

AY 2018-19 PURA Awardees

Awardee	Proposal Title	Mentor	Division
Aheumer, Brianna	Learning About Color in the Absence of Vision: A Training Study with Blind Individuals	Marina Bedney	KSAS
Aspinwall, Christina	Determining Solvent Quality's Effect on Polymer Brush Density	Michael Bevan	WSE
Befikadu, Woudese	The Ethiopian Developmental State: Understanding Current Land Tenure Practices	Robbie Shilliam	KSAS
Bhattacharyay, Shubhayu	A Feature-Based Approach to Quantify Motor Activity in Critically Ill Neurological Patients Using an Unobtrusive Wearable Sensor Matrix	Robert Stevens	SOM
Chen, Anna	Manipulating the mTOR Pathway to Improve T-cell Function in Cancer Immunotherapy	Jonathan Schneck	SOM
Chen, Theresa	Integrating Protein Mediators to Develop Enhanced Acellular sTEVGs for Vascularization in Mice	Sharon Gerecht	WSE
Cho, Justin	Using Local Google Search Trends to Predict Violent Crime in Baltimore: An Interdisciplinary Approach	Rebecca Fix	BSPH
Cohn, Elizabeth	Energy-Based Control for Low Inertia Power Systems	Enrique Mallarda Garcia	WSE
Ferguson, Rafael	The Setbacks of Sunscreen: Toxicity investigation of transformation products from UV exposure and oxidation of benzophenone UV-filters	Carsten Prasse	WSE
Gao, Tina	Engineering a Novel Material for Plasmonic Photocatalytic Systems	Susanna Thon	WSE
Gilligan-Steinberg, Shane	Analyzing and Quantifying Mosaic VSG Formation in <i>Trypanosoma brucei</i>	Monica Mugnier	BSPH
Gopal, Preethi; Patel, Milan; & Singh, Shikha	Project Healthy Schools - Sri Lanka: Examining the International and Cross-Cultural Impact of a Diabetes Prevention Program (<i>Group Project</i>)	Gilbert Burnham	BSPH
Goyal, Archita	Identifying Neural Networks Activated by Contextual Fear Memory in Mecp2+/- Mice	Constance Smith-Hicks	SOM
Grusby, Rebecca	Improving Hemocompatibility and Anti-Biofouling of 3D-Printed Cardiovascular Conduits Through Surface Modifications	Sung Hoon Kang	WSE
Grzyb, Chloe	Neurofilaments as biomarkers of disease activity in spinal muscular atrophy	Charlotte Sumner	SOM
Hammonds, Maya	SNPC-4 and SIM-6 are required for male-specific piRNA expression in <i>C. elegans</i>	Rebecca Tay	KSAS
Hartner, Anna-Maria	Efficacy of Low-Cost Air Pollution Sensors for Public Health Fieldwork in Uganda	Darryn Waugh	KSAS
He, Jiaqi	Implications of Agricultural Land Transfer on Social Equities in Rural China	Joel Andreas	KSAS
Hebson, Atticus	Bringing the Music of Laurence Crane to Baltimore	Oscar Bettison	PEA
Hernandez, Nicole	Investigating the effect of vaginal gel formulation on cervicovaginal mucus barrier properties	Laura Ensign-Hodges	SOM
Jacob, Lauren	Wind-Tunnel Testing and Analysis of Flow-Induced Flutter in Permeable Membranes	Rajat Mittal	WSE
Klein, John	Research on John Keats' Shifting Aesthetics & Influences	Jared Hickman	KSAS
Lai, Mofan	Is Performing Different From Playing?	Susan Weiss	PEA
Li, Lisa	Modeling Underlying Forms in Natural Languages	Jason Eisner	WSE
Liang, Annie	Parameters influencing arrhythmia inducibility in the post myocardial infarcted (MI) heart arising from treatment with PSC- Natalia Trayanova		WSE
	CM cell sheets		

Liu, Sarah	Translation and Philology: An Examination of François Cheng	Christopher Cannon	KSAS
Luo, Nancy	Disruption of Sleep-dependent Excitation-Inhibition Balance Regulation in Autism Mouse Models	Alfredo Kirkwood	SOM
Mai, Melissa	Stochastic Hydrodynamic Modeling of Membrane Protrusions	Brian Camley	KSAS
Nagpal, Anisha	Barriers to Implementation for School-based Sexual Health Interventions in Baltimore City	Beth Marshall	BSPH
Navarro, Dante	Using Wearable Technology to Measure Change in Functional Capacity Following Interventional Pain Procedure	Peter Searson	WSE
Nguyen, Melody	Identifying in vivo modifiers of nemaline myopathy causing actin mutations	Anthony Cammarato	SOM
Nnadi, Chidinma	Probing the Effect of Sequence Variations on Vectorial Folding of the Oryza sativa Twister Ribozyme	Sarah Woodson	KSAS
Pandey, Shivani	Development of an optogenetic system for point-pacing cardiomyocytes in vitro	Geran Kostecki	SOM
Prabhakar, Ramya	Leaving the Past Behind: An Examination of Identity Shifts Over Time for Palestinian Refugees in Amman	Matthew Kocher	SAIS
Pradeep, Aishwarya	The Role of Low Threshold Mechanoreceptors in Peripheral Nerve Injury	Michael Caterina	SOM
Roura, Raul	HEARS: Adapting a community health worker approach to basic hearing care for low-income older adults in the Baltimore Hispanic Community	Carrie Nieman	SOM
Singireddy, Shreya	The functional interplay between ALG-1 and ALG-2 Argonaute proteins during development.	John Kim	KSAS
Siu, Catherine	Resolving Host-Pathogen Interactions During Attaching/Effacing Pathogen Infections By in vivo Dual RNA-Sequencing	Fengyi Wan	BSPH
Susarla, Gayatri	Design of a Microcontroller-Based High-Speed In Vivo Neuroimaging System	Arvind Pathak	SOM
Tritsch, Michael	Material Culture Investigation in the Precinct of the Temple of Mut: Analysis of the Contexts of Painted Mud Brick and the Possible Connection to Domestic Worship during the Eighteenth Dynasty	Betsy Bryan	KSAS
Wang, Ronald	Engineering a Novel Model for Huntington's Disease to Develop a Drug Screening Assay Screening Platform	Christopher Ross	SOM
Webb, Lucy	Constraining the provenance of shale across the Ediacaran–Cambrian boundary in southwestern North America to test links between biotic and tectonic changes	Emmy Smith	KSAS
Yu, Jeanna	Combating HIV Through Non-Classical Peptide Presentation	Scheherazade Sadegh-Nasseri	SOM
Yu, Kevin	Regeneration of Leydig Cells after Injury in Mice	Erika Matunis	SOM
Zhang, Bill	Monocytes as Cellular Immunotherapy for Allergic Asthma	Nicola Heller	SOM
Zheng, Alice	A Novel Approach to Sequencing of Immune Receptor Repertoires	Janelle Montagne	SOM
Zhou, Zhenglong	Becoming an expert counter-adversary	Chaz Firestone	KSAS
Zhu, Evonne	JHU Computer Animation: Bridging the Gap Between Computer Science and Art	Misha Kazhdan	WSE

