Profit Government Relations Campaign | Volunteer Chapter PRSA | Alabama Breast and Cervical Cancer Early Detection Program Funding Crisis | 2011
- Inaugural Make Your Mark Award | American Cancer Society Mid-South Division,
 Inc. | 2005
- Associate Commendation of Excellence Award | American Cancer Society Mid-South Division, Inc. | 2005
- Sixteen additional professional recognition and community service awards.

Community Service

- President-Elect | Volunteer Chapter PRSA | January 2013
- Coach | Leukemia and Lymphoma Society Team in Training Program | 2012-13
- Social Media Chair | Covenant Health Knoxville Marathon | 2012-13
- Chair | Volunteer Chapter PRSA Annual "V" Awards Gala | April 2013
- Presenter | "How to Make Facebook Work for Non-Profit Organizations" | Social Media Jam presented by the Knox County Health Department | January 2013
- Presenter | "Government Detailing and the Impact on Colon Cancer Screening" |
 Colon Cancer Alliance | December 2012
- Ethics Chair | Volunteer Chapter PRSA Board of Directors | 2011
- Presenter | "Media Advocacy Training and Best Practices" | American Cancer Society Cancer Action Network Advocacy Leadership Summit and Lobby Day | 2009 and 2010
- Presenter | "Earned Media Best Practices" | National Highway Transportation and Safety Administration Annual Marketing Forum | 2007
- Auction Chair/Cast Member | ETSPJ Annual Front Page Follies | 2006 and 2007
- President | East Tennessee Chapter JRDF Board of Directors | 2000 2002
- Public Relations Chair | East Tennessee Chapter JRDF | 1998 2000
- President | Farragut-West Knox Chamber of Commerce Board of Directors |
 1999 2000

Filmography

 The Next | Winner, Audience Choice Award for Short Film | Knoxville Horror Film Festival | 2010

Curriculum Vitae

MARCUS PLESCIA MD, MPH

January 21, 2014

PERSONAL INFORMATION

Mecklenburg County Health Department 249 Billingsley Road Charlotte, NC 28211 (704) 336 2299 Marcus.Plescia@mecklenburgcountync.gov

Born: November 19, 1962. Tallahassee, Florida

Married: Ruth Ann Grissom

Home Address: 189 Westminster Dr. NE,

Atlanta, GA 30309 (919) 740-2618 cell (404) 872-0602 home marcusplescia@bellsouth.net

EDUCATION AND TRAINING

University of North Carolina at Chapel Hill **Fellowship in Academic Family Medicine** 1996-1997

Montefiore Medical Center, Bronx, NY

Residency Program in Social Medicine: Family Practice 1990-1993

University of North Carolina at Chapel Hill **Doctor of Medicine** May 1990 **Master of Public Health** August 1989 **Bachelor of Science in Biology** May 1984

EMPLOYMENT HISTORY

Mecklenburg County Health Department

Director

February 2014-present

- Lead a metropolitan health department with 500 employees and a budget of \$50 million
- Oversee core activities in environmental health, school health, community services and clinical services
- Oversee the collection and monitoring of all community vital statistics
- Serve as health policy advisor to the board of county commissioners
- Oversee state contract to provide NBCCEDP services
- Represent the county with the NC Division of Public Health
- Serve as primary liaison to the local health care system

Centers for Disease Control and Prevention, Atlanta GA **Director**, Division of Cancer Prevention and Control July 2009-present.

- Lea a national program with 185 employees and a \$330 million budget.
- Directed all scientific, policy, and programmatic issues related to four national grant programs provided to US states, tribes and territories to promote cancer screening, provide cancer screening services, operate state cancer registries and support state cancer planning efforts.
- Led a program of cancer research focused on surveillance and health services research.
- Oversaw the National Program of Cancer Registries which compiles surveillance data on cancer incidence and publishes US cancer statistics annually.
- Directed the use of federal appropriations to develop public health interventions for prostate, skin and gynecologic cancers.
- Coordinated activities of two federal advisory committees on breast cancer.
- Served as primary liaison for the Centers for Disease Control to the National Cancer Institute and the American Cancer Society.
- Provided periodic patient care in Indian Health Service facilities.

EMPLOYMENT HISTORY (Continued)

North Carolina Division of Public Health, Raleigh NC

Chief, Chronic Disease and Injury Section

November 2003-July 2009

- Led a state program which includes 150 employees and a \$30 million budget.
- Directed the program planning, policy and evaluation efforts for nine state and federally funded public health programs and the State Center for Health Statistics.
- Served on the senior leadership team for the NC Division of Public Health.
- Provided oversight for the state Advisory Committee for Cancer Control, NC cancer registry, state cancer assistance program and the NC Breast and Cervical Cancer Screening program
- Coordinated activities of three legislative task forces and served as policy advisor to appointed members.
- Provided technical assistance and guidance to state agencies and local health departments on chronic disease prevention and control.
- Served as Division liaison to the North Carolina Medical Society, NC Academy of Family Medicine and Blue Cross Blue Shield of NC.
- Provided patient care in local health department facilities.

Carolinas Medical Center Department of Family Medicine, Charlotte NC

Assistant Residency Director

September 1998-November 2003

Principal Investigator, CDC REACH 2010

October 1999-November 2003

Carolinas Healthcare System

Alternate Medical Director for Mecklenburg County

September 1997-November 2003

- Developed and led the CDC Racial and Ethnic Approaches to Community Health (REACH 2010) grant in Charlotte NC, a \$7 million community demonstration project to improve health disparities in an African American community.
- Started and managed a satellite residency training program which includes six family medicine residents in an eight physician community health center serving an urban underserved community.
- Served as medical consultant for a \$3.3 million HRSA-funded regional, community health assessment project.
- Developed and supervised a cervical cancer diagnostic clinic (colposcopy) at Mecklenburg County Health Department.
- Provided primary medical care to medically underserved patients in hospital, health department and primary care settings.
- Periodically assisted Mecklenburg County Health Department. Served as a media contact, supervised health department clinicians, advised the Health Director, supported infectious disease nurses and attended meetings of the epidemiology and regional surveillance teams.

EMPLOYMENT HISTORY (Continued)

Montefiore Medical Center Department of Family Medicine, Bronx NY **Medical Director, Care for the Homeless Team** July 1993-July 1995

- Supervised a medical team of three nurse practitioners providing clinical care in diverse community settings in New York City.
- Provided primary medical care in a hospital and community health center setting.
- Served as medical student rotation coordinator at a community health center.

ACADEMIC APPOINTMENTS

University of North Carolina School of Medicine, Chapel Hill, NC Adjunct Associate Professor 2004-present Clinical Associate Professor 2003
Clinical Assistant Professor 1995-2002

CREDENTIALS/LICENSURE

Diplomate: American Board of Family Practice, 1993.

Recertification: 1999, 2005

Medical License: NC 95-01062 (1995-present), NY 188880 (1992-1995)

HONORS, AWARDS AND FELLOWSHIPS

Eugene Meyer Traveling AHEC Fellowship, NC AHEC

Awarded to study General Practice/Public Health partnerships in the National Health Service

September 2000. \$3000

David Citron Award UNC statewide Department of Family Medicine, 2000 Outstanding Junior Faculty in Family Medicine in North Carolina.

Family Practice Directors Award Montefiore Medical Center, 1995 Junior Faculty of Distinction.

Cecil Sheps Award in Social Medicine UNC School of Medicine, 1990 Awarded to the member of each class who demonstrates outstanding scholarship and commitment in the field of social medicine.

Delta Omega National Public Health Honor Society, 1989

International Fellowship UNC Department of Social Medicine Awarded to study community oriented primary care in Kenya, 1988. \$2000. Awarded to study primary care in Great Britain, 1986. \$1200.

Phi Beta Kappa, 1984

PROFESSIONAL SERVICE

Professional Societies and Appointments

C-Change 2009-present
Mission, Strategy and Implementation Committee, 2010-present
Prevention and Early Detection Subcommittee, 2009-present

National Institute of Environmental Health Sciences Federal Advisory Committee on Breast Cancer and the Environment 2010-2012

North Carolina Institute of Medicine 2008-present

National Association of Chronic Disease Directors. 2003-2009 President 2008 Board of Directors, 2006-2009 Co-Chair Policy Committee, 2006-2009

North Carolina Medical Society. 1996-2010 Board of Directors, 2008-2009 Leadership Academy, 2005-2006 Family and Public Health Committee, 2003-2009 Chair 2006-2008

American Academy of Family Physicians. 1992-present NC Chapter, Government Relations Committee 2006-2009

Society of Teachers in Family Medicine. 1996-2003 Group on Community Medicine. 1995-2003

American Public Health Association. 1991-present

Manuscript Reviewer

Preventing Chronic Disease American Journal of Public Health Journal of Family Practice

GRANTS FUNDED

Centers for Disease Control and Prevention

Cooperative Agreements to support multiple chronic disease categorical programs in the North Carolina Division of Public Health, Chronic Disease and Injury Section Annual funding ~\$15,000,000.

