

Grants Boost 2015 Recipients

March

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

July

Xuequn Chen, Physiology

Proinsulin ER export and beta cell ER homeostasis in health and diabetes

Maik Huttemann, Center for Molecular Medicine & 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

Olivia Merkel, Pharmaceutical Science

Targeted siRNA delivery to activated Tcells as anti-inflammatory asthma therapy

Sandro Rocha, Chemical Engineering

Organelle-targeting Dendrimer Nanoconstrcuts and their Aerosol Formulation for Lung Cancer Therapy

Guojun Wu, Oncology

*Functional Role and Mechanism of I-Branching Beta -1, 6 –
NAcetylglucosaminyltransferase
in Breast Cancer Metastasis*

Grants Boost 2014 Recipients

December

Peter Hoffmann, Physics and Astronomy

Computational and Experimental Studies of Nanoconfirmed Liquids

Stephen Krawetz, Obstetrics and Gynecology and CMMG

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

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, a comprehensive gene and protein interactions database

March

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*

Grants Boost 2013 Recipients

November

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