AY 2017-18 PURA Awardees

Awardee	Proposal Title	Mentor	Division
Ayele, Sami	Ça Tue Le Temps: Evaluating Youth Participation Among the Senegalese Murid	Sydney Van Morgan	KSAS
Boroumand, Kiana	Single motherhood, Nordic Culture, and the European Welfare System	Andrew Cherlin	KSAS
Cai, Robin	Pulmonary Pre-Metastatic Modifications Induced by Breast Cancer	Kristine Glunde	SOM
Chung, Jae Wook	Engineering Artificial Lymph Nodes: Stimulation of T cells in 3D Hydrogels	Jonathan Schneck	SOM
Dashora, Himanshu	Investigating Fibroblast and Stem Cell-Derived Cardiomyocyte Interactions on Decellularized Myocardial Tissue Slices	Leslie Tung	SOM
Duvall, Julia	Development of Tinnitus Homeostatic Plasticity Model Mediated by Drug Delivery to the Cochlea	Dwight Bergles	SOM
Fang, Lauren	Development and Pilot Evaluation of an Automated Method of Ambu-Bag Ventilation for use in Low-Resource Settings	Nicole Shilkofski	SOM
Fang, Lilly	HIF2a Regulation of Extracellular Matrix in Smooth Muscle Cells	Sharon Gerecht	WSE
Godage, Sashini	Evaluation of the Efficacy of a Text Message Intervention Targeting NYC Taxi Drivers	Lisa Ross de Camp	SOM
Hwang, June Ho	Investigating the Role of Protein Phosphatase 2C in Meiotic Chromosome Dynamics	Yumi Kim	KSAS
Jain, Yash	Biochemical analysis of UHRF1 binding to differentially methylated DNA	Srinivasan Yegnasubramanian	SOM
Kim, Hyunjun	Optogenetic control of glial cell line-derived neurotrophic factor (GDNF) receptor signaling	Gabsang Lee	SOM
Ko, Kelsey	Asian American identity in the Black and White Racial Moment: A Baltimore Case Study	Erin Chung	KSAS
Li, Kevin	MarrowMate: A Closed, Continuous Aspiration Device to Expedite and Optimize Bone Marrow Biopsies	Hai-Quan Mao	WSE
Lindsay, Anna	A Tale of Two Pathways: Profiling nitrifying and denitrifying bacteria in the Chesapeake Bay under normal and increased Nitrogen conditions with epicPCR	Sarah Preheim	WSE
Liu, Alex	Paris Antisense Oligonucleotide (ASO) as a potential therapeutic intervention for Parkinson's Disease	Ted Dawson	SOM
Logan, Emilia	Bmore Her PrEP Her Way: Feasibility of a Multi-Sector Collaboration to Increase Contraceptive Use and Initiate PrEP Uptake among IPV-exposed Women	Kamila Alexander	SON
Ma, Kayla	Exploring Beliefs and Cognitions Behind Co-rumination in Young Adults	Alison Papadakis	KSAS
Meng, Elvin	Toward a Shared Aesthetic: Musical Narrative in <i>Ulysses</i>	Douglas Mao	KSAS
Moss, Gabrielle	Investigating bounds for the bond and site percolation threshold values for a 2-uniform lattice	John Wierman	WSE
Mountain, Jack	Inducing Membrane Fusion in Living Cells Through Synthetic SNARE Tethering	Takanari Inoue	SOM
Ou, Ben	Self-Assembling Immunofibers for High Affinity Binding of Immunoglobulin G	Honggang Cui	WSE
Paidemarry, Supriya	Development of a Simple, Robust Assay to Isolate CRISPR Edited Strains and to Explore Transgenic Silencing Mediated by piRNAs	Geraldine Seydoux	SOM
Patel, Jhillika	Readmissions Reduction Initiative	Rob Besch	BSPH

Patel, Ruchit	Sustainability of an Early Mobilization Program for Critically Ill Children: A Qualitative Analysis of PICU Up!	Sapna Kudchadkar	SOM
Peters, Michael	Use of ribavirin as a potential anti-nasopharyngeal carcinoma therapeutic	Henry Brem	SOM
Purkayastha, Debanik	Neuroprint: Bioprinting by rapid and gentle deposition of multiple cell types in precise anatomic arrangements	David Nauen	SOM
Ramsay, Ben	Clustered Iterative Sub-Atlas Registration to Facilitate Surgical Planning and Quality Assurance in Orthopedic Surgery	Jeff Siewerdsen	SOM
Rhead, Kristi	What can Art do for Religious Tolerance? The Case of the Tree of Hope in Marseille	Sara Miglietti	KSAS
Rodriguez, Luis	Free-flow Isotachophoresis Device to Separate Nucleic Acids and Proteins in Bodily Fluids	Zachary Gagnon	WSE
Santangelo, Michelle	Emerging Toward a Biological Framework for Understanding the Neocortical Connectome	William Gray Roncal	APL
Schrum, Mariah	An Automated Process for Extracting Salivary Glands from Mosquitos for the Production of Malaria Vaccines	Russ Taylor	WSE
Shin, Jisu	Spheroid Motility, Invasion, and Proliferation of the Breast Cancer Metastatic Cells Exposed to Hypoxia	Daniele Gilkes	SOM
Sriparna, Manjari	Investigating LAG3 Inhibitors to Reduce Prion-Like a-syn Transmission	Xiaobo Mao	SOM
Taneja, Monica	Ethnicity, obesity and comorbidity in breast cancer survivors and women without breast cancer: a comparison using <i>NHANES</i>	Avonne Connor	BSPH
Tran, Henry	Effect of Oil-polymer Interaction on Adhesion Characteristics of Polymers	Joelle Frechette	WSE
Volpe, Oscar	The Effect of Extreme Poverty on the Pattern of Consumer Expenditures	Robert Moffitt	KSAS
Wang, Vicky	Developing <i>in vitro</i> Systems to Investigate Putative HIV-1 Restriction Factors and their Mechanisms	Andrea Cox	SOM
Young, Molly	George Eliot and Psychologized Vision	Andrew Miller	KSAS
Yuan, Cindy	Does Serotonin Encode the Value of Continuing a Rewarding Pursuit?	Marshall Shuler	SOM

