

Grants Boost Program

Award Recipients

April 2017

Athar Ansari, Biological Sciences

An Investigation into the intron-mediated regulation of transcription by the looped gene architecture

Nerissa Viola- Villegas, Oncology

Delineating Functional Anti-tumor Immunity via Image- Guided PET

November 2016

Robert Atkins, Biochemistry and Molecular Biology

Diagnostic and therapeutic potential of RNA-mediated communication among subpopulations of pathogenic fungi

Catalina Kopetz, Psychology

Mechanisms Underlying Intermittent Compared to Daily Smoking

Shane Perrine, Psychiatry and Behavioral Neuroscience

Enhancing VA Merit Award to study treatment in PTSD and alcoholism

Ren Zhang, Center for Molecular Medicine and Genetics

A boost to an R01 proposal to study the hepatotoxicity of methotrexate

JULY 2016

Mustapha Kandouz, Pathology

Regulation of Autophagy by Direct Cell-Cell Interactions during Breast Cancer Progression

Moh Malek, Health Care Sciences

Transgenerational maternal effect: Aerobic exercise impact on progeny skeletal muscle health

Sidhartha Tan, Pediatrics

Non-apoptotic cell death in fetal brain injury

Yong Xu, Electrical and Computer Engineering

Unobtrusive home physiological and activity monitoring enabled by ultrasensitive motion sensors

Zhengping Yi, Pharmaceutical Sciences

Widespread Insulin Resistance in Tyrosine Phosphorylation in Type 2 Diabetes

MARCH 2016

Fei Chen, Pharmaceutical Sciences

Arsenic-Induced JNK-STAT3 Signaling and Metabolic Shift in Tumor-Initiating Cells

Husam Abu-Soud, Obstetrics and Gynecology
Arginase II regulation of functional oocyte aging

Margaret Campbell, Nursing
Feasibility testing of a hospice family caregiver intervention to improve patient dyspnea care

Zhifeng Kou, Biomedical Engineering and Radiology
Connectome Scale Assessment of Traumatic Brain Injury and Neural Plasticity

Seong Ho Kim, Oncology
Bayesian Volatile Organic Compound (VOC) Identification for SPME-GC/GCMS

Douglas Ruden, Institute of Environmental Health Sciences
Multigenerational Epigenomics of Gestational Exposure to Obesogens in the Mouse

NOVEMBER 2015

Carmen Giurgescu, Nursing
Refining and Pilot Testing an Intervention to Increase Physical Activity in Pregnant Black Women

Menq-Jer Lee, Pathology
Sphingosine-1-phosphate receptor subtype 3/CD44 signaling in trans endothelial invasion of human lung adenocarcinomas

Bonnie Sloane, Pharmacology
Pathomimetic Avatars for Optimizing T Cell Immunotherapy Against Breast Cancer

Moriah Thomason, Pediatrics
The neural connectome in utero predicts preschooler's ability and brain activity

Zeng-Quan Yang, Oncology
Molecular mechanisms and therapeutic potential of the histone-modifying oncogene SETDB1 in human cancer

JULY 2015

Sandro da Rocha, Chemical Engineering
Organelle-targeting Dendrimer Nanoconstructs and their Aerosol Formulation for Lung Cancer Therapy

Xuequn Chen, Physiology
Proinsulin ER export and beta cell ER homeostasis in health

Maik Huttemann, Center for Molecular Medicine and Genetics
Limiting brain reperfusion injury by controlling mitochondrial function

Li Li, Internal Medicine

Actin Cytoskeleton-Regulated Smooth Muscle Inflammation in Atherogenesis.

Raymond Mattingly, Pharmacology

Sprouty4 to Guide Potential Treatment Decisions for Aggressive Versus Indolent DCIS

Guojun Wu, Oncology

Functional Role and Mechanism of I-Branching Beta -1, 6 -N-Acetylglucosaminyl transfer in Breast Cancer Metastasis

Olivia Merkel, Pharmaceutical Sciences

Targeted siRNA Delivery to Activated Tcells as Anti-Inflammatory Asthma Therapy

March 2015

Diane Cabelof, Nutrition and Food Science

"Arsenic inhibits repair of folate-dependent DNA damage through a ribonucleotide-initiated mechanism"

David Gorski, Surgery

"Repurposing riluzole as a treatment for triple negative breast cancer"