Centers for Disease Control and Prevention

Principal Investigator: Racial and Ethnic Approaches to Community Health 2010, Implementation Project. "Community Mobilization for Cardiovascular Health." October 2000-September 2007. \$6,896,000. 40% FTE: 2000-2003

Charlotte-Mecklenburg Health Services Foundation, Inc.

Funding for third year resident project to implement and evaluate a Church-based nutrition intervention in the Northwest Corridor community. 2001. \$16,585.

Centers for Disease Control and Prevention

Principal Investigator: Racial and Ethnic Approaches to Community Health 2010, Demonstration Project. "Community Mobilization for Cardiovascular Health." October 1999-September 2000. \$243,889. 40%FTE.

Health Resources and Services Administration.

Consultant: Carolinas Community Health Institute Funded through the Rural Health Outreach Program September1998-October 2004. 3,310,000. 10% FTE

Charlotte-Mecklenburg Health Services Foundation, Inc.

Funding for third year resident project to implement and evaluate community walking clubs in the Northwest Corridor communities. 1998. \$10,503.

Charlotte-Mecklenburg Health Services Foundation, Inc.

Funding for a community assessment survey for the Northwest Corridor Community-Oriented Primary Care project. 1997. \$14,832.

PUBLICATIONS

Peer Reviewed

Henley SJ, Roland K, Grossman M, White M, Plescia M. Opportunities to prevent cancer by reducing alcohol use among U.S. adults. In Review: Preventing Chronic Disease.

Guy G, Richardson L, Pignone M, Plescia M. Costs and Benefits of an Organized FIT-based Colorectal Cancer Screening Program in the United States. In Press: Cancer

Plescia M, Henley J, Pate A, Underwood JM, Rhodes K. Lung cancer deaths among American Indians and Alaska Natives, 1999-2009. In Press: American Journal of Public Health.

Espy D, Jim M, Cobb N, Bartholomew M, Becker T, Haverkamp D, Plescia M. Leading causes of death and all-cause mortality in American Indians and Alaska Natives. In Press: American Journal of Public Health.

Plescia M, White M. The National Prevention Strategy: Applying Scientific Evidence to Expand Mammography Utilization. American Journal of Public Health. 2013:103(9);1545-1548.

Seeff LC, DeGroff A, Joseph DA, Royalty J, Tangka FKL, Nadel M, Plescia M. Moving Forward: Using the Experience of CDCs' Colorectal Cancer Screening Demonstration Program to Guide Future Colorectal Cancer Programming Efforts. Cancer. 2013:119(15);2940-2946.

Wilkes M, Srinivasan M, Cole G, Tardif R, Richardson LC, Plescia M. Discussing Uncertainty and Risk in Primary Care: Recommendations of a Multi-Disciplinary Panel Regarding Communication Around Prostate Cancer Screening. J Gen Intern Med. 2013: DOI: 10.1007/s11606-013-2419-z

Donahue KE, Newton WP, Lefabvre A, Plescia M. The Natural History of Practice Transformation: Development and Initial Testing of an Outcomes Based Model. Annals of Family Medicine. 2013:11(3);212-219.

Eheman C, Henley SJ, Ballard-Barbash R, Jacobs EJ, Schymura MJ, Noone A, Pan L, Anderson RN, Fulton JE, Kohler BA, Jemal A, Ward E, Plescia M, Ries LAG, Edwards BK. Annual Report to the Nation on the Status of Cancer, 1975-2008, Featuring Cancers Associated With Excess Weight and Lack of Sufficient Physical Activity. Cancer. 2012 118(9):2338-66.

Plescia M, Wansink D, Waters HR, Malek S. Medical Costs of Second Hand Smoke Exposure in North Carolina. North Carolina Medical Journal. 2011:72(1);7-12.

Peer Reviewed Publications (continued)

Downie DL, Schmid D, Plescia M. Do Treatment Differences Explain Racial Disparities in Blood Pressure Control? Analysis of a Medicaid Population. Preventing Chronic Disease. 2011;8(3). http://www.cdc.gov/pcd/issues/may/10_0070.htm.

Young S, Halladay J, Plescia M. Personnel Policy Creates Support for State Employee Worksite Wellness Programs in North Carolina. Preventing Chronic Disease. 2011;8(2); http://www.cdc.gov/pcd/issues/2011/mar/10_0069.htm

Henley SJ, King JB, German RR, Richardson LC, Plescia M. Surveillance of Screening-Detected Cancers-United States, 2004-2006. MMWR Surveillance Summary. November 26, 2010:59(SS-9):1-25

Donahue K, Plescia M. Clinical Inquiry: Do standing orders improve outcomes for chronic disease control in ambulatory practice? Journal of Family Practice. 2010;59(4):226-227.

Porterfield DS, Reaves J, Konrad TR, Weiner BJ, Garrett JM, Davis M, Dickson CW, Plescia M. Assessing local health department performance in diabetes prevention and control-North Carolina, 2005. Preventing Chronic Disease 2009;6(3). http://www.cdc.gov/pcd/issues/2009/jul/08_0130.htm.

Plescia M, Groblewski M, Chavis L. A Lay Health Advisor Program to Promote Community Capacity and Change. Health Promotion Practice. 2008:9(4):434-439.

Plescia M, Herrick H, Chavis L. Health Behavior Changes in an African American Community: The Charlotte Racial and Ethnic Approaches to Community Health Project. American Journal of Public Health. 2008:98(9):1678-1685.

Buescher PA, Whitmire JT, Plescia M. Relationship between body mass index and medical care expenditures for North Carolina adolescents enrolled in Medicaid in 2004. Preventing Chronic Disease. 2008;5(1). http://www.cdc.gov/pcd/issues/2008/jan/06_0131.htm.

Scheid TL, Joyner DR, Plescia M, Steps to a Negotiated Consensus: A Framework for Developing Community Health Initiatives. Research in the Sociology of Health Care. 2006;24:235-257.

DeBate RD; Plescia M. I could live other places, but this is where I want to be: Support for natural helper initiatives. International Quarterly of Community Health Education, 2005;23(4):343-355.

Peer Reviewed Publications (continued)

Plescia M; Young S; Ritzman R. Statewide Community_Based Health Promotion: A North Carolina Model to Build Local Cacpacity for Chronic Disease Prevention. Preventing Chronic Disease [serial online] October 2005. http://www.cdc.gov/pcd/issues/2005/oct/05_0020.htm.

Plescia M; Malek S; Shopland D et al. Protecting Workers from Secondhand Smoke in North Carolina. North Carolina Medical Journal. North Carolina Medical Journal May/June 2005;66(3):186-191.

Plescia M, Leach L, Meriwether R. Clinical Inquiry. What are the Medical Contraindications to vaccination? Journal of Family Practice. 2005 Jul; 54(7):621-3.

Coeytaux, R; Gillespie, H; Callahan, L; Kaufman, J; Plescia, M; Williams, C; Sloane, P. Racial Disparities in Health between White and African American Family Practice Patients: Clinical Implications. NC Medical Journal. November/December 2004;65(6):330-334.

Plescia, M; Scheid T; Joyner D. A Regional Health Care System Partnership with Local Communities to Impact Chronic Disease. Preventing Chronic Disease [serial online] October2004. http://www.cdc.gov/pcd/issues/2004/oct/04_0020.htm.

Plescia M, Joyner DR, Scheid TL. A regional health care system partnership with local communities to impact chronic disease. Preventing Chronic Disease (serial online) October 2004. http://www.cdc.gov/pcd/issues/2004/oct/04_0020.htm.

Debate, R; Plescia, M; Joyner D; Spann, LP. A Qualitative Assessment of Charlotte REACH: An Ecological Perspective for Decreasing CVD and Diabetes Among African-Americans. Ethnicity and Disease. Summer 2004;14(3S1):77-82.

Plescia M and Leach L. Clinical Inquiry. Should Varicella Vaccine be Given to all Children? Journal of Family Practice. June 2004; 53(6):271-273.

Plescia. M; Groblewski, M. . A Community Oriented Primary Care Demonstration Project: Refining Interventions for Cardiovascular Disease and Diabetes. Annals of Family Medicine. March/April 2004;2(2):103-109.

Plescia, M; Konen, JC; Lincourt A. The State of Community Medicine Training in Family Medicine. Family Medicine March 2002;34(3):177-82.

Plescia, M; Koontz, S; and Laurent, S. Community assessment in a vertically-integrated health care system. American Journal of Public Health. May 2001;91(5):811-814.

Peer Reviewed Publications (continued)

Goldberg, J; Plescia, M; and Anastasio, G. RU 486 (Mifepristone): Current Knowledge and Future Prospects. Archives of Family Medicine. May/June 1998; 7:219-222.

Plescia, M; Watts, R; Neibacher, S; and Strelnick, A. A multi-disciplinary health care outreach team to the homeless: The 10-year experience of the Montefiore Care for the Homeless Team. Family and Community Health. July 1997, 58-69.