AY 2016-17 PURA Awardees

Awardee	Proposal Title	Mentor	Division
Bickert, Aaron	Determining the role of the long non-coding RNA <i>Pantr1</i> on cortical development	Solange Brown	SOM
Bindman, Julia	User-Oriented Design of Prostate Cancer Decision-Support Tool (PA-3592104831)	Scott Zeger	BSPH
Black, Rebecca	Co-culture of Endothelial and Smooth Muscle Cells Using Erythrocytotic Patient-Derived Stem Cells to Study Pulmonary Hypertension	Sharon Gerecht	WSE
Blaize, Ebony	Neurodevelopmental Effects of Anesthetics	Cyrus Mintz	SOM
Block, Brandon	Older Pathways: An Exploration into Traditional Music in North Carolina	Hollis Robbins	KSAS
Boger, Ron	Sparse Subspace Clustering with Missing Entries	Rene Vidal	WSE
Burton, Ellie	Physical basis for membrane surface partitioning of the Bama POTRA tail	Karen Fleming	KSAS
Carmenate, Yaretson	Implementing a national study using ResearchKit and the Apple Watch to collect biosensor and response data during seizures: preliminary results	Gregory Krauss	SOM
Chen, Tiffany	Improving Stem Cell Transplantation: Characterization of a Novel Acetylsalicylated Methylcellulose-Based Hydrogel Scaffold for Regenerative Medical Applications	David Nauen	SOM
Cheng, Roy	Investigating JAK-STAT Signaling Pathway regulates Differential Histone Incorporation in Drosophila Germ Cells	Xin Chen	KSAS
Chi, Amy	Transient Tracer Fingerprints of Atlantic Meridional Overturning Circulation	Anand Gnanadesikan	KSAS
Choi, Chang	Uncovering Predictive Patterns: An IoT Solution to Sudden Cardiac Arrest	Nitish Thakor	SOM
Damewood, James	Vitamin C as an Example of Antioxidant Activity	Kit Bowen	KSAS
Dekker, Louna	Behind the Curtain - Women's Influence on Musical Culture Through the Salon	David Smooke & Marina Piccinini	Peabody
Deng, Callie	Multi-scale imaging of tumor angiogenesis using a custom-built miniaturized microscope	Arvind Pathak	SOM
Dorffer, Emily	(Dis)ability Short Story Anthology	Jean McGarry	KSAS
Elander, Annie	The Influence of Cortisol in Cognitive Health and Alzheimer's Disease	Arnold Bakker	SOM
Flournoy, Jennifer	Developing 3D Molding and 3D Printing Techniques to Study the Effect of Geometry on Protein Expression in Micro-Tissues	Yun Chen	WSE
Franceschi, William	Investigating the Pro-Arrhythmic Interaction Between Fibrosis Burden and Ablation Lesions in Patients with Persistent Atrial Fibrillation	Natalia Trayanova	WSE
Guan, Charlie	Graphene-Supported Metals and Metal Oxides for Water Purification	Chao Wang	WSE
Han, Kyu	Effects of the Physical Tumor Cell Microenvironment on Generating Aneuploidy in Invasive Human Breast Cancer Cell	Denis Wirtz	WSE
Hao, Grace	Development and Application of a 2D <i>In Vitro</i> EPR Model for Characterization of Cancer Nanomedicines	Peter Searson	WSE
Huang, Daniel	Deciphering superhelicase motions using SPRNT and spinach DNA	Taekjip Ha	SOM

