Faculty Competition for Post-Doctoral Fellows

Award Recipients

December 2016

Kang Chen, Obstetrics and Gynecology
*Function of Maternal Immunoglobulin D in the Protection against Neonatal Respiratory Infection and Allergy*

Mohammad Mehrmohammadi, Biomedical Engineering
*Endocavity Ultrasound and Photoacoustic (ECUSPA) Imaging for Non-invasive, Real-time Fetal Cerebral Oxygen Measurement*

Fatmir Menkulasi, Civil and Environmental Engineering
*Development of Structural Applications Using Ultra High Performance Concrete and Fiber Reinforced Polymer Composites*

Post-Doctoral Fellow: Dr. Hadi Baghi
Fellow’s University: University of Minho

Mohammadreza Nasiriavanaki, Biomedical Engineering and Neurology
*“Transfontanelle Photoacoustic Imaging Probe: Towards Neonatal Functional Brain Imaging”*

May 2016

Alana Conti, Neurology
*Traumatic Brain Injury-Induced Alterations in Synaptic Function and the Effects on Alcohol Sensitivity*

Post-Doctoral Fellow: Dr. Amanda Bolton Hall
Fellow’s University: University of Kentucky

Stephen Krawetz, Obstetrics and Gynecology
*Response of the Paternal Genome to the Environment*

Post-Doctoral Fellow: Dr. Jimmaline J. Hardy
Fellow’s University: Morehouse School of Medicine

Jessica Robbins-Ruszkowski, Anthropology
*Aging, Health, and Social Relations in Post-Industrial Urban Contexts*

Post-Doctoral Fellow: Dr. Kimberly Seibel
Fellow’s University: Northwestern University

NOVEMBER 2015

Anjan Kowluru, Medicine
Mechanisms of Islet B-Cell Dysfunction in Diabetes
Post-Doctoral Fellow: -
Fellow’s University:

Zhiqiang Cao, Engineering
Zwitterionic Material for Islet Encapsulation
Post-Doctoral Fellow: -
Fellow’s University:

Charles Chung, Medicine
Mechanisms of Diastolic Relaxation in Normal and Diseased Hearts
Post-Doctoral Fellow: -
Fellow’s University:

Chunying Li, Medicine
OVPR Faculty Competition for Postdoctoral Fellows Funding Application
Post-Doctoral Fellow: -
Fellow’s University:

Alexey Petrov, Physics
Identifying New Physics at LHC and in Cosmos
Post-Doctoral Fellow: Bhubanjyoti (Bhujjo) Bhattacharya
Fellow’s University: University of Chicago

Mary Kay H. Pflum, Chemistry
Chemical Approaches to Mapping Cell Signaling Pathways
Post-Doctoral Fellow: -
Fellow’s University:

Christine Rabinak, Medicine
Effects of the Cannabinoid System on Retention of Memory for Fear Extinction Learning
Post-Doctoral Fellow: -
Fellow’s University:

Douglas Ruden, Environmental Health Sciences
Shared Postdoctoral Fellowship for Single Cell Sequencing Core
Post-Doctoral Fellow: Dr. Katherine Gurdziel
Fellow’s University: University of Michigan

May 2015

Li Li, Internal Medicine
The roles of cytoskeleton remodeling in arterial stiffness
Post-Doctoral Fellow: -
Fellow’s University:
Patrick Mueller, Physiology
*Inactivity and Enhanced Sympathoexcitation-Role of Neuroplasticity in the RVLM*
Post-Doctoral Fellow: -
Fellow’s University: -

**NOVEMBER 2014**

Donal O’Leary, Physiology
*Blood Pressure Control During Exercise in Heart Failure*
Post-Doctoral Fellow: -
Fellow’s University: -

Jeffrey Ram, Physiology
*Molecular Automated Technologies for Detecting Organisms Harmful to the Great Lakes*
Post-Doctoral Fellow: Dr. Banani Sem
Fellow’s University: University of Illinois Chicago

