

# Grants Boost Recipients

## 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”

## July

**Sandro da Rocha**, Chemical Engineering

*Organelle-targeting Dendrimer Nanoconstrcuts and their Aerosol Formulation for Lng 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 T cells as Anti-Inflammatory Asthma Therapy*

## **NOVEMBER**

**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*

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## December 2014

**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 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, a comprehensive gene and protein interactions database”

## **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”

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## 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”