Jou, Vivian	Determining NR2E1's endogenous ligand and its effects on human cells	Young-Sam Lee	KSAS
Ju, Dan	Noseleaf dynamics and sensorimotor feedback control in bat echolocation	Cynthia Moss	KSAS
Keller, Mitchell	Ammonium and Phosphate Sequestration via ZSM-5 Zeolites	Chao Wang	WSE
Kim, Grace	HIF1- α and collagen alignment as biomarkers of breast cancer	Daniele Gilkes	SOM
Kim, Ji Woong	Cell Stretching Platform for Cell-Cell Adhesion Strength Measurement and Self-Organization Behavior Tissues	Yun Chen	WSE
Kim, Sam	Analysis of Individual Zika Virus Protein Effects on Mouse Neural Stem Cells	Kimberly Christian	SOM
Le, Kathy	The Paternal Age Effect and competition in <i>Drosophila</i> germline stem cells	Erika Matunis	SOM
Lee, Erica	Art Therapy Focus Groups for Children and Adolescents with Migraines	Carl Stafstrom	SOM
Lee, Taein	Analysis of Electrical and Mechanical Properties of Organic Membranes Poly(styrene-co-methacrylic acid) and Poly(benzyl methacrylate) in Biosensor Applications	Howard Katz	WSE
Lu, Jin	Deciphering the DNA element code controlling stochastic gene expression	Robert Johnston	KSAS
Luna, Alexandra	Endogenous Nurr1 Ligand and Parkinson's Disease	Young-Sam Lee	KSAS
Luu, Skylar	Dissecting the dopaminergic circuitry controlling <i>Drosophila</i> sleep	Mark Wu	SOM
Mange, Ami	Investigating the Effects of ^{16}O Radiation on Neurobehavioral Performance in Rats	Catherine Davis-Takacs	SOM
Matta, Sasmira	System Dynamics Models to Help Ugandan Policymakers Overcome Barriers to Vaccine Coverage	David Bishai	BSPH
McBride, Kelly	MSB 16: A Window into the Past	Chris Celenza	KSAS
Mehta, Shivani	TB Knowledge and Attitude of Pregnant Populations from Resource Limited Settings: A Cross Sectional Study from Pune, India	Rupak Shivakoti	SOM
Nangia, Saachi	The Cross-Contamination of Polluted Air from Stove Use Among Households in rural Puno, Peru	William Checkley	SOM
Necochea, Kevin	Novel Biodegradable Nanoparticle for Reprogramming T cells in Cancer Immunotherapy	Jonathan Schneck	SOM
Pan, Tony	Formulation Optimization for Glutaminase Inhibitor Loaded Nanoparticles	Qingguo Xu	SOM
Park, Angela	Examining the role of air quality on intestinal microbiota and its associated impact on Crohn's disease and ulcerative colitis	Susan Hutfless	SOM
Phan, Duy	The development and progression of Romanticism in piano music	Susan Weiss	Peabody
Polisetty, Teja	Maximizing the Ease of Doing Business: A Collection of Best Practices	Steve Hanke	WSE
Rodgers, Naomi	LIBSing on a Prayer: A study of climate cyclicity in the Newark Basin	Kevin Lewis	KSAS
Routkevich, Denis	Investigating endosomal escape of polymeric nanoparticles for gene delivery	Jordan Green	SOM
Saia, Nicholas	Older Pathways: An Exploration into the Traditional Music of North Carolina	Hollis Robbins	Peabody
Serafini, Randal	Potential Role for Inhibition of Chloride Loading Mechanisms to Treat Chronic Pain Secondary to Sciatic Nerve Injury	Michael Caterina	SOM

Shah, Vishwesh	Simultaneous Inhibition of Cancer Cell Proliferation and Migration to Reduce Tumor Growth and Metastatic Burden	Denis Wirtz	WSE
Shin, John	Does testosterone maintain dendritic spine density in the brains of male mice?	David Linden	SOM
Sridharan, Arun	Tuning the Biradical Behavior of Quinoidal Methano[10]annulene through Steric Effects	JD Tovar	KSAS
Stahl, Asa	Probing the Mysteries of LINER Galaxies	Nadia Zakamska	KSAS
Stanco, Noah	Forced In Silico Unfolding of Helical Fast Folding Proteins	Rigoberto Hernandez	KSAS
Stepanian, Alec	An optogenetics based approach for elucidating how high frequency stimulation at the subthalamic nucleus suppresses excessive self-grooming in autism-like mouse models	Irving Reti	SOM
Tan, Matthew	Effect of Film Thickness on Elastohydrodynamic Interactions in Rebounding Solids	Joelle Frechette	WSE
Valenti, JJ	Leaning Towers, Leaning Bodies: Intuitive Physics as a Bodily Reflex	Chaz Firestone	KSAS
Wang, Songnan	Low Oxygen Tension to Enhance Cardiomyocyte Differentiation and maturation from Induced Pluripotent Stem Cells	Sharon Gerecht	WSE
Wang, Tony	Machine Learning Algorithms for Evaluating the Efficacy of Immunotherapies for Tissue Regeneration	Jennifer Elisseeff & Suchi Saria	SOM/ WSE
Wang, You	Maternal Plasma Folate Levels, <i>MTHFR</i> Genotypes, and Child Risk of Asthma - A Prospective U.S.Birth Cohort Study	Xiaobin Wang	BSPH
Xiao, Amy	Nanoparticle-mediated Drug Delivery for Improved Treatment of Dry Eye Syndrome	Laura Ensign	SOM
Yang, Jojo	AMPA Receptor Subunit Distribution and Function in Interneurons	Ingie Hong	SOM
Yen, Yu-Hsin	Investigating the Role of Neuropilin-2 and Semaphorin-3F in the Rod Photoreceptor Synapse	Alex Kolodkin	SOM
Yerrabelli, Rahul	Improving Hand Rehabilitation Effectiveness Using Infrared Sensor Tracking and Personalized Virtual Therapy	Vikram Chib	SOM
Zeng, Chenxiao	Searching Features in Primordial Power Spectrum with Planck and SDSS	Marc Kamionkowski	KSAS
Zhang, Rebecca	Restoring the Inhibitory Interneuron Network Deficits in an Animal Model of Schizophrenia	Michela Gallagher	KSAS
Zhao, Zezhou	miRNA 186-3p in HIV infection and extracellular vesicle shuttling	Kenneth Witwer	SOM

