



CANCER PREVENTION & RESEARCH
INSTITUTE OF TEXAS

Award ID:
RP120380

Project Title:
Distinct microRNAs Regulate Prostate Cancer Stem Cells

Award Mechanism:
Individual Investigator

Principal Investigator:
Tang, Dean G

Entity:
The University of Texas M.D. Anderson Cancer Center

Lay Summary:

This project aims to elucidate how three miRNAs (i.e., miR-34a, miR-141, and let-7b) regulate prostate cancer stem cells, which intrinsically express low levels of androgen receptor, are relatively undifferentiated, and may represent important cells of origin for castration-resistant prostate cancer. Our ultimate goal is, through studies such as those proposed herein, to translate key miRNAs functionally important for prostate cancer stem cells into clinical therapeutics against advanced, castration-resistant diseases.