Mauldin SK, Plescia M, Richard FA, Wyrick SD, Voysksner RD, Chaney SG. Displacement of the Bidentate Malonate Ligand from (d,l-trans-1,2-diaminocyclohexane) Malonatoplatinum (II) by Physiologically Important Compounds in Vitro. Biochemical Pharmacology 1988;37:3321-3333.

Mauldin SK, Richard FA, Plescia M, Wyrick SD, Sancar A, Chaney SG. High-performance liquid chromatographic separation of platinum complexes containing the cis-1,2-diaminocyclohexane carrier ligand. Anal Biochem. 1986 Aug 15;157(1):129-43.

Surveillance Reports

Henley SJ, Richards TB, Underwood M, Eheman CR, Plescia M, McAfee T, Lung Cancer Incidence Trends Among Men and Women by Age, United States, 2005–2009. In Review: MMWR.

Klabunde CN, Joseph DA, King JB, White A, Plescia M. Vital Signs: Colorectal Cancer Screening Test Use - United States, 2012. MMWR. November 8, 2013 / 62(44);881-888

Kronin KA, Richardson LC, Henley SJ, Miller JW, Thomas CC, White A, Plescia M. Vital Signs: Racial Disparities in Breast Cancer Severity — United States, 2005–2009. November 16, 2012 / 61(45);922-926

Holman DM, Hartman AM, Perna FM, Berkowitz Z, Guy GP, Saraiya M, Plescia M. Trends in the prevalence of sunscreen use, other sun protective behaviors, and sunburn among adults aged 18-29 years—United States, 2000-2010. MMWR. May 11, 2012:61(18); 317-322.

Guy GP, Hartman AM, Holman DM, Saraiya M, Plescia M. Use of Indoor Tanning Devices by Adults in the United States, 2010. MMWR. May 11, 2012:61(18); 323-326.

Coleman King S, Klabunde CN, Brown M, Ballard-Barbash R, White MC, Thompson T, Plescia M, Cancer Screening-United States 2010. MMWR: January 27, 2012 / 61(03);41-45

Henley J, Eheman C, Richardson L, Plescia M, et al State-Specific Trends in Lung Cancer Incidence and Smoking — United States, 1999–2008. MMWR. September 16, 2011: 60(36);1243-1247.

Richardson LC, Tai E, Rim SH, Joseph D, Plescia M. Vital Signs: Colorectal Cancer Screening, Incidence and Mortality-United States, 2002-2010. MMWR. July 8 2011:60(26);884-889

Richardson LC, Rim SH, Plescia M. Vital Signs: Colorectal cancer screening among adults aged 50-75 years-United States, 2008. MMWR. July 6 2010:59(26);808-812

Richardson LC, Rim SH, Plescia M. Vital Signs: Breast cancer screening among women aged 50-74 years-United States, 2008. MMWR. July 6 2010:59(26);813-816

Commentaries

Plescia M, Wong F, Pieters J, Joseph D. Future of the NBCCEDP in a Changing Healthcare Environment. In Review: Cancer

Bauer U, Plescia M. Addressing disparities in the health of American Indian and Alaskan Native people: The importance of improved public health data. American Journal of Public Health. In Press.

Plescia M, White MC. The National Prevention Strategy: Applying Scientific Evidence to Expand Mammography Utilization. American Journal of Public Health. http://ajph.aphapublications.org/doi/pdf/10.2105/AJPH.2013.301305

Plescia M, Richardson L, Joseph D. New Roles for Public Health in Cancer Screening. CA. 2012:64(4);217-219

Joseph DA, Degroff AS, Hayes NS, Wong FL, Plescia M. The Colorectal Cancer Control Program: Partnering to Increase Population Level Screening. Gastrointestinal Endoscopy 2011:73(11);429-434.

Belle Isle L, Plescia M, La Porta M, Shepherd W. In Conclusion, Looking to the Future of Comprehensive Cancer Control. Cancer Causes and Control. 2010:21;2049–2057

Plescia M, Bell A. A Cancer Policy Agenda for North Carolina. Invited Commentary. Special Issue on Cancer in North Carolina. North Carolina Medical Journal. 2008:69(4);289-292.

Plescia M, Engel J. Into the Future, Public Health Data Needs in a Changing State. Invited Commentary, Special Issue on Data and Health Policy. North Carolina Medical Journal. 2008:69(2):167-169.

Plescia M, Newton-Ward M. Increasing the Public's Awareness: The Importance of Patient-Practitioner Communication. Invited Commentary. Special Issue on Effective Patient-Practitioner Communication. North Carolina Medical Journal. 2007;68(5):346-348.

Devlin L, Plescia M. The Public Health Challenge of Obesity in North Carolina North Carolina Medical Journal. Invited Commentary, Special Issue on Childhood Obesity. July/August 2006;67(4):278-282.

Mensah G, Perdue WC, Plescia M, Stroup DF. Legal Frameworks for Chronic Disease Prevention. Journal of Law, Medicine and Ethics. Winter 2004; 32SS(4):35-37

Plescia, M. British Health Care. FAX: A Journal of Student Inquiry (UNC School of Medicine Research Publication) Spring 1987;2:41-43.

Book Chapters

Plescia, M; Watts, R; Neibacher, S; and Strelnick, A. A multi-disciplinary health care outreach team to the homeless: The 10-year experience of the Montefiore Care for the Homeless Team. In Sebastian, J and Bushy, A (ed). Special Populations in the Community: Advances in Reducing Health Disparities. Aspen pub. 1999.

Krompinger, J. and Plescia, M. Low Back Pain. In Kozol, D; Fromm, K; and Konen, J.(ed). When to Call the Surgeon in Primary Care. F.A. Davis pub. 1999.

Other

Plescia M, Groblewski M. A community-based partnership to address barriers to physical activity in an African American community [abstract]. Preventing Chronic Disease [serial online] 2005 April. http://www.cdc.gov/pcd/issues/2005/apr/04_0142m.htm.

Plescia, M. Book Review. Primary Care Management: Cases and Discussions. Social Science and Medicine. November 2001; 54(1): 165-166.

Plescia, M. Book Review. Homelessness and Ill Health. Social Science and Medicine. July 17 1999; 49(2): 291-292.

CURRICULUM VITAE Michael R. Kurman, M.D.

OFFICE ADDRESS: 469 West Saddle River Road

Upper Saddle River, NJ 07458

PHONE: 201-236-9730 FAX: 201-760-8894 CELLULAR: 201-410-3205

e-mail: <u>mkurman@mkurmanconsulting.com</u>
Website: <u>www.mkurmanconsulting.com</u>

EDUCATION:

1973 B.S. in Biology, Summa Cum Laude

Syracuse University, Syracuse NY

1977 Doctor of Medicine

Cornell University Medical College, New York, NY

ACADEMIC APPOINTMENTS:

Adjunct Associate Professor of Epidemiology and Health Promotion, Master of Clinical Trials Program, New York University, 2004 - Present

Adjunct Professor for Pharmaceutical Technology Management, Wesley J. Howe School of Technology Management, Stevens Institute of Technology, 2006 – 2009

BOARD MEMBERSHIP

Member of the Board of Directors, Avalon Pharmaceuticals, 2005 – 2009

Member of the Board of Directors, Thallion Pharmaceutidals, 2008 – 2010

COMMUNITY SERVICE

Member, Upper Saddle River Board of Health, 2009 – 2014 (appointed President of the Board, May, 2013)

Commissioner, Northwest Bergen Regional Health Commission, 2009 – 2014

Member, Syracuse University Biology Alumni Board, 2006 - Present

PROFESSIONAL EXPERIENCE

Current President

Michael Kurman Consulting

Head of independent consultancy providing strategic consulting services to the pharmaceutical, biotechnology and healthcare industries. Consulting engagements focus on design of clinical development planning; protocol design; due diligence for in-licensing and capital investment; portfolio management and assessment; selection of investigators; and management of key opinion leader relationships. Regulatory activities include assistance with IND applications; responsibility for the clinical sections of NDAs/BLAs; leading Sponsor-FDA meetings; formulating regulatory strategy; and serving as medical monitor, including composing/reviewing serious adverse event narratives and submitting expedited safety reports to health authorities. Marketing activities include assisting marketing and communication organizations with competitive assessment; strategic and medical focus for advertising campaigns; medical review of communications materials; salesforce training; KOL interviews.

Member of the Board of Directors

Avalon Pharmaceuticals (2004 – 2008) Member of the Nominating Committee (2006 – 2007) Chairman, Compensation Committee (2007 - 2008)

Member of the Board of Directors

Thalllion Pharmacueticals (2008 – 2010) Member of the Compensation Committee (2008 – 2010)

Member of the Scientific Advisory Board

Thallion Pharmaceuticals (2007 – 2010)

Member of the Scientific Advisory Board

Locus Pharmaceuticals, 2004 - 2008

Member of the Scientific Advisory Board

Biothera, 2008 -2010

1998 - 2000 Vice President, Clinical and Scientific Operations

Quintiles, Quintiles Oncology Therapeutics Division, Cranford, NJ

Responsible for clinical monitoring, investigator relations, medical affairs and drug safety reporting for contract research division dedicated to Phase I-IV oncology clinical trials; wrote oncology protocols and consulted on clinical trial design with sponsors; consulted on regulatory strategy and clinical development plans with sponsors; reviewed integrated reports and regulatory submissions; primary contact to consortia of oncology investigators in academic and non-academic settings; oversaw oncology training program for CRAs and project managers; oversaw group of about 60 individuals; direct reports were two physicians and a drug safety nurse, the Director of Clinical Operations; and the Associate Director for Investigator Relations; reported to Sr. Vice President, Quintiles Oncology Therapeutics. Developed strategic alliance with national

consortium of academic oncology centers; developed second strategic alliance with national consortium of community cancer centers; developed strategic alliance with national oncology managed care organization; contact to Business Development group for proposal/presentation strategy.