AY 2015-16 PURA Awardees

Awardee	Proposal Title	Mentor	Division
Angeli, Peter	Verifying the Octodon Degus as a Natural Model for Alzheimer's Disease	Michela Gallagher	KSAS
Armstrong, Anne	The effect of psychosocial stress on reward-seeking behavior in Long Evans rats	Patricia Janak	KSAS
Bathini, Abhijith	Determining the Mechanism Underlying Lhx8-Dependent Control of Circadian Phase Preference	Seth Blackshaw	SOM
Chai, Andreas Chenzhang	Characterization of the Migratory Patterns of CD8+ T Cells in Microchannels	Fidel Zavala	BSPH
Chin, Alfred	Role of GSH cycle and homocysteine in cardiovascular disease	Solomon Snyder	SOM
Chung, Sunho Jerome	Investigating the role of Narp in the antidepressant efficacy of electroconvulsive therapy	Irving Reti	SOM
Dang, Brendan	Engulfment of myelin debris by oligodendrocyte progenitors	Dwight Bergles	SOM
Elias, Cody	The effects of mindfulness meditation training and tDCS on sustained attentional and working memory processes	Susan Courtney-Farouqe	KSAS
Eoh, Joon Hyuck	Enhancing Elastin Production and Maturation in Vascular Smooth Muscle Tissue Derived from Human Induced Pluripotent Stem Cells using Pulsatile Flow Bioreactors	Sharon Gerecht	WSE
Hamberger, David	Investigating the Impacts of Rising Anti-Semitism on the Identities of British and Dutch Jewish Youth	Steven David	KSAS
Hsieh, Yu-Chen (Herriet)	Evaluating cortical astrocyte mGluR5 signaling following demyelination	Dwight Bergles	SOM
Huang, Han	Exploring Possible Improvements of Deep Brain Stimulation by Computational Model Simulation	Sridevi Sarma	WSE
Jasty, Venkatasai	Engineering essential amino acid expression system into HEK cells	Michael Betenbaugh	WSE
Johnson, Darin	Adult Hippocampal Neurogenesis and Medial Temporal Lobe Epilepsy	Kimberly Christian	SOM
Johnson, Karl	Platelet and Regulatory T Cell Interactions During HIV/SIV Infection	Kelly Pate	SOM
Ju, Julia	The Influence of Hypoxia on the Functional Coupling of Cancer Cell Proliferation and Migration	Denis Wirtz	WSE
Juarez, Felicia	Investigating the role of Lhx2 in the development of the ciliary body	Seth Blackshaw	SOM
Keiler, James	Alpha-Synuclein Transmission Pathology Mediated by LRRK2	Ted Dawson	SOM
Kelly, Michael	Investigating the Active Galactic Nucleus Unification Model with the MaNGA Survey	Nadia Zakamska	KSAS
Kim, Daniel	The Molecular and Cellular Determinants of Epithelial Duct Bifurcation	Andrew Ewald	SOM
Kim, Young Eun	Gene Vector Sensitization of Chemotherapeutic Resistant Glioblastoma	Jung Soo Suk	SOM
Koo, Michael	Unfolding the paths of microRNA suppression in Acute Lymphoblastic Leukemia	Linda Resar	SOM
Kottapalli, Sanjay	Thymulin Gene Therapy for Allergic Asthma Using Biodegradable Nanoparticles	Jung Soo Suk	SOM
Lee, Jae Young	Free Radical Copolymerizations of BN-Styrene and Styrene	Rebekka Klausen	KSAS
Lee, Jennifer	Evolving Conceptions of Minjok: National Identity in a Globalizing South Korea	Beverly Silver	KSAS

Lee, Yun Ji (Diana)	The reactivation of latent HIV in infected astrocytes by a small RNA inhibitor	Kenneth Witwer	KSAS
Li, Joey	IQGAP1 scaffold protein regulation of cancer stem cells in pancreatic ductal adenocarcinoma	William Matsui	SOM
Liano, Wilhelm	Dephosphorylation via Rare Earth Oxide Nanocatalysts	Chao Wang	WSE
Mandalaju, Spandana	Temporal Characteristics of Surprised-Induced Enhancement of Learning Effect in Preschool-Aged Children	Lisa Feigenson	KSAS
Manto, Kristen	Hydrogel Capsule Technology as New Tool for Studying Cell Migration	Konstantinos Konstantopoulos	WSE
McInerney, Denis	Sensor Curvature Study for the Higgs Boson	Andrei Gritsan	KSAS
Mohsen Nia, Arman	Analysis and control of plasmid distribution for enhanced gene delivery	Jordan Green	SOM
Ndiaye, Ndeye	Autism Social Behavior	Gul Dolen	KSAS
Park, SangWoo	Analyzing the Benefits of Using the Stratified Scenario Sampling Method in a Stochastic Two-stage Optimization Model for transmission Planning that Integrates Wind, Solar, and Geothermal Energy	Benjamin Hobbs	WSE
Park, SungJae	From Tigers to Dragons: An Historical Sociology of East Asia	Daniel Pasciuti	KSAS
Phan, BaDoi Nguyen	Transcriptome Analysis of Pitt Hopkins Syndrome in a Murine Model	Thomas Hyde	SOM
Picon, Edwina	Non-Suicidal Self-Injurious Behaviors at Hopkins	Alison Papadakis	KSAS
Ryu, Brian	Effect of Drainage Channels on the Hydrodynamic Drag on a Rolling Sphere	Joelle Frechette	WSE
Schlesinger, Daphne	Polymer microneedles for more effective transdermal drug delivery	Jordan Green	SOM
Schwarz, Erica	Using Graph Theory and the Minimum Cut Algorithm to Predict Ablation Targets	Natalia Trayanova	WSE
Shade, Daniel	Hypoxia-induced DDR2 expression promotes breast cancer metastasis	Daniele Gilkes	SOM
Shamul, James	Doxorubicin-Loaded Poly(β -amino ester)–Poly(ethylene glycol) Micelles for Cancer Therapy	Jordan Green	SOM
Shankar, Thaara	Decoding Klimt through Neuroaesthetics	Christopher lakey	KSAS
Shao, Yi	Treatment with levetiracetam targeting hippocampal dysfunction improves cognition associated with schizophrenia	Michela Gallagher	KSAS
Shin, Yu Jung	Engineered Bovine Tissue for Corneal Reconstruction	Jennifer Elisseeff	SOM
Snedeker, Jonathan	Nuclear Organization and Control of DNA replication in Germline Stem Cells	Xin Chen	KSAS
Sogunro, Akinola	Increasing mTOR Activity in T cells to Enhance Cancer Treatment	Jonathan Powell	SOM
Stambler, Daniel	Improving Interest in History in High Schools across the USA	Annalisa Czczulin	KSAS
Strasburger, Hayley	Oligodendrocyte Progenitor Cell Transdifferentiation in Multiple Sclerosis	Peter Calabresi	SOM
Tang, Man Hon (Ambrose)	The Pulse of Hong Kong	Susan Weiss	Peabody
Thakker, Sameer	Examining Metabolite Differences in LTBI vs. Active Infection	Petros Karakousis	SOM
Thomas, Justin	Differentiation of Hematovascular Lineages from Human Pluripotent Stem Cells	Elias Zambidis	SOM
Tran, Sang	Investigating the Roles of DNA Elements in Stochastic Gene Expression	Robert Johnson	KSAS