Hayley Thompson, Oncology
Susan Eggly, Oncology
*Associations Between eHealth Activity, Patient-Provider Communication, and Health Outcomes in a Diverse Population of Cancer Survivors*
Post-Doctoral Fellow: Dr. Nicole Senft
Fellow’s University: Georgetown University

Zhengping Yi, Pharmaceutical Sciences
*Dysfunctional Protein Phosphatase 2A in Type 2 Diabetes*
Post-Doctoral Fellow: -
Fellow’s University: -

Kequan Zhou, Nutrition and Food Science
*Development of Anti-Diabetic Nutritional Agents with Probiotics and Grape Skin Extract*
Post-Doctoral Fellow: -
Fellow’s University: -

May 2014

Leela Arava, Mechanical Engineering
Simon Ng, Chemical Engineering
*Design and Development of High Energy and Safe Li-ion Batteries*
Post-Doctoral Fellow: Dr. Venkateswara Rao Chitturi
Fellow’s University: Indian Institute of Technology Madras, India

Edward Cackett, Physics & Astronomy
*Accretion onto black holes and neutron stars*
Post-Doctoral Fellow: -
Fellow’s University: -

Mark Ming-Cheng, Electrical and Computer Engineering
Yong Xu, Electrical and Computer Engineering
*The development of next-generation miniaturized high intensity focused ultrasound for therapeutic applications*
Post-Doctoral Fellow: Dr. Jinjun Xia
Fellow’s University: University of Missouri - Columbia

Miriam Greenberg, Biological Sciences
Perturbation of the TCA cycle in tafazzin-deficient cells
Post-Doctoral Fellow: -
Fellow’s University: -

Izabela Podgorski, Pharmacology
*Investigating functional role of bone marrow adipocytes in metabolic adaptation and chemoresistance of bone-metastic prostate cancer*
Post-Doctoral Fellow: Dr. Halina Chkourko Gusky
Fellow’s University: -

Jinsheng Zhang, Communication Sciences and Disorders
*A Novel Cochlear Electrical Stimulation Device for Tinnitus Therapy*
Post-Doctoral Fellow: Dr. Ruishuang Geng
Fellow’s University: Ohio State University

NOVEMBER 2013

Andre Cisneros, Chemistry
*Computational Investigation of DNA dealkylase enzymes, development and application*
Post-Doctoral Fellow: Dr. Eric Kratz, University of Pittsburgh
Fellow’s University: University of Pittsburgh

Moriah Thomason, Merrill Palmer Skillman Institute and Pediatrics
*Identification of brain biomarkers for Autism and other developmental disorders in utero*
Post-Doctoral Fellow: Dr. Janessa Manning, University of Texas
Fellow’s University: University of Pittsburgh

May 2013

Robert Harr, Physics and Astronomy
Paul Karchin, Physics and Astronomy
*Commissioning of the Upgraded Muon Detector of the Compact Muon Solenoid Experiment at CERN and Search for Evidence of New Particles*
Post-Doctoral Fellow: Dr. Jared Sturdy
**Fellow’s University:** UC Riverside

**Donald Kuhn,** Psychiatry and Behavioral Neurosciences  
*Sports-related Repetitive Mild Traumatic Brain Injury: Psychiatric and Histopathological Manifestations*  
**Post-Doctoral Fellow:** Dr. John H. Anneken, University of Cincinnati  
**Fellow’s University:** University of Cincinnati

**David Ledgerwood,** Psychiatry and Behavioral Neurosciences  
*Post-doctoral position in Gambling Disorder and Addiction Treatment Research*  
**Post-Doctoral Fellow:** Dr. Jamey Lister  
**Fellow’s University:** Rutgers University School of Social Work