1996 - 1998 Vice President, Clinical Operations

Quintiles, Innovex Division, Parsippany New Jersey

In charge of all clinical research projects conducted by contract research company primarily devoted to late stage (Phase 3B/4) clinical trials in a broad range of therapeutic areas, including cardiovascular, endocrinology, oncology, HIV, transplantation and CNS; directly responsible for project management, clinical monitoring, data management, medical affairs, drug safety and regulatory affairs; managed group of approximately 80individuals; set overall business strategy for US clinical department of Innovex; set-up "war-room" for conduct of large simple trials using optical scanning technology; re-vamped all SOPs; instituted training procedure for new hires ("Innovex University"); initiated internship program with local school of pharmacy; reported to President of Innovex US.

1995 – 1996 Vice-President, Clinical Research

U.S. Bioscience, West Conshohocken, PA

In charge of all clinical research conducted in North America for U.S. Bioscience; formulated clinical development plan and long-term research strategy for all U.S. Bioscience products in conjunction with overall corporate strategy; authored protocols, selected investigators and managed clinical trials in Phases 1 - 4; responsible for Clinical Operations, Biostatistics, Medical Writing and Clinical Information; liaison for all medical/clinical information with Marketing, Sales, Finance; marketing partners; responsible for all safety reporting to FDA. Personally wrote all SOP's pertaining to Clinical Operations, re-vamped clinical filing system, installed new information management technology, undertook process mapping to improve efficiency of clinical trials startup, monitoring and data retrieval; reported to CEO. Designed and managed clinical program that resulted in successful NDA for radioprotectant.

1993 – 1995 Senior Director of Cancer Therapeutics

Cytogen Corporation, Princeton, NJ

Project leader for radiopharmaceutical for the treatment of bone metastases; authored protocol and managed worldwide Phase 3 trials, including studies in US, Canada, UK, France, Switzerland; was personally responsible for NDA filing and for communications with FDA; was primary liaison between CYTOGEN, its CRO's and European licensee; managed yearly research budget in excess of \$2 million; reported to VP of Clinical Investigations. Designed and managed program that resulted in successful for agent for metastatic bone disease.

1989 – 1992 Director of Clinical Research, Oncology and Allergy

Janssen Research Foundation; Titusville, NJ

Initiated and managed Phase 1 - 3 trials with differentiating agent for metastatic prostate cancer and hormonal agent for metastatic breast cancer; project leader for NDA for topical anti-histamine; primary contact for clinical discussions and meetings with FDA; managed group of approximately nine, including Assoc. and Asst. Directors, Manager, CRA's; reported to VP of Clinical Research. Also served as technical support for VP Business Development in scientific and clinical evaluation of licensing opportunities for oncology/immunology compounds. Clinical team member for successful NDA of immunotherapeutic for colon cancer.

1982 – 1989	Private Practice of Medical Oncology Middlesex Oncology P.A., Edison, NJ
1980 – 1982	Fellow in Neoplastic Diseases Mt. Sinai Medical Center, New York, NY
1979 – 1980	Clinical Instructor in Medicine State University of New York - Upstate Medical Center; Syracuse, NY
1978 – 1979	Resident in Internal Medicine State University of New York - Upstate Medical Center; Syracuse, NY
1977 – 1978	Intern in Internal Medicine State University of New York - Upstate Medical Center; Syracuse, NY

WORK-RELATED EXPERIENCE

1996 – 2000	Continuing Medical Education Committee Drug Information Association
1992 – 1993	Pharmacoeconomic Task Force Janssen Research Foundation
1984 – 1989	Medical Director Rahway Hospital Hospice, Rahway, NJ
1987 – 1989	Field Liaison, Commission on Cancer American College of Surgeons
1983 – 1985	Instructor in Medicine Perth Amboy General Hospital, Perth Amboy, NJ
1984 – 1989	Utilization Review Committee John F Kennedy Hospital, Edison, NJ
1985 – 1989	Quality Assurance Committee Rahway Hospital, Rahway, NJ
1983 – 1985	Committee on Professional Education American Cancer Society

CERTIFICATION:

1975	National Board of Medical Examiners, Part I
1977	National Board of Medical Examiners, Part II
1978	National Board of Medical Examiners, Part III

1981 American Board of Internal Medicine

1985 American Board of Internal Medicine, Subspecialty of Medical Oncology

LICENSURE:

New York #138327 New Jersey #40567

AWARDS:

Phi Beta Kappa, Syracuse University Chapter Alpha Epsilon Delta, Pre-medical Honorary Society, Syracuse University Chapter The Dean's Research Award, Cornell University Medical College The National Foundation-March of Dimes Summer Research Grant American Cancer Society Community Appreciation Award The President's Award, Janssen Research Foundation

PROFESSIONAL ORGANIZATIONS

American Society of Clinical Oncology American Academy of Pharmaceutical Physicians American Association of Pharmaceutical Scientists Regulatory Affairs Professional Society Drug Information Association American Society of Hematology

PUBLICATIONS AND PRESENTATIONS:

- 1. Kurman MR and Argyris T: The proliferative response of epidermis to full thickness wounds. Am J Path 79:301, 1975.
- 2. Perth Amboy General Hospital Grand Rounds, November, 1983, Autoimmune hemolytic anemia.
- 3. Kampel LJ and Kurman MR: Severe leukopenia induced by aminoglutethimide. Can Treat Rep 68:1277, 1984.
- 4. Kurman MR: Decisions about CPR (letter). NEJM 318:1273, 1988.
- 5. Kurman MR: Palliative chemotherapy, in Patt R (ed): Problems in Cancer Pain Management: A Multidisciplinary Approach, Philadelphia, J.B. Lippincott Company, 1992.
- 6. Kurman MR: Levamisole and melanoma (letter). J Clin Oncol 9:1714, 1991.
- 7. Kurman MR: Recent clinical trials with levamisole. Presented at the New York Academy of Sciences meeting on immunomodulator therapy, July, 1992, Washington, DC.

- 8. Seidmon EJ, Trump DL, Kreis W, Hall SW, Kurman MR, Ouyang SP: Phase I dose escalation study of liarozole in patients with Stage D, hormone-refractory carcinoma of the prostate. Presented at the annual meeting of the Society for Surgical Oncology, April, 1993.
- 9. Strauss L, Herbst L, Kurman, MR: Comparison of the cost-effectiveness of DURAGESIC and infusional parenteral morphine. Presented at the 15th annual meeting of the National Hospice Organization, Salt Lake City, October 13-16, 1993.
- 10. Kurman, M: Nuclear Medicine in Oncology. Presented at the Central Chapter of the Society of Nuclear Medicine's Road Show, Minneapolis, March 5, 1994.
- 11. Serafini AN, Elgarresta, Mallin W, Watson C, Gomez CA, Vargas-Cuba E, Gordon E, Kurman M: Sm-153-EDTMP as a palliative agent for patients with bone metastases. Jour Nuc Med 35:235P, 1994.
- 12. Budd GT, Bukowski RM, Adelstein D, Pelley R, Olencki T, Petrus J, McLain D, Conlon J, Kurman M, Capizzi RL, Ganapathi R: Mature results of a randomized trial of carboplatin and amifostine vs carboplatin alone in patients with advanced malignancies. ASCO Proceedings, Volume 15, 1996.
- 13. Stansell JD, Sattler FR, Dube M, Koda RT, Lee WL, Chaterjee DJ, Sharpe E, Capizzi RL, Kurman MR: Randomized trial of trimetrexate, leucovorin and dapsone vs. trimethoprim/sulfamethoxazole for Pneumocystis carinii pneumonia. ASCO Proceedings Volume 15, 1996.
- 14. Blanke C, Kasimis B, Schein P, Capizzi RL, Kurman M: A Phase II trial of trimetrexate, 5-fluorouracil and leucovorin in patients with unresectable or metastatic colorectal cancer. ASCO Proceedings, Volume 15, 1996.
- 15. List AF, Heaton R, Glinsmann-Gibson B, Brasfield F, Crook L, Taetle R, Kurman M: A Phase I/II clinical trial of amifostine in patients with myelodysplastic syndrome (MDS): promotion of multilineage hematopoiesis. ASCO Proceedings, Volume 16, 1997.
- 16. Kurman, M: New paradigms in cancer clinical trials. Presented at the Fall Meeting of the Association of Community Cancer Centers, Long Beach, CA, September, 1999.
- 17. Paterson AHG, Powles TJ, Kanis JA, McCloskey EV, Archambault WT, Kurman MR: Effect of clodronate on time to occurrence of skeletal complications in patients with breast cancer and bone metastases. Abstract submitted to the 24th Annul San Antonio Breast Cancer Symposium.
- 18. Kurman MR, Verastegui E, Barrera J, et al. IRX-2 protocol improves outcome in head and neck cancer. Proc Amer Soc Clin Oncol 22:755, 2003.
- 19. Kurman MR. The development of cancer vaccines. Regulatory Affairs Focus 9:12, 2004
- 20. Heron DE, Gerszten K, Brufsky AM, Kurman M. The effect of chemotherapy and external beam radiotherapy on bone marrow toxicity of radionuclides in the treatment of bone metastases secondary to breast cancer. Proc Amer Soc Clin Oncol 23:75, 2004
- 21. Rodon J, Patnaik A, Stein M, Tolcher A, Ng C, Dias C, Kurman M, Greig G, Kurzrock R, Rubin E. A phase I study of q3W R1507, a human monoclonal antibody IGF-1R antagonist in patients with advanced Cancer. Presented at the American Society of Clinical Oncology Annual Meeting, June 1 5, 2007, Chicago, IL.