Vicente, Fernando	High Throughput and Multiplex Analysis of Rare Antigen-Specific T Cells	Jonathan Schneck	SOM
Wadhwa, Harsh	Effect of ATXN-2 polyglutamine expansion on Nucleocytoplasmic Transport Defects in <i>C9ORF72</i> -mediated ALS	Thomas Lloyd	KSAS
Wall, Rose Clara	Mitigating the Dangers of Submerged Hydraulic Jumps from Low Head Dams	Ciaran Harman	WSE
Wang, Annette	Role of ipRGC-neurotransmitters, glutamate and PACAP, in light-dependent mood and learning regulation	Samer Hatter	KSAS
Wang, Jiaqi (Judy)	Role of NDRG1 in Vesicular Recycling and Tumor Cellular Autophagy	Suchant Kachhap	SOM
Ye, I Chae (Rachel)	Tuning the effects of DDIT4 to promote cancer cell death under hypoxia	Daniele Gilkes	SOM
Yemane, Danait	Sawa Military Training and Women's Health in Eritrea	Peter Winch	BSPH
Yu, Brandon	The Role of Glycogen in Neuronal Cell Death by Oxygen Glucose Deprivation	Shaida Andrabi	SOM
Zhang, Yuxi	Association of preoperative food preferences with postoperative weight loss	Kimberley Steele	SOM
Zito, Alessandra	The Implantation of MoS3 into Carbon Aerogels: An Investigation of Three Procedures	Sara Thoi	KSAS

AY 2014-15 PURA Awardees

Awardee	Proposal Title	Mentor	Division
Bruner, Ellen	Tracing Elite Industry in the Ancient Mediterranean: Cyprus, Ceramics, and Copper	Emily Anderson	KSAS
Chen, Ivan	Role of HIF-1 dependent Glutathione Biosynthesis in Triple Negative Breast Cancer	Dr. Gregg Semenza	SOM
Chickering, Michael	Bisphenol A Toxicity Screening in Cerebral Organoids	Dr. Hongjun Song	SOM
Cho, Minkyung (Annie)	Exploiting natural variation to elucidate the mechanisms that control stochastic specification of color-detecting photoreceptors	Dr. Robert Johnston	KSAS
Coronado, Alicia	Motivation to Analyze Shear Stress in Heterogeneous Cell Populations During Collective Migration	Dr. Denis Wirtz	WSE
Daggubati, Vikas	Identifying the execution point of Polo-like Kinase 4 in centrosome duplication	Dr. Andrew Holland	SOM
Fan, Yunfan	Methylation Sequencing on the MinION	Dr. Winston Timp	WSE
Fraenkel, Jeremy	The Economics of Currency Boards in Sarawak and British North Borneo - An Untold Story	Dr. Steve Hanke	WSE
Ge, Preston	Evaluating c-Abl phosphorylation of Parkin in animal models of Parkinson's Disease	Dr. Dwight Bergles	SOM
Gilgore, Jarrett	Heritage:An Exploration of the Music and Life of Jimmy Lyons	Dr. Gary Thomas	Peabody
Gold, Alaina	Seasonal neuromorphology: Investigating seasonal changes in the human brain	Dr. Arnold Bakker	KSAS
Grosu, Ioana	The Morphology of Number in Romanian Language	Dr. Colin Wilson	KSAS
Jorgenson , Tyler	Development of a Functional Hierarchical DNA Structure	Dr. Rebecca Schulman	WSE
Jou, Christopher	Developing and patterning of the mammalian hypothalamus from neural stem cells	Dr. Hongjun Song	SOM
Kim, Barbara	Biomedical engineering innovation for simplification of neonatal resuscitation in the developing world	Dr. Utpal Bhalala	SOM
Kim, Evan	Youth Culture in Korea and its Relation to the West through an Ethnographic Documentation	Dr. Bernadette Wegenstein	KSAS
Knowlton, Tyler	The Parser's Dilemma: Memory vs. Grammatical Constraints in Sentence Processing	Dr. Akira Omaki	KSAS
Lee, Sang Hyuk	Effect of cell senescence on the nuclear morphology and transcriptional activity of cancer cells	Dr. Denis Wirtz	WSE
Li, Chenhao	MAPK Mediates Phthalate-Induced Reduction of Steroidogenesis in Leydig Cells	Dr. Barry Zirkin	BSPH
McCartin Jr, Michael	Characterization of a novel cardioprotective mechanism: O-GlcNAc regulated autophagy	Dr. Natasha Zachara	SOM
Michelson, Nicole	Subjective Social Status and Psychosocial Distress in Brain Tumor Patients	Dr. Alfredo Quinones-Hinojosa	SOM
Namburar, Sathvik	Economic and Environmental Costs Associated with Medical Waste	Dr. Alan Robin	SOM
Nkodo, Amelie	Translating child rights into institutional forms at the Centre de Guidance Familiale et Infantile (CEGID) in Dakar, Senegal	Dr. Veena Das	KSAS
Novack, Joshua	A Novel Crosstalk Mechanism between LINC Complexes and Mechanoresponsive Transcription Factors in Muscle Differentiation	Dr. Denis Wirtz	WSE
Obied, Georges	Giant Scattering Cones in Obscured Quasars: A Hubble Telescope Study	Dr. Nadia Zakamska	KSAS

