

<u>Applicant</u>	<u>Year</u>	<u>Department</u>	<u>Title of Project</u>	<u>Program</u>
Michael Jung	2013-14	Chemistry and Biochemistry	Androgen Receptor Degradors for the Treatment of Prostate Cancer	Developmental Research
Michael Kuo	2013-14	Radiology and Pathology	Identification of histopathological and clinical correlates of altered diffusion characteristics in prostate cancer	Developmental Research
Siavash Kurdistani	2013-14	Biological Chemistry	Integration of Cellular Physiology with Epigenome by Inorganic Pyrophosphatase I and Histone Deacetylases	Developmental Research
Lily Wu	2013-14	Molecular and Medical Pharmacology, Urology	Blocking Tumor-Infiltrating Myeloid Cells to Improve Treatment Outcome of ADT and RT in High Risk Prostate Cancer	Developmental Research
Jennifer Murphy	2013-14	Crump Institute	Development of a dually labeled (PET/optical) engineered antibody fragment for imaging PSCA-expressing prostate cancer	Developmental Research
Nicholas Nickols and Mitchell Kamrava	2013-14	Radiation Oncology	Targeted tissue acquisition during prostate radiotherapy: exploration of the effects of combined modality treatment on epithelial mesenchymal transitions and induction of neuroendocrine markers	Career Enhancement
Lili Yang	2013-14	MIMG	Stem Cell-Engineered Invariant Natural Killer T Cells for Prostate Cancer Therapy	Career Enhancement
Arnold Chin	2014-15	Urology, DGSOM, UCLA	Understanding the Role of Receptor Interacting Protein 2 (Rip2) in Prostate Cancer: Testing a Model System in Dissecting the Prostate Cancer Tumor Microenvironment	Developmental Research
Dolores Di Vizio	2014-15	Surgery, Laboratory and Pathology Medicine and Biomedical Sciences, Cedars Sinai Medical Center	Large Oncosomes: A Novel Approach to Liquid Biopsy in Patients with Prostate Cancer	Developmental Research
Beatrice Knudsen	2014-15	Translational Pathology, Cedars Sinai Medical Center	Protein phosphorylation changes in the DNA damage response checkpoint as biomarkers and drug targets in advanced prostate cancer	Developmental Research

Yi Xing	2014-15	Microbiology, Immunology and Molecular Genetics, UCLA	Transcriptomic and functional impact of the neuronal splicing factor NOVA1 in prostate cancer	Developmental Research
Hilary Coller	2014-15	Molecular, Cell and Developmental Biology and Biological Chemistry, UCLA	Targeting Androgen-Resistant Prostate Cancer through Metabolic Vulnerabilities	Career Enhancement
Rajan Kulkarni	2014-15	DGSOM, UCLA	Evaluating Single-Cell Heterogeneity in Prostate Cancer with Circulating Tumor Cells	Career Enhancement
Jennifer Murphy	2014-15	Crump Institute for Molecular Imaging, UCLA	Development of a dually labeled (PET/optical) engineered antibody fragment for imaging PSCA-expressing prostate cancer	Career Enhancement
Lili Yang	2014-15	Microbiology, Immunology and Molecular Genetics, UCLA	Stem Cell-Engineered Invariant Natural Killer T Cells for Prostate Cancer Therapy	Career Enhancement
Peter Clark	2015-16		Investigating the role of the oncometabolite 2-hydroxyglutarate (2-HG) in neuroendocrine prostate cancer	Career Enhancement
Yvonne Chen	2015-16		Engineering prostate-cancer-specific cytotoxic T cells with minimal off-tumor toxicity	Career Enhancement
Hilary Coller	2015-16		Targeting Androgen-Resistant Prostate Cancer through Metabolic Vulnerabilities	Career Enhancement
Andrew Goldstein	2015-16		Role of metastasis-associated microRNAs in prostate cancer	Developmental Research
Guoping Fan	2015-16		Genomic analysis of tumor circulating cell-free DNAs from CRPC patients in clinical trial with MEK 1/2 inhibitor Trametinib	Developmental Research
Beatrice Knudsen	2015-16		Deep proteomics of the DNA damage response checkpoint for drug development against lethal prostate cancer	Developmental Research
Dolores Di Vizio	2015-16		Large Oncosomes: A Novel Approach to Liquid Biopsy in Patients with Prostate Cancer	Developmental Research
Yi Xing	2015-16		Transcriptomic and functional impact of the neuronal splicing factor NOVA1 in prostate cancer	Developmental Research

Douglas L. Black	2016-17	Dept of MIMG, UCLA	Identification of Myc-dependent, prostate cancer-specific mRNA splicing events as neo-antigens for antibody and TCR therapy development	Developmental Research
Kendall N. Houk	2016-17	Department of Chemistry and Biochemistry, UCLA	Computational Studies for Understanding Antagonistic Mechanism of Androgen Receptor: Toward Discovery of Novel Therapeutic Agents in Prostate Cancer	Developmental Research
Thomas Graeber	2016-17	UCLA Department of Molecular & Medical Pharmacology UCLA Metabolomics Center, Director Crump Institute for Molecular Imaging Jonsson Comprehensive Cancer Center California NanoSystems Institute	Genomic Instability as a Therapeutic Opportunity in Lethal Neuroendocrine Prostate Cancer	Developmental Research
Andrew Goldstein	2016-17		Role of metastasis-associated microRNAs in prostate cancer	Developmental Research
John K Lee	2016-17	Division of Hematology and Oncology, Department of Medicine David Geffen School of Medicine at UCLA	Combination therapy augmenting Myc destabilization by Aurora kinase A inhibition as a therapeutic strategy in advanced castration-resistant prostate cancer	Career Enhancement
Nick Nickols	2016-17	Department of Radiation Oncology	Stereotactic Body Radiotherapy (SBRT) induced immunity in prostate cancer: correlative analyses using tissue acquired from a Phase I Trial of prostate SBRT followed by surgery (IRB#15-001580)	Career Enhancement