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- 26. Halstenson CE, Gargano MA, Kurman MR, Walsh R, Theoharis N, and Patchen ML. Phase 1, Randomized, Double-Blind, Placebo-Controlled, Multiple-Dose, Dose-Escalation Study of Imprime PGG® Injection (Imprime PGG) in Healthy Subjects. Presented at the 23rd Annual Meeting of the International Society for Biological Therapy of Cancer, San Diego, 2008
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- 28. Workshop Leader for "Working with Specialized Oncology CROs" at the ExL Pharma Partnerships in Oncology Clinical Trials Conference, Phildadelphia, January 26, 2009
- 29. Dickson MA, LoRusso P, Sausville EA, Rao N, Kobayashi E, Kurman MR, Akinaga S, Schwartz GK. Open-label, sequential, ascending, multi-dose, phase I study of KW-2450 as monotherapy in subjects with previously treated advanced solid tumors. J Clin Oncol 29: 2011 (suppl; abstr 3078).
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33. Cavenagh J, Baylon H, Caguioa PB, Davies FE, Gharibo M, Akinage S, Kurman M, Novak B, Yong K. An open-label, dose escalation, multicenter Phase 1/2 study of KW-2478 in combination with bortezomib in subjects with relapsed and/or refractory multiple myeloma. Accepted for presentation at the 2014 Annual Meeting of the American Society of Hematology, New Orleans.

PATENTS

Patent #8409574, "Taxane Analogs for the Treatment of Brain Cancer," issued 02 APRIL 2013

About Michael Kurman Consulting, LLC

Dr. Michael Kurman has been in the healthcare field for 28 years, first as a physician-investigator, later as a pharmaceutical executive and now as a consultant to the healthcare, pharmaceutical and biotech industries.

Examples of some projects completed by Michael Kurman Consulting, LLC include:

- Advised the European subsidiary of a Japanese pharmaceutical company in organizational structure for its Clinical Research Division
- Trained a newly assembled pharmaceutical sales force at the time of launch of a new breast cancer drug
- Assisted several privately held biotech companies in the raising of venture capital
- Assisted a small pharmaceutical company with clinical developmental and regulatory strategy, and presenting the company's position at a pre-NDA meeting at the FDA
- Assisted a hospital placed on clinical hold by the FDA in re-organizing their IRB and clinical research departments
- Designed the U.S. clinical development plan for a growth factor inhibitor sponsored by a
 Japanese pharmaceutical company and leading an expert panel to discuss the development plan
- Designed the global clinical development plan for an agent for the treatment of bone metastases for a European pharmaceutical company
- Designed the Phase 1 studies for a novel chemotherapy agent sponsored by a major U.S. pharmaceutical and healthcare company
- Wrote the business plan for a privately held medical informatics and data-management company concentrating in the oncology area

- Assisted a company in its due diligence in anticipation of purchasing a CRO
- Designed and managed the Phase 1 program of a novel cancer immunotherapeutic for a privately held biotech company
- Designed the clinical trials for a Phase 4 program for a major global pharmaceutical company in anticipation of the launch of a novel oncology product
- Advised a medical education company in their efforts to obtain certification to provide continuing education credit
- Performed medical and clinical due diligence for the US subsidiary of a European pharmaceutical company attempting to licensing in several oncology products
- Wroate the Integrated Summary of Safety for NDA and participating in pre-NDA meeting for agent for metastatic bone disease
- Served as medical monitor for clinical trials of a breast cancer diagnostic product
- Served on the Medical Advisory Board of a medical education company
- Assisted a major biotech company in analysis of safety data from a Phase 1 study of new proteasome inhibitor
- Developed several Phase 4 studies for a global pharmaceutical company for a recently launched growth-factor inhibitor drug
- Assisted a pharmacogenomics company with licensing strategy and due diligence
- Advised a venture capital company regarding due diligence and investments in biotechnology
- Advised a biotechnology company with a unique anti-cancer platform on development and regulatory strategy

- Assisted a major European pharmaceutical company in development of a new chemotherapy product for colorectal cancer
- Assessed the clinical development plan for a biotechnology company with a vascular targeting agent
- Assisted a Canadian pharmaceutical company with preparation and submission of a US IND for a novel anti-cancer drug
- Assisted the same Canadian pharmaceutical company in raising venture capital
- Assisted a major global pharmaceutical company with the development of an agent for the
 treatment of bone metastases, including authoring two Phase 3 pivotal protocols, serving as a
 clinical advisor in an end of Phase 2 meeting at FDA and participating in a special protocol
 assessment
- Assisted a small natural products company in the development of a new cytotoxic derived from plant biomass
- Assisted a small pharmaceutical company with a clinical development plan for a unique antianginal product
- Assisted a US pharmaceutical company (study design, database design, data analysis) with a
 Phase IV trial of a calcium channel blocker used during angioplasty
- Authored the Phase 1 protocol and the clinical portion of the IND and served as the clinical representative during the pre-IND meeting with the FDA for a novel monoclonal antibody targeting a growth factor receptor of a major international pharmaceutical company
- Authored the Phase 1 protocol, the investigator's brochure and the clinical portion of the IND
 for a novel anti-mitotic agent and led the pre-IND teleconference for a small pharmaceutical
 company

- Authored the Phase 3 clinical development plan for a novel agent that induces heat shock protein 90 for a small pharmaceutical company
- Authored a global clinical development plan for a vascular disrupting agent for an Australian company
- Authored a clinical development plan for a gene-therapy product for the treatment of ovarian cancer
- Authored a global clinical development plan for 2 products with unique mechanisms of action for a Canadian pharmaceutical company
- Assisted a European pharmaceutical company with their pediatric investigational plan for the EMA
- Leading the development effort for a radiation protection agent for patients with head and neck cancer
- Assisted the US subsidiary of a Japanese pharmaceutical company in performing medical due diligence for several oncology drug in-licensing opportunities
- Assisting a Japanese-based global pharmaceutical company in the development of several compounds for a variety of malignancies
- Performed due diligence for the US subsidiary of a major Japanese pharmaceutical company on the successful in-licensing of a novel compound for the treatment of Hodgin's Disease
- Assisted a marketing/communications company making a presentation to a major US biotechnology company with strategic and medical focus for an advertising campaign for a monoclonal antibody used in the treatment of non-Hodgkin's lymphoma; presented at the pitch to the client
- Serving as the medical monitor for a Phase 1 study in patients with advanced solid tumors sponsored by a developmental stage pharmaceutical company

- Serving as the medical monitor for several Phase 1/2 studies of a monoclonal antibody under development for various malignancies sponsored by a development stage biotechnology company
- Designed the clinical development plan for 2 oncology biosimilar products for ex-US company

Curriculum Vitae Lee M. Greenberger, Ph.D.