Ong, Eric	Electrochemical control over gold nanoparticle interfacial assembly	Dr. Joelle Frechette	WSE
Rao, Pranay	The mechanism of multicellular aggregate growth and invasion inside three-dimensional matrices	Dr. Denis Wirtz	WSE
Ren, Qiuyin	Lipid coated nanoparticles for targeted drug delivery to cancer cells using copper-free click chemistry	Dr. Jordan Green	SOM
Rosser, Benjamin	LHC Run2 Data Analysis	Dr. Petar Maksimovic	KSAS
Roy, Sounak	Investigating the Role of CXC Chemokine Receptors in Prostate Cancer Bone Metastasis	Dr. Ken Pienta	SOM
Saw, Yong Kai	Energy-Efficient Desalination Enabled by Regenerative Magnetic Nanoprobes	Dr. Chao Wang	WSE
Server, Christine	Unraveling the Circuitry of Serotonin-Releasing Neurons in the Raphe Nuclei	Dr. Jeremiah Cohen	SOM
Shade, Julie	Mechanistic Determination of Optimal Parameters for Pulmonary MPP Delivery	Dr. Justin Hanes	SOM
Shinn, Daniel	Enhancing peripheral motor axonal regeneration via nanoparticle-mediated gene delivery to the nerve autograft	Dr. Hai Quan Mao	WSE
Siddiqi, Haziq	Interaction between stochastic and deterministic genetic factors in visual nervous system development	Dr. Robert Johnston	KSAS
Sonko, Momodou	Identifying Epigenetic Factors in the GnRH Promoter Involved in the Regulation of Pubertal Onset	Dr. Sally Radovick	SOM
Su, Emily	Elucidating the Mechanosensitive Role of Primary Cilia in Calcium Signaling	Dr. Takanari Inoue	SOM
Takash, Daniel	Optimal Taxation and Enforcement Policies in Newly Legalized Drug Markets	Dr. Sauleh Siddiqui	WSE
Theodoru, Andrea	Coulomb Interactions in the Hydrophobic Interior of a Protein: A Quantitative Study of the Forces that Govern Enzyme Catalysis	Dr. Bertrand Garcia-Moreno	KSAS
Tyle, Pranay	Influence of Oxygen Deprivation On Cancer Metastasis in Three Dimensional Microenvironments	Dr. Denis Wirtz	WSE
Villasante, Camila	The Dynamics of Escherichia coli Adenylate Kinase	Dr. Vincent Hilser	KSAS
Wisner-Carlson, William	Refining Serial Murder Classification in Modern America	Dr. Kathy Edin	KSAS
Xia, Shiyu	Injectable HAMC-PLGA Composite for Ocular Drug Delivery	Dr. Justin Hanes	SOM
Young, Brenda	Deconstructing the cellular basis of thalamic nuclei specification by in vivo clonal analysis	Dr. Guo Li Ming	SOM
Zhou, Cyrus	Using natural variation to understand stochastic gene expression	Dr. Robert Johnston	KSAS

AY 2013-14 PURA Awardees

Awardee	Proposal Title	Mentor	Division
Alvarez, Ryan	Controlling the Global Phenotype of a Dynamic, Heterogeneous Cell Line via Biophysical & Biochemical Manipulation	Dr. Denis Wirtz	WSE
Andrews, Clayton	Transcriptional Regulation of Stem Cells for Peripheral Nerve Regeneration	Dr. Hai-Quan Mao	WSE
Baker, Jordan	Carotenoid and Lipid Production in Photoautotrophic Microalgae	Dr. Michael Betenbaugh	WSE
Bovonratwet, Patawut	Contributions of Metabolic Flux & Hexosamine Scavenging to the Mobility of Metastatic Pancreatic Cancer Cells	Dr. Kevin Yarema	WSE
Brodsky, Brett	A human stem cell model for studying genetic mutations in an inherited neurodevelopmental disease	Dr. Linzhao Cheng	KSAS
Burke, Kirsten	Interaction of Visual and Auditory Modalities	Dr. Xiaoqin Wang	KSAS
Chen, Weitong (Jeron)	Viscoelastic Characterization of Cancer Cells during Mitosis	Dr. Denis Wirtz	WSE
Contaldo, Daniel	Documenting the Libera Program in Italy	Dr. Bernadette Wegenstein	KSAS
Cornwell, MacIntosh	Quantitative Analysis of Epigenetic Organization within Nuclei using FISH	Dr. Winston Timp	WSE
Costello, Shawn	A Computational and Experimental Model for Membrane Protein Flux	Dr. Karen Fleming	KSAS
Dawod, Giana	The Effect of a Range of Bilingualism on Cognitive Performance in Non-Language Cognitive Domains	Dr. Arnold Bakker	KSAS
De la Vega, Alexander	Tales of Dragons: A Reconstruction & Study of the Ming Dynasty Two-Stage Rocket	Dr. Yulia Frumer	KSAS
Dowling, Abby	Caribbean Men's Study	Dr. Jacquelyn Campbell	SON
Facklam, Amanda	The Effect of Hypoxia on the Longevity of Stem Cell-Derived Vascular Networks	Dr. Sharon Gerecht	WSE
Gallo, Ryan	Neuronal Lineage-Tracking in a Developmental & Cellular Model of Schizophrenia & Autism	Dr. Brady Maher	KSAS
Gao, Michael	Improving Hurricane Power Outage Predictions with Aerial Imagery	Dr. Seth Guikema	WSE
Gil, Stacy	Developing a web-based educational applet on the cerebral vasculature	Dr. Arvind Pathak	WSE
Gupta, Saksham	An Analysis of E3 Ubiquitin Ligases in C9ORF72-related ALS	Dr. Thomas Lloyd	KSAS
Han, Seal-Bin	Development of miniaturized cochlear implant device for use in mice	Dr. Amanda Lauer	WSE
Hancock, Grace	The Role of miRNA's in HIV Resistance of Highly Exposed Individuals	Dr. Kenneth Witwer	SOM
Hewes, Sarah	3D printing of functional hydrogel-encapsulated microvessels	Dr. Peter Searson	WSE
Hoffman, Gwendolyn	Chip-Based S-100B Assay for Diagnosis of Traumatic Brain Injury	Dr. Peter Searson	WSE
Hu, Yijia	Haploperoxide C and its regulation of SAICAR and cancer cell growth	Dr. Young-Sam Lee	KSAS
Kalavar, Meghana	Investigating Glioma Induced Neurovascular Dysregulation Using Multiphoton Microscopy	Dr. Arvind Pathak	KSAS
Kalugin, Peter	Elucidating the role of intraflagellar transport in primary cilia	Dr. Takanari Inoue	KSAS