**Cathy Lysack,** Gerontology  
*Long-term Outcomes, Life Disrupting Abilities, and Re-building Meaningful Lives*  
**Post-Doctoral Fellow:** Dr. Heather Fritz  
**Fellow’s University:** University of North Carolina

**Noa Ofen,** Gerontology  
**Naftali Raz,** Gerontology  
*Neural Correlates of Age-Related Differences in Memory: A Life-Span Approach*  
**Post-Doctoral Fellow:** Dr. Andrea Shafer, University of Alberta  
**Fellow’s University:** University of Alberta, Canada

**Peter Savolainen,** Civil and Environmental Engineering  
*Synergistic Transportation - Integrating Safety, Mobility, & Economics*  
**Post-Doctoral Fellow:** Dr. Erdong Chen  
**Fellow’s University:** Purdue University, West Lafayette, Indiana

**Arthur Suits,** Chemistry  
*Universal Probes of Astrochemical Dynamics*  
**Post-Doctoral Fellow:** Dr. Lindsay Zack  
**Fellow’s University:**

**NOVEMBER 2012**

**Kang Chen,** Obstetrics and Gynecology  
*Immunoregulatory Functions of B Cells in Pregnancy*  
**Post-Doctoral Fellow:** Dr. Azure Faucette  
**Fellow’s University:** Texas A&M University

**Susan Eggly,** Oncology  
*Understanding and Improving Verbal and Nonverbal Communication in Oncologist-Patient Clinical Interactions in a Diverse, Urban Patient Population*  
**Post-Doctoral Fellow:** Dr. Lauren Hamel
Fellow’s University: Michigan State University

Wen Li, Chemistry
*Time-Resolved Studies of Orbital Polarization in Photodissociation of Small Molecules: the Long-Range Effect*
Post-Doctoral Fellow: -
Fellow’s University:

Jeffrey Ram, Physiology
*Molecular and Automated Technologies for Detecting Organisms Harmful to the Great Lakes*
Post-Doctoral Fellow: Dr. Masanori Fujimoto
Fellow’s University: Michigan State University

May 2012

Jian Huang, Physics & Astronomy
*Topological quantum orders in fractional quantum hall regime*
Post-Doctoral Fellow: -
Fellow’s University:

Donna Kashian, Biological Sciences
*Development of a risk policy framework for a novel method in identifying invasive species*
Post-Doctoral Fellow: Dr. Alisha Davidson
Fellow’s University: University of Tasmainia

Steven Ondersma, Psychiatry & Behavioral Neurosciences and Merrill Palmer Skillman Institute
*Interactive technology to improve child outcomes in at-risk urban families*
Post-Doctoral Fellow: Dr. Kathleen McGoron, University of New Orleans
Fellow’s University: University of New Orleans

Alexey Petrov, Physics & Astronomy
*Identifying New Physics from LHC and Astrophysical Measurements*
Post-Doctoral Fellow: Dr. Matthew Gonderinger
Fellow’s University: University of Wisconsin at Madison

Michael Rybak, Pharmacy Practice
*Evaluation of Novel Antibiotic Combinations with Daptomycin Against Biofilm Embedded Staphylococci*
Post-Doctoral Fellow: Dr. Jordan Smith
Fellow’s University: Wayne State University

Bonnie Sloane, Pharmacology and Oncology
David Gorski, Pharmacology and Oncology
*Defining Druggable Cytokine Pathways in Lymphatic Metastasis of Breast Cancer*
Post-Doctoral Fellow: Dr. Kyungmin Ji
Fellow’s University: Ajou University, South Korea

NOVEMBER 2011

Steven Firestine, Pharmaceutical Sciences
*Elucidating the Mechanism of Bacterial N5-CAIR Synthetase*
Post-Doctoral Fellow: -
Fellow’s University:

David Oupicky, Pharmaceutical Sciences
*Development of Polymeric Prodrugs with Dual Functionality for the Delivery of Therapeutic Nucleic Acids*
Post-Doctoral Fellow: Dr. Robert A. Roggers
Fellow’s University: Michigan State University