Roger Slavik	2016-17	University of California Los Angeles Department of Molecular and Medical Pharmacology Ahmanson Translational Imaging Division	Towards improved outcomes in prostate cancer: Combining radioligand therapy with DNA repair inhibition	Career Enhancement
Amar U. Kishan	2017-18	Department of Radiation Oncology University of California, Los Angeles	Genomic Classifiers and Response to Radiation in Biopsy Gleason Score 9-10 Prostate Cancer	Career Enhancement
John K. Lee	2017-18	Division of Hematology- Oncology, Department of Medicine Department of Urology	Combinatorial Myc protein destabilization as a therapeutic strategy in advanced castration-resistant prostate cancer	Career Enhancement
Peter Clark	2017-18	Molecular and Medical Pharmacology	Non-invasive imaging of neuroendocrine prostate cancer with PET	Career Enhancement
Corey Arnold	2017-18	Departments of Radiological Sciences and Pathology and Laboratory Medicine	Machine Learning Tools to Diagnose Prostate Cancer in Multi- parametric MR and Whole Slide Imaging	Developmental Research
Thomas Graeber	2017-18	Department of Molecular and Medical Pharmacology UCLA	Genomic Instability as a Therapeutic Opportunity in Lethal Neuroendocrine Prostate Cancer	Career Enhancement
Andrew Goldstein	2017-18		Targeting CD74 in castration resistant prostate cancer	Career Enhancement
Reiter lab, Salmasi	2017-18	Urology	Radiogenomics of prostate cancer	Career Enhancement
John Phillips	2018-19	Microbiology, Immunology and Molecular Genetics, UCLA	Targeting AKT-dependent protein diversity for cancer immunotherapeutics development	Career Enhancement

Orian Shirihai	2018-19		Role of mitochondrial dynamics in lineage plasticity and enzalutamide-resistant prostate cancer	Career Enhancement
Hans Ulmert	2018-19	Molecular and Medical Pharmacology	ALDEHYDE OXIDASE 1 (AOX1) - A NOVEL THERANOSTIC TARGET IN PROSTATE CANCER	Career Enhancement
Hans David Ulmert	2019-20	Molecular and Medical Pharmacology	ALDEHYDE OXIDASE 1 (AOX1) - A NOVEL THERANOSTIC TARGET IN PROSTATE CANCER	Career Enhancement (Year 2)
Ajit Divakaruni	2019-20	Pharmacology	Targeting Mitochondrial Metabolism to Treat Neuroendocrine Prostate Cancer	Career Enhancement
Robert Reiter	2019-20	Urology	High Throughput of Screening of Small Molecule Inhibitors for Neuroendocrine Prostate	Developmental Research
Paul Boutros	2019-20	Human Genetics	Expanding the Prostate Cancer Proteome: Identity & Function of Non-Canonical ORFs	Developmental Research
Dino Di Carlo	2019-20	Bioengineering	AR-V7 Protein Liquid Biopsy in Metastatic Castration Resistant Prostate Cancer	Developmental Research
Huihui Ye	2019-20	Pathology and Laboratory Medicine	Identification of the Key Immune Inhibitory Molecules in "Hot" Prostate Cancer of African American Men, a Spatial Transcriptomic Approach	Developmental Research
Neil Lin	2019-20	Mechanical and Aerospace Engineering	A High-Throughput 3D Spheroid Platform for Prostate Cancer Therapy Screening	Developmental Research
Minna Lee	2019-20	Department of Surgery	Defining Similarities and Differences of Advanced, Highly Aggressive Prostate and Breast Cancer	Developmental Research
William Hsu	2019-20	Radiological Sciences	Computational Framework for Discovering and Validating Imaging Endotypes to Predict Clinically Significant Prostate Cancer Aggressiveness	Developmental Research
Chongyuan Luo	2020-21	Human Genetics	Identification of Spatial Regulatory Heterogeneity in Multifocal Prostate Cancer Using Single-Nucleus Multi-Omics	Career Enhancement
John Wilson Phillips	2020-21	Immunology and Molecular Genetics,	Targeting Alternative Pre-mRNA Splicing in Small Cell Prostate Cancers	Developmental Research
Paul Boutros	2021-22	Human Genetics	Expanding the Prostate Cancer Proteome: Identity & Function of Non-Canonical ORFs	Developmental Research

Huihui Ye	2021-22	Pathology and Laboratory Medicine	Identification of the Key Immune Inhibitory Molecules in "Hot" Prostate Cancer of African American Men, a Spatial Transcriptomic Approach	Developmental Research
Christine Mona	2021-22	Molecular and Medical P	Enhancing prostate cancer immunogenicity by combining radioligand therapy (RLT) with cGAS/STING agonists	Career Enhancement
Leigh Ellis	2021-22	Urologic Oncology	Novel mechanistic determination and actionable therapeutic targets for androgen indifferent castration-resistant prosate cancer	Developmental Research
Ajit Divakaruni	2021-22	Molecular and Medical P	Targeting fatty acid oxidation to treat antiandrogen-resistant prostate cancer	Career Enhancement

