



## Siteman Investment Program (SIP) Awardees

The Siteman Investment Program is designed to award pilot funding to faculty investigators to support pioneering cancer research and produce data to leverage external peer reviewed funding.

**2019 Cycle 1**

**Award State Date: July 1, 2019**

### Pre-R01 Award

#### **Luis Batista, PhD**

Rescue of HNF4a levels restores hepatocyte function and prevents end-stage liver disease and cancer in patients with impaired telomere maintenance

#### **Colin Flaveny, PhD (Saint Louis University)**

Targeting LXR regulation of prostate cancer immunometabolism

#### **Michael Holtzman, MD**

Reprogramming epithelial stem cells in triple-negative breast cancer

#### **James Janetka, PhD**

The role of pericellular serine proteases in tumor progression and resistance to anticancer therapy

#### **Charles Kaufman, MD, PhD**

Defining Transcriptional Regulators of Melanoma Initiation

#### **Jeffrey Magee, MD, PhD**

Cooperating mutations and resistance to FLT3-ITD inhibition in pediatric acute myeloid leukemia

#### **Jinsong Zhang, PhD (Saint Louis University)**

Lysine acetylation of human histone deacetylase 3 as a new cancer target

### Multi-PI Pre-R01 Award

#### **Nima Mosammaparast, MD, PhD and Kory Lavine, MD, PhD**

Alkylating Chemotherapies Promote Heart Failure by Targeting Tissue Resident Cardiac Macrophages

### New & Established Clinical Trial Award

#### **Jian Campian, MD, PhD**

Role of a novel IL-7 agonist, rhIL-7hyFc, in immune reconstitution in patients with gliomas

#### **Russell Pachynski, MD**

Personalized Neoantigen Vaccine Immunotherapy for Prostate Cancer

#### **Gregory Vlacich, MD, PhD**

A Single-Arm Phase II Study with a Safety lead-in of Magnetic Resonance-Guided Hypofractionated Adaptive Radiation Therapy with Concurrent Chemotherapy and Consolidation Durvalumab for Inoperable Stage IIB and IIIA Non-small Cell Lung Cancer



**2018 Cycle 2**  
**Award Start Date: January 1, 2019**

Pre-R01 Award

**Yin Cao, ScD, MPH**

Oral Microbiome, Virome, and Barrett's Esophagus

**Simon Haroutounian, PhD, MSc**

Intravenous lidocaine for preventing oxaliplatin-induced peripheral neuropathy (OIPN)

**Aimee James, PhD, MPH**

Pilot implementation and feasibility assessment: Multilevel intervention to reduce rural colon cancer disparities

**Julie Schwarz, MD, PhD**

Radio-sensitization by free fatty acid supplementation in cervical cancer

**John Welch, MD, PhD**

Retinoid therapy in acute myeloid leukemia

Multi-PI Pre-R01 Award

**Rebecca Aft, MD, PhD; Mark Watson, MD, PhD; and, Leonel Hernandez-Aya, MD**

Genomic Classification and Targeted Immunotherapy of Disseminated Tumor Cells (DTCs) in Breast Cancer Patients

Team Science Award

**Todd Fehniger, MD, PhD and Brad Kahl, MD**

Advancing Therapies for Incurable Lymphomas via Translational Team Science

**2018 Cycle 1**  
**Award Start Date: July 1, 2018**

Pre-R01 Award

**Milan Chheda, MD**

The role of ZFH4 in the glioblastoma tumor propagating cell state

**Tahir Rahman, MD**

Antipsychotics and Breast Cancer

**Ryan Teague, PhD (Saint Louis University)**

Obesity as an obstacle to cancer immunotherapy

**Brian Van Tine, MD, PhD**

Using Arginine Metabolism to Treat Sarcomas

**Alessandro Vindigni, PhD (Saint Louis University)**

Role of PrimPol in BCRA1-deficient tumors



Multi-PI Pre-R01 Award

**Delphine Chen, MD and Andrea Wang-Gillam, MD, PhD**

Imaging PARP levels to predict DNA-damaging agent treatment responses in pancreatic cancer

**Cynthia Ma, MD, PhD and Jason Held, PhD**

NEK9-MAP2K4: A Novel Signaling Axis Promoting Breast Cancer Growth and Chemotherapy Resistance

**Joshua Rubin, MD, PhD; Joseph Ippolito, MD, PhD; and, Kwee L. Thio, MD, PhD**

Combined ketogenic diet and BCNU for recurrent pediatric brain tumors

**2017 Cycle 2**

**Award Start Date: January 1, 2018**

Pre-R01

**Grant Challen, PhD**

The Role of Interferon Gamma Signaling in the Clonal Evolution of Pre-Leukemic Stem Cells

**Jaebok Choi, PhD**

IFN $\gamma$ R and IL6R Signaling Pathways as Therapeutic Targets to Prevent GvHD While Preserving GvL