Monica Uddin, Psychiatry and Behavioral Neurosciences
*Epigenomic Neurodevelopmental Predictors of Adult Psychopathology*
Post-Doctoral Fellow: Dr. Liza Nevell
Fellow’s University: George Washington University

Wei-Zen Wei, Oncology
*Cancer Vaccines and Immune Regulation*
Post-Doctoral Fellow: Dr. Jennifer Oliver
Fellow’s University: University of Michigan

Zhengping Yi, Pharmaceutical Sciences
*Glycogen Synthase Phosphorylation in Insulin Signaling*
Post-Doctoral Fellow: Dr. Michael Caruso
Fellow’s University: North Dakota State University

May 2011

Mahendra Kavdia, Biomedical Engineering
*Systems Biology of Oxidative & Nitrosative Stress in Cardiovascular Disorders*
Post-Doctoral Fellow: -
Fellow’s University:

Thomas Kocarek, Institute of Environmental Health Sciences
*Regulation of Hepatic P450s by Anti-Cholesterol Drugs*
Post-Doctoral Fellow: Dr. Elizabeth Rondini
Fellow’s University: Michigan State University

Xiaoming Li, Pediatrics
*Resilience-based Psychosocial Intervention for Children Affected by HIV*
Post-Doctoral Fellow: Dr. Traci Weinstein
Fellow’s University: University of Illinois at Chicago
Valerie Simon, Merrill Palmer Skillman Institute  
*The Emergence of Sexual Risk Among Sexually Abused Adolescent Females*  
**Post-Doctoral Fellow:** Dr. Nicole M. Fava  
**Fellow’s University:** University at Buffalo

Bonnie Sloane, Pharmacology  
*Paracrine Cytokine/Chemokine Pathways in Progression of Ductal Carcinoma in Situ to Invasive Ductal Carcinoma*  
**Post-Doctoral Fellow:** Dr. Kingsley Osuala  
**Fellow’s University:** University of South Florida

James Granneman, Psychiatry and Behavioral Neurosciences  
*Analysis of Lipolytic Trafficking in Adipocytes; A Genetically-encoded Fatty Acid Sensor; Development of HTS for Novel Lipolytic Activators; Analysis of Lipolytic Trafficking in Muscle*  
**Post-Doctoral Fellow:** Dr. Michelle Angrish  
**Fellow’s University:** Michigan State University

---

**NOVEMBER 2010**

Terrance Albrecht, Oncology  
*Breast Density, Novel Imaging Technology and Intergenerational Risk Communication for Improving Heritable Breast Cancer Outcomes in African Americans*  
**Post-Doctoral Fellow:** Dr. Mark Manning  
**Fellow’s University:** University of Massachusetts

Alana Conti, Neurosurgery  
*Traumatic Brain Injury-Induced Alterations in Synaptic Function and the Effects on Alcohol Sensitivity*  
**Post-Doctoral Fellow:** Dr. Hall & Dr. Jessica J. Matchynski  
**Fellow’s University:** University of Kentucky and Central Michigan University

Robert Lasley, Physiology  
*Adenosine Receptor Modulation of Post Myocardial Infarction Fibroblast Function*  
**Post-Doctoral Fellow:** -  
**Fellow’s University:** Aligarh Muslim University, India

Patrick Mueller, Physiology  
*Inactivity and Enhanced Sympathoexcitation-Role of Neuroplasticity in the RVLM*  
**Post-Doctoral Fellow:** -  
**Fellow’s University:**

Takeshi Sakamoto, Physics and Astronomy  
*First Evidence of Nucleous Myosin XVI: Simultaneous Observation of Nanometer Motion and Enzymatic Pathway*
Charles Winter, Chemistry
*Low Temperature ALD Growth of Transition Metal and Transition Metal Alloy Thin Films*