Work: 914-821-8415 E-mail: lee.greenberger@lls.org

Summary

- Experienced scientist and leader with a 24-year record of discovering and advancing more than 10 novel therapeutics for the treatment of cancer from the laboratory to the clinic
- Experience at non-profit organization overseeing \$75 M annual portfolio consisting of 320 active grants and 20 individual assets focused in hematological malignancies
- Leadership experience within mid-size biotech (oversee 60-person unit) as well as interfacing with senior leadership within biotech and big pharma
- Internationally recognized scientist through the advancement of novel cancer therapies and approximately 90 publications
- Executive level experience within business development unit for in/out-licensing Oncology and Immunology assets for a large pharmaceutical firm
- Wide knowledge base in all facets of Research and Development including strategic program design, IND-enabling work integrating large teams, laboratory design, biologic manufacturing, in/out-licensing and budgeting

Experience

2013- Leukemia and Lymphoma Society

Chief Scientific Officer

2012-2013 Bristol-Myers Squibb

Global Therapeutic Area Head for Oncology and Immunology

Search and Diligence

Strategic Transaction Group

Key Accomplishments

- Executed strategic in-licensing and out-licensing plans for Oncology and Immunology including examination of 250 opportunities and approximately 8 due diligence exercises with first 10 month since starting
- Working with Senior Management to design and implement new external opportunity strategies for 2013

Vice President, Research

Key Accomplishments

- Re-built and direct unit of > 60 scientists with Oncology focus (2006-2010); hired >25 new scientists in research and process development
- Oversee and coordinate Pharmacology, Toxicology, Process Development, Analytical and Chemistry efforts; peak operating budget > \$30 M
- Filed 6 new INDs (includes PEG-SN38 and LNA- RNA antagonists)
- Oversee design, construction, and activation of process development laboratory for toxicology and phase I material (>\$12M investment)
- Oversee development of two new APIs (Asparaginase and Adenosine Deaminase) to replace marketed products. New API FDA-approved for Asparaginase. Products sold to Sigma-Tau Pharmaceuticals in 2010.
- Designed and implemented collaboration with Santaris Pharma for discovery of novel LNA oligonucleotides against 8 targets in cancer
- Restructuring company to be a full-fledged biotech company based on research and development including 40% down-sizing of unit after sale of marketed products (beginning 2010)
- Senior most person leading Research and Production after departure of CSO (2011); report directly to Principal Executive Officer (2011)
- Co-lead BD effort for China out-licensing initiative (2011)

2005-2006 Cancer Therapeutics Research, Johnson & Johnson Sr. Research Fellow & Team Leader, Raritan, NJ

Key Accomplishments

- Directed effort of 25 scientist in Oncology Discovery
- Led 3 research programs in Oncology to go/no-go status for FIH decision within 1st nine months on site
- Initiated new research programs in oncology
- Raritan site representative for Biomarker Strategic Initiative
- Identified and coordinated 2 early phase 0/I programs suitable for in-licensing
- Core member scientific subteam of Therapeutic Area Operating Committee

1990-2005 Oncology Research, Wyeth Pharmaceuticals

(formerly Lederle Laboratories, American Cyanamid)

Sr. Director (2001- 2005), **Director** (2000- 2001), **Associate Director** (1997-2000), **Group Leader** (1991-1997), **Sr. Research Biochemist** (1990-1991)

Key Accomplishments

• Developed 8 of the 25 small molecules that entered Wyeth's Oncology pipeline during tenure. Five of the seven entered clinical trials; four advanced to Phase II (EKB-569, MAC-321, ERA-923, HTI-286).

- Discovery Project Team Leader for 6 projects. Directed and coordinated research efforts for 10-25 team members / project
- Research Project Director for Joint Venture with Taxolog, Inc.
- Principle Author of Pharmacology Section for 5 IND filings.
- Development Strategy Team Member (representing pre-clinical pharmacology) for 5 projects in clinical testing
- Design and implemented 10 programs for the discovery of signal transduction (kinase) inhibitors, hormone receptor inhibitors, tubulin inhibitors, and drug transport inhibitors
- President's Award (2002); Above and Beyond Award (2001, 1999, 1997)
- Hired 6 PhDs and 14 non-PhDs
- Supervised National Cooperative Drug Discovery Grant (1995-2000).
 Principle investigator for NCDDG renewal (2000-2005)

1986-1997 Albert Einstein College of Medicine

Department of Molecular Pharmacology

Laboratory of Dr. Susan Horwitz

Visiting Assistant Professor (1990-1997), Instructor (1988-1990), Research Associate (1986-1988)

Key Accomplishments

- Author of >10 full-length papers on ABC transporters in drug resistance. Nationally recognized expert in the study of drug interaction with the drug resistance pump known as P-glycoprotein.
- Leukemia Society of America Special Fellow
- Co-principal investigator: Bristol-Myers Drug Resistance Grant.

1984-1986 Columbia University

Department of Anatomy and Cell Biology Post-doctoral Associate

Key Accomplishments

- Identified novel membrane proteins on growing neurons
- Developed expertise in the study of glycoproteins

Education: Emory University, Ph.D., Anatomy, 1984

University of Rochester, B.A., Neuroscience, 1977

Grants, Honors, and Speeches:

2104 Moderator, AAADV Session focused on CAR T therapy, Washington, DC

2014 Invited Speaker: DTCC talk on HSCT, Jersey City, NJ

2014 Invited Speaker: Diamond Ball LLS event, Buffalo, NY

2011	Invited Speaker, TIDES, Boston, MA
2010	Invited Speaker, EuroTIDES, Barcelona, Spain
2009	Invited Speaker, Discovery on Target: RNA Section. Boston, MA
2009	Invited Speaker, RNA Interference Summit, San Francisco, CA
2009-	Education Committee Member, AACR (3 year appointment)
2008	Invited Speaker, EuroTIDES, Dusseldorf, Germany
2008	Invited Speaker, $10^{\rm th}$ International Symposium on Angiogenesis, February San Diego , CA
2005	Principle Investigator, NCCDG (2005)
2003	Invited speaker, SRI symposium on Growth Factor Receptors, May 5-6, 2003, Philadelphia, PA.
2001	Invited speaker, SRI symposium on Protein Kinases in Drug Discovery and Development, October 15-16,2001, Newark, NJ.
2000	National Cooperative Natural Products Drug Discovery Group. "Anticancer Agents from Unique Natural Product Sources." Funded 10/00-9/05. Co-Program Leader with Dr. P. Frost
1994	Chairperson, Symposium on "Drug Resistance in Microbes, Parasites, Viruses, and Tumors," 21st National Medicinal Chemistry Symposium, Salt Lake City, UT
1993-1995	American Cyanamid Research Grant with Dr. E. Sztul, Princeton University. "Molecular mechanisms mediating multiple drug resistance in tumor cells"
1993	Co-chairperson, Symposium, "Membrane Transporters in Multiple Drug Resistance and Cystic Fibrosis," New Academy of Sciences, NY
1992	Invited speaker, Calcium Antagonists: Pharmacology and Clinical Research., Houston, TX
1991	Co-chairperson, Minisymposium, American Association for Cancer Research, Houston, TX
1988-1990	Co-principal investigator, Bristol-Myers Tumor Resistance Grant
1987-1990	Leukemia Society of America Special Fellow

Lee Greenberger, CV

1987 Invited speaker, Gordon Research Conference on Chemotherapy of

Experimental and Clinical Cancer

1984-1986 National Research Service Award - NIMH Training Grant

1985 Travel Fellowship for Workshop on Neuronal Membrane and Development

in Cargese, Corsica

Professional Organizations:

American Association for the Advancement of Science

American Society for Cell Biology

American Association for Cancer Research

American Society for Biochemistry and Molecular Biology

Peer Review Activities:

Grant reviewer: Am. Cancer Society, John Sealy Memorial Endowment Fund, Dept. of Veteran Affairs-Research and Development, American

Association for Cancer Research

Manuscript reviewer: J. Biol. Chem., Cancer Res., J. Natl. Cancer Inst., Biochem. Pharmacol., Biophys. J., Oncol. Res., Mol. Pharmacol., Biochemistry, Mol. Cancer Thera., J. Med Chem., J. Mol. Med.

Bibliography: >80 full-length articles

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- 2. Morrell, J.I., Greenberger, L.M. and Pfaff, D.W. (1981). Hypothalamic, other diencephalic, and telencephalic neurons that project to the dorsal midbrain. J. Comp. Neurol. 201, 589-520.
- 3. Greenberger, L.M. and Besharse, J.C. (1983). Photoreceptor disc shedding in eye cups: Inhibition by deletion of extracellular divalent cations. Invest. Opthalmol. Vis. Sci. 28, 1456-1464.
- 4. Greenberger, L.M. and Besharse, J.C. (1985). Stimulation of rod photoreceptor disc shedding by aspartate, glutamate, and other amino acids. J. Comp. Neurol. 239, 361-372.
- 5. Greenberger, L.M. and Pfenninger, K.H. (1986). Membrane glycoproteins of the nerve growth cone: diversity and growth-associated oligosaccharides. J. Cell Biol. 103, 1369-1382.
- 6. Greenberger, L.M., Williams, S.S., and Horwitz, S.B. (1987). Biosynthesis of

