

POSTDOCTORAL SCHOLARS: FRONTIERS OF INNOVATION SCHOLARSHIPS
AMOUNT REQUESTED: \$25,000

Research Area	Proposal Title	Trainee	Trainee Home Department	Principal Investigator (PI)	PI Home Department
Enriching Human Life and Society	Multistep 18F-PET imaging of pancreatic cancer via internalized EGFR	Alexander, Seth C.	Chemistry and Biochemistry	Devaraj, Neal K.	Chemistry and Biochemistry
Enriching Human Life and Society	Investigating the role of ACBD5/Atg37 in pexophagy and retinal dystrophy	Zientara-Ritter, Kasia	Division of Biological Sciences	Subramani, Suresh	Division of Biological Sciences
Enriching Human Life and Society	Nanoparticle-stabilized liposomes for in vivo antimicrobial treatment of Helicobacter pylori	Thamphiwatana, Sorach	Nanoengineering	Zhang, Liangfang	Nanoengineering
Enriching Human Life and Society	Modeling an Experimental Analysis of Membrane-Caveolin Interactions	Supriyo, Ray	Anesthesiology	Rangamani, Padmini	Mechanical Engineering
Enriching Human Life and Society	The Empatheatre Project: Enhancing Compassion, Cognition, and Well-being Among Community Older Adults Through Drama Instruction	Moore, Raeanne	Psychiatry	Eyler, Lisa	Psychiatry
Enriching Human Life and Society	Using 'omics to Study the Effects of Calorie Restriction on Muscle Insulin Action in Aging	LaBarge, Samuel	Orthopaedic Surgery	Schenk, Simon	Orthopaedic Surgery
Enriching Human Life and Society	Engineering Peptide-Polymer Nanomaterials as Novel Drug Delivery Shuttles	Yin, Jian	Skaggs School of Pharmacy and Pharmaceutical Sciences	Gilson, Michael	Skaggs School of Pharmacy and Pharmaceutical Sciences
Enriching Human Life and Society	GPCR heterogeneity in the development and function of distinct neutrophil sub-populations	Denholtz, Matthew	Biological Sciences	Murre, Cornelis	Biological Sciences
Exploring the Basis of Human Knowledge, Learning and Creativity	The effect of β -amyloid in a neural network model of memory and the assessment of Alzheimer's disease therapeutics	Carrico, Zachary	Neuroscience	Malinow, Roberto	Neuroscience
Exploring the Basis of Human Knowledge, Learning and Creativity	Genetic Variations in Schizophrenia, and Functional Implications for Synaptic Signaling	van de Leemput, Joyce	Psychiatry	Tsuang, Ming	Psychiatry
Exploring the Basis of Human Knowledge, Learning and Creativity	Adaptive Software Systems For The Study of Distributed Creativity and Embodied Cognition	Wade, Nathan	Visual Arts	Brown, Sheldon	Visual Arts
Exploring the Basis of Human Knowledge, Learning and Creativity	Autism Spectrum Disorder and the Rhythmic Brain	Minces, Victor	Cognitive Science	Townsend, (Phyllis) Jeanne	Neurosciences
Understanding and Protecting the Planet	Molecular Mechanisms by which Plants Respond to the continuing Rise in Atmospheric [CO ₂].	Azoulay-Shemer, Tamar	Cell and Developmental Biology	Schroeder, Julian	Cell and Developmental Biology
Understanding and Protecting the Planet	Learning from bees: the benefits of signaling noise in collective communication and decision-making	Bell, Heather	Biology, Section of EBE	Nieh, James	Biological Sciences, EBE Section
Understanding and Protecting the Planet	Integrating experimental evolution and computer modeling to understand the genetic basis of low hybrid fitness	Nascimento Pereira, Ricardo J do	Marine Biology Research Division	Burton, Ronald	Scripps Institution of Oceanography
Understanding and Protecting the Planet	Extreme Precipitation and Atmospheric Rivers in a Changing Climate	Ashouri, Hamed	Scripps Inst. Of Oceanography	Ralph, Martin	Scripps Inst. of Oceanography (IOD)
Understanding and Protecting the Planet	Reconstructing a timeline of historical change in coupled human-coral reef systems in the Caribbean to enable effective reef conservation	Cramer, Katie	Scripps Institution of Oceanography	Norris, Richard	Scripps Institution of Oceanography
Understanding and Protecting the Planet	Novel Biomarkers Induced by Climate Change and Oncogenesis	Chen, Jerry	Division of Biology	Pasquinelli, Amy	Division of Biology
Understanding Cultures and Addressing Disparities in Society	A mobile phone communication network to investigate agricultural technology adoption at high spatiotemporal resolution	Abramson, Adam	IRPS	Burney, Jennifer	IRPS
Understanding Cultures and Addressing Disparities in Society	Multi-disciplinary preparation of peer leaders in research ethics	Schairer, Cynthia	Medicine	Kalichman, Michael	Pathology