Chunying Li, Biochemistry and Molecular Biology

"Chemokine Signaling in EPC Angiogenesis: A Role of Lysine Methylation"

Melody Neely, Immunology and Microbiology

"Functional Analysis of GBS CpsA protein"

Mary Kay Pflum, Chemistry

"Identification of HDAC substrates using Trapping Mutants"

December 2014

Peter Hoffmann, Physics and Astronomy

"Computational and Experimental Studies of Nanoconfined Liquids"

Stephen Krawetz, Obstetrics and Gynecology and Center for Molecular Medicine and Genetics

"RNA Dynamics Mediating Paternal Nuclear Architecture"

Menq-Jer Lee, Pathology

"Signaling of Sphingosine-1-phosphate Receptor Subtype 3 in Lung Carcinoma"

Naftali Raz, IOG

"Age Differences and Stability of Noninvasive Indices of Brain Energy Metabolism and Myelin"

Paul Stemmer, IEHS and **Barbara Pieper**, Nursing
“Protein and Cytokine Indicators of Wound Healing Trajectory”

Yong Xu, Electrical and Computer Engineering
“Toward chronically stable 3D multi-functional neural probes”

Zhengping Yi, Pharmaceutical Sciences
“Serine/Threonine Protein Phosphatase 1 in Insulin Resistance and Type 2 Diabetes”

July 2014

Matthew Allen, Chemistry
“Synthetic Control of Heterobimetallic Lanthanide Complexes”

G. Andres Cisneros, Chemistry
“Ammonia/ammonium transport and transamidation mechanism of bacterial AdT”

Stephen DiCarlo, Physiology
“Pathogenesis of NaCl-Dependent Hypertension”

Rodrigo Fernandez-Valdivia, Pathology
“Breast tumor suppression by Notch signaling obliteration”

Russell Findley, Center for Molecular Medicine and Genetics
“DroID

March 2014

Stephen DiCarlo, Physiology
“Vagal plasticity after cord injury exacerbates post-infarct cardiac remodeling”

Hyeong-Reh Kim and Daniel Bonfil, Pathology and Urology
“Prostate carcinoma-produced PDGF signaling in bone metastasis and racial disparity”

Todd Leff, Pathology
“Metabolic effects of Pb”

Mary Kay Pflum, Chemistry
“Identification of Histone Deacetylase Substrates using trapping mutants”

Malathy Shekhar and Harini Sundararaghavan, Oncology and Biomedical Engineering
“Tissue engineered 3D models of breast cancer metastatic disposition and biology”

Stanley Terlecky, Pharmacology
“Peroxisome Targeted Protein Biologic for Treatment of a Single Enzyme Deficiency”

Gen Sheng Wu, Oncology

“A novel role for MKP-1 in regulation of Autophagy”

Zeng-Quan Yang, Oncology

“Molecular Mechanisms and therapeutic potential of the histone-modifying oncogene KDM4C in castration-resistant prostate cancer”

Zhe Yang, Biochemistry and Molecular Biology

“Structural Insights into Deregulated Epigenetic Mechanisms and DNA Demethylation in Bone Marrow Failure Disease”

November 2013

Athar Ansari, Biological Sciences

“Role of gene looping in intron-mediated regulation of transcription”

Mark Ming-Cheng Cheng, Electrical and Computer Engineering

“In-situ Characterize the Formation and Aging of Solid-Electrolyte Interphase Using Nanomechanics”

Alexander Gow, Center for Molecular Medicine and Genetics

“Neurodegeneration associated with metabolic stress in oligodendrocytes”

Mark Haacke, Radiology and Biomedical Engineering

“The Role of Vascular Damage and Reduced Perfusion in Traumatic Brain Injury”

Gilda Hillman, Radiation Oncology

“Soy Modulation of Inflammatory Responses Induced by Lung Cancer Radiotherapy”

Menq-Jer Lee, Pathology

“Signaling of Shingosine-1-phosphate Receptor Subtype 3 in Lung Carinoma”

Peter Lichtenberg, Institute of Gerontology

“Improving the Assessment of Financial Exploitation”

Olivia Merkel, Pharmaceutical Sciences

“Targeted siRNA delivery to activated T cells as novel asthma therapy”

Susil Putatunda, Chemical Engineering

“Synthesis of Superconducting Thin films of Magnesium diboride by Electroless Plating Process”

Youming Xie, Oncology

“Cotranslational protein degradation”