- heterogeneous forms of multidrug resistance-associated glycoproteins. J. Biol. Chem. <u>262</u>, 13685-13689.
- 7. <u>Greenberger, L.M.</u> (1987). Protein trafficking: the sorted details. Einstein Quart. J. Biol. and Med. <u>5</u>, 98-99.
- 8. <u>Greenberger, L.M.</u>, Lothstein, L.L., Williams, S.S., and Horwitz, S.B. (1988). A family of multidrug resistance-associated glycoproteins: distinct precursors are overexpressed in independently isolated cell lines. Proc. Natl. Acad. Sci. USA <u>85</u>, 3762-3766.
- 9. <u>Greenberger, L.M.,</u> George, E., Williams, S.S., Ling, V., and Horwitz, S.B. (1988). Electrophoretic analysis of P-glycoproteins produced by mouse J774.2 and Chinese hamster ovary multidrug-resistant cells. J. Natl. Cancer Inst. <u>80</u>, 506-510.
- 10. Horwitz, S.B., Goei, S., <u>Greenberger, L.M.</u>, Lothstein, L., Mellado, W., Roy, S.N., Yang, S.N., C.-P., and Zeheb, R. (1988). Multidrug resistance in the mouse macrophage-like cell line J774.2 in <u>Mechanisms of Drug Resistance in Neoplastic Cells</u> (Woolley III, P.V., and Tew, K.D., eds.) Academic Press, NY, pp. 223-242.
- 11. Horwitz, S.B., Liao, L.-L., <u>Greenberger, L.M.</u>, and Lothstein, L. (1988). Mode of action of taxol and characterization of a multidrug resistance cell line selected with taxol. in <u>Resistance to Antineoplastic Drugs</u> (Kessel, D., ed.), CRC Press, Boca Raton, pp. 109-125.
- 12. Yang, C.-P.H., DePinho, S.G., Arceci, R., <u>Greenberger, L.M.</u>, and Horwitz, S.B. (1989). Progesterone interacts with P-glycoproteins in multidrug-resistant cells and in the endometrium of gravid uterus. J. Biol. Chem. <u>264</u>, 782-788.
- 13. <u>Greenberger, L.M.,</u> Lothstein, L. and Horwitz, S.B. (1989) Heterogeneous forms of P-glycoprotein in multidrug resistant J774.2 cells. Colloque INSERM (Anticancer Drugs, H. Tapiero, J. Roberts, and T.J. Lampidis, eds. John Libbey Eurotext Ltd., London) <u>191</u>, 263-275.
- 14. Lothstein, L., Hsu., S.I., Horwitz, S.B. and <u>Greenberger, L.M.</u> (1989) Alternate overexpression of two P-glycoprotein genes is associated with changes in multidrug resistance in a J774.2 cell line. J. Biol. Chem. <u>264</u>, 16054-16058.
- 15. <u>Greenberger, L.M.,</u> Croop, J.M., Horwitz, S.B. and Arceci, R.J. (1989). P-glycoproteins encoded by <u>mdr</u>lb in murine gravid uterus and multidrug resistance tumor cell lines are differentially glycosylated. FEBS Lett. 257, 419-421.
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- 17. Yang, C.-P.H., Cohen, D., <u>Greenberger, L.M.</u>, Hsu, S. I.-H., and Horwitz, S.B. (1990). Differential transport properties of two <u>mdr</u> gene products are distinguished by progesterone. J. Biol. Chem. 265: 10282-10288.

- 18. <u>Greenberger, L.M.</u> (1990). Photoaffinity labeling of the multidrug-resistant gene product, P-glycoproteins. Dupont Biotech Update: p. 57-58.
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- 21. <u>Greenberger, L.M.</u>, Lisanti, C.J., Silva, J.T., and Horwitz, S.B. (1991). Domain mapping of the photoaffinity drug binding sites in P-glycoprotein encoded by <u>mdrlb</u>. J. Biol. Chem. 266: 20744-20751.
- 22. <u>Greenberger, L M.</u> (1993). Reversal of P-glycoprotein-mediated multidrug resistance in tumor cells by calcium channel antagonists. in <u>Calcium Antagonists: Pharmacology and Clinical Research.</u> (T. Godfraind, S. Govani, R.Paoletti, and P. M. Vanhoutte, eds.), Kluwer Academic Press. Boston, MA. NY. pp. 363-368.
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- 24. <u>Greenberger, L. M.</u> (1993). Major photoaffinity drug binding sites for iodoaryl azidoprazosin in P-glycoprotein are within, immediately C-terminal to, transmembrane 6 and 12. J. Biol. Chem 268: 11417-11425.
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Patents:

- Rabindran, S. K., He, H., and <u>Greenberger, L. M</u>. Reversal of a novel multidrug resistance in human colon cells . Issued April 12, 2005. US patent 6,878,737
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- Loganzo Jr., F., <u>Greenberger L. M.</u>, Tan, X., Wissner, A. Assays to identify irreversible binding inhibitors of receptor tyrosine kinases. PCT/US 2005/016951. Filed May 2005
- Zhang, Y. Qu. T., <u>Greenberger, L. M.</u> Methods of treating kinase-resistant cancer with HER3 antisense oligonucleotides. PCT/US 2009/0169093. Filed April 2009
- <u>Greenberger, L.M</u>, Qu, T., Zhang, Y. Methods of treating kinase-resistant cancer with HER3 antisense oligonucleotides. US 61/413784. Filed November 2010.

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PROFESSIONAL SUMMARY

Results driven Regulatory Affairs executive with over 20 years experience in multinational pharmaceutical, biotech and device companies. Skilled at developing and driving execution of global regulatory strategies, business initiatives and systems development to advance business goals. Effective communicator and organizational leader with recognized ability to build productive relationships and to develop/retain highly productive and motivated teams in a matrix environment.

EDUCATION

PhD Molecular Genetics and Microbiology

Rutgers University and the University of Medicine and Dentistry of New Jersey (Center for Advanced Biotechnology and Medicine, New Brunswick, NJ)

Awards

Raymond W. Sarber Award, American Society for Microbiology Natl. Research Service Award/Natl. Inst. of Health Biotechnology Fellowship National Science Foundation Fellowship Molecular and Cell Biology Fellowship, Rutgers University/UMDNJ

BS Biochemistry (Magna cum Laude)

University of Massachusetts, Amherst MA

PROFESSIONAL EXPERIENCE & ACCOMPLISHMENTS

CYMREG CONSULTING, DOYLESTOWN, PA

Current

President & Principal Consultant

Provide expert advice and hands-on capability in all areas of regulatory strategy and operations/submission planning with focus on providing regulatory guidance to small companies and start-ups where the need covers cross-functional regulatory requirements (Clinical, CMC, Preclinical). Services include advising on global or specific regulatory strategies and planning for projects ranging from early clinical development through post-approval, preparation of regulatory documents for submission to global health authorities, support for meetings with health authorities and assessing regulatory risks for licensing opportunities.

Experience includes: developing regulatory strategies for clinical and pharmaceutical development of strategic new products, life cycle management and compliance of marketed products in multiple therapeutic areas (including oncology, blood products/biosurgery, and endocrine/metabolic); submission of INDs, CTAs, NDAs, BLAs, MAAs, PMA/510Ks and leading major regulatory meetings covering small and large molecules and biologic/device combination products.

OMTHERA PHARMACEUTICALS, PRINCETON, NJ

2011-2012

Vice President, Regulatory Affairs

Accountable for the development and execution of regulatory strategies for global investigational and marketing applications, as well as developing productive relationships with external business partners and consultants.

- Developed regulatory strategy and provided leadership for execution of investigational and marketing applications for Epanova, a complex mixture of omega-3 free fatty acids (animal-sourced product).
- Established and maintained aggressive project plan for NDA submission, engaging and managing internal
 and external resources for development of the marketing application and corporate quality system.
- Identified and selected external partner organizations, negotiating favorable contracts for NDA execution.
- Liaison with regulatory agencies on all matters relating to drug development and compliance, including

ETHICON INC (A JOHNSON & JOHNSON COMPANY), SOMERVILLE, NJ

2010-2011

Vice President, Regulatory Affairs

Established vision, strategy and goals for the global Regulatory Affairs function aligned with the business unit and franchise needs as a member of the J&J Wound Management Board. Assured high performing global regulatory organization and project alignment with business goals for plasma-derived biologics, immunotherapy products, biologic/device combination products and medical devices.

- Led J&J Wound Management regulatory departments in US, EU and Israel (25+ professionals).
- Directed regulatory strategy, execution and planning of regulatory submissions for biosurgery products to
 achieve and maintain clinical trial authorizations and marketing approvals globally, directly or through J&J
 affiliates to help drive the growth of the J&J Wound Management Business.
- Led regulatory meetings with FDA, EU National CAs and Israeli Ministry of Health, including Pre-Submission meetings and regulatory aspects of Pre-Licensing Inspection and issue resolution meetings.
- Integrated and aligned Regulatory Affairs organizational structure, systems and processes across all sites to
 ensure global consistency and improved efficiency.
- Submissions and/or approvals included Evarrest BLA, MAA and Pediatric Investigational Plan, Thrombin Pad dossier, and approvals globally of Evicel, SurgiFlo with Thrombin (US BLA/PMA & EU).

IMCLONE SYSTEMS INC, BRIDGEWATER, NJ

2009 - 2010

A wholly-owned subsidiary of Eli Lilly and Company
Sr VP, Global Regulatory Affairs and Drug Safety (Interim)
Vice President, Regulatory Affairs — Late Development

Provided strategic direction and leadership for global regulatory and drug safety (80+ professionals) as the functional department head and member of the ImClone Management Committee.