**David DeNardo, PhD**

The Impact of Macrophage Origin on the Pathogenesis of Pancreatic Cancer

**Gavin Dunn, MD, PhD**

Development of an Immunocompetent Autochthonous Model of Glioblastoma

**Kristen Naegle, PhD**

Discovering the Role of Phosphorylation in the Pleckstrin Homology Domain

**Jacqueline Payton, MD, PhD**

Defining the Role of Long Non-Coding RNAs in Lymphoma Pathogenesis

**Lukas Wartman, MD**

The Role of the Histone Demethylase KDM6A in Acute Leukemia

Multi-PI Pre-R01

**Buck Rogers, PhD and Dong Zhou, PhD**

Treatment of Metastatic Prostate Cancer with Radioactive PARP Inhibitors

Pre-SPORE/PPG

**Tim Ley, MD**

Genomics of Acute Myeloid Leukemia



**2017 Cycle 1**  
**Award Start Date: July 1, 2017**

Pre-R01

**Jianguo Liu, MD, PhD**, Saint Louis University  
Posttranscriptional control of breast tumor growth and metastasis

**Lee Ratner, MD, PhD**  
Role of IRF4 in HTLV-Associated Adult T Cell Leukemia Lymphoma

**Michael Rettig, PhD**  
Development of a Superior Mobilizing Regimen for Hematopoietic Stem Cell Transplantation

**Amit Pathak, PhD**  
Memory-Plasticity Crosstalk in Cancer Cells

Multi-PI Pre-R01

**Roberta Faccio, PhD and Roberto Civitelli, MD**  
Characterization and Tumorigenic Action of Osteolineage Cells in the Breast Cancer Microenvironment

**Joel Garbow, PhD; Keith Rich, MD; and, Christina Tsien, MD**  
Post-XRT Effects in Brain Parenchyma Promote Dramatic Changes in Glioma Phenotype

Pre-SPORE/PPG

**Jason Mills, PhD, MD**  
Mechanisms of Gastrointestinal Adenocarcinoma Tumorigenesis

**2016 Cycle 2**  
**Award Start Date: January 1, 2017**

Pre-R01 WUSM

**James Skeath, PhD**  
A genetic model of perineural invasion

**Steven Teitelbaum, MD**  
Fatty liver promotes hepatic breast cancer metastasis

**Zhongsheng You, PhD**  
Nonsense-mediated mRNA decay in DNA damage response

Multi-PI Pre-R01

**Nima Mosammaparast, MD, PhD and Hani Zaher, PhD**  
RNA as a target of alkylation chemotherapy in cancer

**Terence Myckatyn, MD and Mary Politi, PhD**  
Optimizing Decision Making about Breast Reconstruction after Mastectomy: A Patient-Centered Approach



**Jay Piccirillo, MD; Alex Wong, PhD; Bradley Schlaggar, MD, PhD; and, Lindsay Peterson, MD**

Evaluating Cognitive Function and Functional Connectivity in Breast Cancer Survivors Who Received Chemotherapy

Pre-SPORE/PPG

**William Gillanders, MD**

Siteman Cancer Center Breast Cancer SPORE

**2016 Cycle 1**

**Award Start Date: July 1, 2016**

Pre-R01 Award

**Jeffrey Bednarski, MD, PhD**

DNA Damage Mediated Checkpoints in Early B Cell Development

**Ron Bose, MD, PhD**

Targeting HER2 activating mutations in Metastatic Breast Cancer

**Christopher Maher, PhD**

The role of onco-lncRNA-230 as an epigenetic regulator of colon cancer metastasis

**Jieya Shao, PhD**

Functional Regulation of DNA Damage Response by the Ubiquitin-Selective Protein Segregase VCP

**Tanya Wildes, MD, MSCI**

Optimizing fall-risk prediction in older adults with cancer

**Sergey Korolev, PhD, Saint Louis University**

Mechanism and inhibition of PALB2 and BRCA2 proteins

Multi-PI Pre-R01

**Kendall Blumer, PhD and Michael Onken, PhD**

Direct pharmacological targeting of Gq/11 in uveal melanoma

**2015 Cycle 2**

**Award Start Date: January 1, 2016**

Pre-R01

**Graham Colditz, MD, DrPH**

Pre-menopausal plasma carotenoids and incident premalignant breast diseases

**Joseph Ippolito, MD, PhD**

Characterizing the Effects of Sexual Dimorphism on Glioma Metabolism

**Albert Kim, MD, PhD**

Regulation of glioblastoma stem-like cells by CDC20-Anaphase-Promoting Complex

**Kian Lim, MD, PhD**

Deactivating the Innate Immune Defense Mechanism of Pancreatic Cancer



**Ryan Teague, PhD**, Saint Louis University

Exploring T cell diversity as a novel mechanism for cancer immunotherapy

Multi-PI Pre-R01

**Jeff Milbrandt, MD, PhD and Aaron DiAntonio, MD, PhD**

Axonal maintenance for prevention of chemotherapy-induced peripheral neuropathy

Pre-SPORE/PPG

**William Gillanders, MD**

Siteman Cancer Center Breast Cancer SPORE

**Greg Longmore, PhD**

Tumor-Environment Communication Regulating Metastasis

**2015 Cycle 1**

**Award Start Date: July 1, 2015**

Pre-R01

**David DeNardo, PhD**

Targeting Focal Adhesion Kinase to Render Pancreatic Cancer Responsive to Immunotherapy

**Todd Fehniger, MD, PhD**

Memory-like natural killer (NK) cells for cancer immunotherapy

Multi-PI Pre-R01

**Matthew Walter, MD and Eric Duncavage, MD**

Role of Subclones and Mutations in the Progression of MDS to Leukemia

*(Award returned due to private funding from a foundation)*

**Dale Dorsett, PhD; Alessandro Vindigni, PhD; and, Susana Gonzalo, PhD**, Saint Louis University

DNA Replication, Nuclear Architecture and Genome Stability

Pre-SPORE

**Jason Mills, MD, PhD**

Mechanisms of Gastrointestinal Adenocarcinoma Tumorigenesis