**Post-Doctoral Fellow:** Dr. Heather Marie Bass  
**Fellow’s University:** The University of Tennessee, Knoxville

Yong Xu, Electrical and Computer Engineering
*Development of Next-Generation Neural Interface Devices*

**Post-Doctoral Fellow:** Dr. Bin Liu  
**Fellow’s University:** Qingdao University, China

**MAY 2010**

Shane Perrine, Psychiatry
*Is there a neurobiological basis for comorbidity of posttraumatic stress disorder and substance abuse?*

**Post-Doctoral Fellow:** Dr. Andrew Eagle, Central Michigan University  
**Fellow’s University:** Central Michigan University

**NOVEMBER 2009**

Anjan Kowluru, Beta Cell Research
*Studies of Islet β-Cell Dysfunction in Diabetes*

**Post-Doctoral Fellow:** Dr. Andrea N. Faris  
**Fellow’s University:** Michigan State University

Dawn Misra, Family Medicine & Public Health Sciences
*Risk Factors for Preterm Birth in Black Women*

**Post-Doctoral Fellow:** Dr. Jennifer Kornosky Straughen  
**Fellow’s University:** University of South Florida

Douglas Ruden, Institute of Environmental Health Sciences
*Postdoctoral Fellowship for Expanding Epigenomics Research at WSU*

**Post-Doctoral Fellow:** Dr. Marie-Claude Senut  
**Fellow’s University:** Pasteur Institute in Paris, France

Mary Rodgers, Chemistry
*Development of Improved Techniques for the Detection and Quantification of Post-Translational Modifications in Proteins*

**Post-Doctoral Fellow:** Dr. Katherine E. Hersberger/Zhihau Yang  
**Fellow’s University:** University of Michigan

Pamela VandeVord, Biomedical Engineering
Blast Related Neurotrauma
Post-Doctoral Fellow: Dr. Carolyn Hampton
Fellow’s University: Virginia Tech

Rafael Fridman, Pathology
Development of Improved Techniques for the Detection and Quantification of Post-Translational Modifications in Proteins
Post-Doctoral Fellow: -
Fellow’s University: -

May 2009

Paula Dore- Duffy, Neurology
Normobaric hypoxia is neuroprotective in traumatic brain injury
Post-Doctoral Fellow: Dr. Rachel Dennis (terminated)
Dr. Rakhi Sharma
Fellow’s University: Medical University of Vienna

Steven Firestine, Pharmaceutical Sciences
Elucidating the Mechanism of Bacterial N5-CAIR Synthetase
Post-Doctoral Fellow: Dr. Melissa Topper, University of South Florida
Fellow’s University: University of South Florida

Donald Kuhn, Psychiatry & Behavioral Neurosciences
Traumatic Brain Injury: Involvement of Microglia and Neutrophils
Fellow’s University: Pennsylvania State University

Steven Ondersma, Psychiatry & Behavioral Neurosciences
Interactive technology to improve child outcomes in at-risk urban families
Post-Doctoral Fellow: -
Fellow’s University: -

Alexey Petrov, Physics and Astronomy
Theoretical Issues in LHC Physics
Post-Doctoral Fellow: Dr. Andrew Blechman
Fellow’s University: Johns Hopkins University

David Rueda, Chemistry
Single Molecule Studies of Splicing in Cell Extracts
Post-Doctoral Fellow: Dr. Amanda Solem
Fellow’s University: Yale University
Arthur Suits, Chemistry
New Directions in Proteomics with Coupled Electrostatic Ion Traps
Post-Doctoral Fellow: Dr. Michael Hause
Fellow’s University: Carroll College

Wei-Zen Wei, Immunology/Microbiology
Regulatory T cells in cancer immunotherapy and autoimmunity
Post-Doctoral Fellow: Dr. Ilham Bettahi
Fellow’s University: University of Gothenburg, Sweden