- Formulated novel strategies and directed development, implementation and execution of global regulatory strategies for the successful conduct of Phase II and Phase III studies for monoclonal antibody development pipeline oncology projects (5 Phase III studies in 2009, 6 Phase III studies in 2010) including cixutumumab, necitumumab, ramudrumab, EB10 and IMC-18F1.
- Directed activities of the Regulatory Affairs global strategy leads and developed talent to ensure consistent and informative strategic support to business partners. Led key interactions and negotiations, and directed all interactions with health authorities for late stage development assets including Pre-IND, End of Phase 2 and protocol advice meetings.
- Developed and implemented new global regulatory operating model in alignment with key stakeholder needs and corporate business unit restructure to leverage talent and best practices.

GPC BIOTECH INC, PRINCETON, NJ

2006 - 2009

Vice President, Worldwide Regulatory Affairs and Quality Compliance

Provided leadership for global Regulatory in all aspects of strategy, preparation and management of regulatory submissions. Developed regulatory strategies and operational plans for investigational oncology drug products in alignment with commercial and development plans as a member of the leadership and development teams.

- Directed strategy and execution of NDA for satraplatin from planning and submission through regulatory review. Provided regulatory support to partner organization for MAA submission and review process.
- Defined strategy and directed execution of CTA and IND submissions for other NME oncology products.
- Regulatory support for FDA Oncologic Drugs Advisory Committee meeting preparation.
- Led meetings with the regulatory authorities for pre-NDA, pre-IND, multiple Type A meetings and PAI in the US, and supported CHMP Scientific Advice and Pre-Submission meetings in the EU.
- Provided regulatory oversight of label development, promotional material review, public disclosures, corporate communications and filings, etc.
- Assessed regulatory risks and probabilities of regulatory success for licensing opportunities.
- Led and developed Quality Assurance and Document Control functions to establish compliant and efficient Quality Systems. Ensured successful Pre-Approval Inspection with no observations.

2001 - 2006

BRISTOL-MYERS SQUIBB, LAWRENCEVILLE, NJ

Vice President, Global Regulatory Operations Vice President, Global Regulatory Sciences - CMC Senior Director, Scientific Affairs

Directed and developed a team of 40+ regulatory professionals responsible for the strategy, preparation and project management of global Chemistry, Manufacturing and Controls (CMC) submissions to secure and maintain regulatory approvals for investigational and commercial pharmaceutical products.

- Provided strategic, technical and managerial leadership for CMC Regulatory and Scientific Affairs, including development of regulatory strategy, liaison with regulatory authorities and execution of submissions for the Pharmaceutical Research Institute and Technical Operations.
- Defined strategic direction for CMC registration activities for new molecular entities and biologics (selected examples include Orencia (abatacept), Baraclude (entecavir), Reyataz (atazanavir), Abilify (aripiprazole), Sustiva (efavirenz)), and for the maintenance of products throughout their lifecycle.
- Designed, developed and implemented systems for improving efficiency of department operations, CMC submission preparation and approval.
- Established an integrated Operations function that facilitated and enabled improved operational performance of Global Regulatory Sciences by capturing, analyzing, and leveraging resource and performance management, staffing and financial information. Integrated new resource management and performance measurement capabilities for the division.

AVENTIS, COLLEGEVILLE, PA

1992 - 2000

Formerly: RHÔNE-POULENC RORER, COLLEGEVILLE, PA FISONS PHARMACEUTICALS, MANCHESTER, UK

Director, Quality Assurance and Regulatory North America, Aventis Pharma, Collegeville, PA Director, Regulatory Compliance - Americas & Asia/Pacific, Rhone-Poulenc, Collegeville, PA Senior Regulatory Affairs Associate, Fisons Corp, Rochester, NY Regulatory Officer, Fisons PLC, Manchester, England

Defined strategic direction for Marketed Product Regulatory Affairs and QA in North America with focus on meeting evolving business needs and goals. Provided leadership for resolution of quality and regulatory issues from pre-launch through product lifecycle.

- Directed team of Regulatory Affairs professionals in the development of CMC regulatory strategy and postapproval submissions, and in the maintenance of over 60 NDAs and worldwide marketing authorizations, Drug Listing/Establishment Registrations, DEA registrations, State Licenses, etc.
- Reduced \$3.6 million operations budget by 25% while maintaining high quality customer service and improving regulatory compliance.
- Closed analytical laboratory 3 months ahead of schedule, achieving savings of \$450,000.
- Developed and implemented corporate systems/procedures for change control, recalls, post-approval NDA submission preparation, approval and tracking, and department operations.
- Conducted meetings with FDA Office of Compliance, District Office and Review Divisions. Primary interface with FDA District Offices and other federal agencies such as USDA, DEA.
- Chaired Corporate Recall Committee. Managed 12 drug product recalls and all associated FDA communication. Negotiated recall requirements, releases of FDA and USDA import detentions.
- Advised multidisciplinary teams on regulatory requirements and submission strategy for respiratory, oncology, cardiovascular and anti-infective products. Represented company at successful FDA meetings and site inspections.

PROFESSIONAL CERTIFICATIONS/ASSOCIATIONS

Regulatory Affairs Certified (RAC), 2001

Regulatory Affairs Professional Society: Member since 1996

Drug Track Chair, RAPS Program Advisory Committee, 2005

Distinguished Alumni Award, School of Biomedical Sciences, UMDNJ, 2003

National Lipid Association: Member since 2011

National Association of Female Executives: Member since 2003

Industrial Advisory Board, Department of Biomedical Engineering, UMDNJ: Member since 2001

PUBLICATIONS/PRESENTATIONS

2005 Regulatory Affairs Professional Society Annual Conference. Drugs Track Chair and Moderator CDER Update. Member: RAPS Program Advisory Committee

Lloyd, R. M. 1999. The Drug Approval Process. Licensing Executive Society/Association of University Technology Managers, Philadelphia, PA.

Shatkin, A.J., Lloyd, R.M., and Tillotson, L.E. 1993. "Translation regulation by reovirus structural proteins" In: Regulation of Gene Expression in Animal Viruses. Plenum Press, N.Y. 151-162.

Lloyd, R.M. and Shatkin, A.J. 1992. Translational stimulation by reovirus polypeptide σ 3: Substitution for VAI RNA and inhibition of phosphorylation of the α subunit of eukaryotic initiation factor 2. J Virol. 66 (12): 6878-6884.

Lloyd, R.M. 1992. Molecular Mechanism of Translational Control Mediated by the Reovirus S4 Gene. Ph.D. Thesis. Rutgers University, New Brunswick, N.J.

Lloyd, R.M. and Shatkin, A.J. 1992. Translational control in cells expressing the reovirus S4 gene. 11th Annual American Society for Virology Meeting, Ithaca, N.Y.

Shatkin, A.J., Lloyd, R.M., and Tillotson, L.E. 1992. Regulation of reovirus gene expression. Intl. Workshop: The Regulation of Gene Expression by Animal Viruses, Mallorca, Spain.

Brandl, H. Gross, R., Lenz, R.W., Lloyd, R.M., and Fuller, R.C. 1991. The accumulation of poly (3-hydroxyalkanoates) in Rhodobacter sphaeroides. Arch Microbiol. 155:337-340.

Lloyd, R.M. and Shatkin, A.J. 1991. Role of the reovirus S4 gene in the regulation of translation. 10th Annual American Society for Virology Meeting, Fort Collins, Co.

Shatkin, A.J., Fajardo, E., Lloyd, R.M. and Tillotson, L.E. 1991. Translational controls in cells expressing reovirus genes. International Workshop on Virology, Madrid, Spain.

Shatkin, A.J., Fajardo, E., Lloyd, R.M. and Tillotson, L.E. 1991. Reovirus-mediated translational controls. Keystone Symposium on Translational Control, Tammarron, Co.

Lloyd, R.M. and Shatkin, A.J. 1990. Translational regulation in reovirus infected and transfected mammalian cells. 3rd Int. Symposium on Double-Stranded RNA Viruses, Kona, HI.

Lloyd, R.M., Giantini, M. and Shatkin, A.J. 1990. Translational control, DAI phosphorylation and the reovirus S4 gene. 9th Annual American Society for Virology Meeting, Salt Lake City, UT.

Lloyd, R.M., Giantini, M. and Shatkin, A.J. 1990. CAT mRNA translation is similarly stimulated by polypeptide σ 3 of reovirus serotypes 1 and 3. American Society for Microbiology National Meeting, Anneheim, CA.

Fajardo, E., Lloyd, R.M., Seliger, L., Shatkin, A.J. and Tillotson, L.E. 1990. Reovirus gene expression in transfected mammalian cells. VII Intl. Congress on Virology, Berlin, Germany.

Giantini, M., Seliger, L., Lloyd, R.M. and Shatkin, A.J. 1989. Stimulation of CAT mRNA translation by reovirus polypeptide σ3 in co-transfected COS cells. 8th Annual American Society for Virology Meeting, London, Canada.

Brandl, H., Gross, R., Lloyd, R.M., Lenz, R. and Fuller, R.C. 1988. Biodegradable Thermoplastics: Novel poly-β-hydroxy-alkanoates from Rhodospirillum rubrum and Pseudomonas oleovorans. American Society for Microbiology Annual Meeting.