Kato, Nathaniel	Ethylene Detection and Controlled Ripening of Fruits	Dr. Marc Donohue	WSE
Kim, David (Nam-Woo)	Molecular mechanisms of Huntington's Disease	Dr. Solomon Snyder	KSAS
Kim, Dohee	Delaying ALS Progression & Extending Survival by Modulating CSN Excitability	Dr. Solange Brown	WSE
Land, Joshua	Lotus Eyes Film Production	Meredith Ward	KSAS
Landau, Andrew	Notes, sequences and melodies: The Relationship Between Tempo and Auditory Object Encoding	Dr. Charles Limb	Peabody
Laney, Victoria	Analysis of MDA-MB-231 Breast Cancer Cell Decision Making in Y-Shaped Micro channels	Dr. Konstantinos Konstantopoulos	WSE
Levy, Isaiah	Targeting Tumor Suppressor MicroRNAs in Pediatric Leukemia	Dr. Linda Resar	WSE
Ma, Polly	Lens-Free Microscopy for Fluorescence Imaging of Digital DNA Assays & Development of Melting Curve Analysis	Dr. Jeff Wang	WSE
Mok, Carrie	Developing RNA Aptamers that Target HMGA1	Dr. Linda Resar	WSE
Pachidis, Pavlos	Breast cancer cell migration in confinement: The contact-guided dilemma between channels of different widths	Dr. Konstantinos Konstantopoulos	WSE
Samson, Edward (Ned)	How do humans synchronize movements with an external rhythm?	Dr. Noah Cowan	WSE
Sanchez, Henry	Modeling Blood-Brain Barrier Transport In-Vitro Using Hydrogel Microfibers	Dr. Peter Searson	WSE
Sun, Amy	Automated Reconstruction Algorithm to Investigate Breast Cancer Progression	Dr. Aleksander Popel	WSE
Suzuki, Sara (Kimiko)	Prevention of Cerebrovascular Disease by Use of a Glycosyltransferase Inhibitor	Dr. Subroto Chatterjee	KSAS
Tan, Siqi	Characterization of LOXL2 Protein for Applications in Vascular Stiffness	Dr. Lakshmi Santhanam	WSE
Thakor, Jai	MiniBrain-Modeling Double Cortex Syndrome with iPSCs and Cerebral Organoids	Dr. Kimberly Christian	KSAS
Xue, Carolyn	Effect of Anti-ulcer Agent, Geranylgeranylacetone, on Cardiac Toxicity of Doxorubicin when treating and imaging Acute Myeloid Leukemia Cells	Dr. Kathleen Gabrielson	KSAS
Zhang, Zhuo	High-Speed Pseudorandom Grayscale Pattern Generation for Ultrafast Compress	Dr. Mark Foster	WSE

AY 2012-13 PURA Awardees

Awardee	Proposal Title	Mentor
Abramson, Alex	Micro-Fabrication of Metallic Spikes on Microgrippers for Use in Targeted Drug Delivery	Dr. David Gracias
Archang, Maani	Hepatic Stellate Cell-Targeted miRNA Nanoparticles to Treat Cirrhosis Using Retrograde Intrabiliary Infusion	Dr. Hai-Quan Mao
Bautze, Alessandra	WHAT SOPHIE SAW Film Production	Ms. Meredith Ward
Bhasin, Brandon (Jay)	Computational Modeling of Micro vascular Networks in Murine Skeletal Muscle	Dr. Feilim Mac Gabhann
Caffrey, Deidre	Using the Six-minute Walk Test as a Screening Tool for Chronic Obstructive Pulmonary Disease (COPD) in a Community Setting (Lima, Peru)	Dr. William Checkley
Carson, Caryn	Analyzing the Role of SUMO in Protein Misfolding Stress	Dr. Michael Matunis
Chen, Henry	The Impact of the United States Farm Bill on International Trade	Dr. Renee Marlin-Bennett
Cheng, Ruu Harn	Representing the Size of the Space in the Brain	Dr. Soojin Park
Cochran, Willa	Migrant Women as Reproductive Health Educators via Social Remittances	Dr. Nicole Warren
Crits-Christoph, Alexander	Adaptations of Endolithic Microbial Communities to UV Exposure	Dr. Jocelyne DiRuggiero
Espinoza, Diego	miRNA-Target Networks in SIV-infected and INF-Treated Macaque Astrocytes	Dr. Kenneth W. Witwer
Feeny, Albert	Measuring Intrinsic Repolarization Liability	Dr. Larisa Tereshchenko
Flaherty, Bethany	The Effects of Spatiotemporal Continuity on Change Blindness	Dr. Justin Halberda
Fuhrmeister, Erica	A Quantitative Approach to Fecal Contamination and Sanitation	Dr. Edward Bouwer
Furlong, Sarah	Do Children Have Massive Memory for Visual Images?	Dr. Barbara Landau
Gilmour, Anna Lynne	A Novel Paradigm for Studying the Neural and Hormonal Mechanisms of Female Appetitive Behavior	Dr. Gregory Ball
Glover, David	Recovery of Somatosensory Cortex Function through Optogenetics Stimulation of Cortical Neuronal Activity	Dr. Galit Pelled
Gonzalez, Matthew	Controlled Synthesis and Characterization of Alloy Nanoparticles	Dr. Chao Wang
Griswold, Andrew	Iron (II) Catalyzed Difluorination of Acid Chlorides	Dr. Thomas Lectka
Hoffman, Jordan	Temporally Modeling Changing Stochastic Processes Using Monte Carlo Markov Models	Dr. Colin Norman
Hosseini, Mahdieh	Understanding Emerging Latino-Muslim Communities in the United States	Dr. Juan M. Obarrio
Huerta, Julia	The Effect of Cumulative Abuse on Mental Health Outcomes Among African American and African Caribbean Women	Dr. Jacquelyn Campbell
Jareonvongrayab, Pattawan	Novel Metric "Interloop Distance" and Early Repolarization ECG Phenomenon	Dr. Larisa Tereshchenko
Kays, Joshua	Characterizing Tissue Micro-architecture for Applications in Drug Delivery and Tissue Engineering	Dr. Justin Hanes
Kim, Hyun Ji (Sarah)	Characterization of Brain Tumor Model Systems	Dr. Denis Wirtz

Kim, Jin Wan (Julian)	The Effects of Nitrosylation on Thorase Neuron Protection	Dr. Valina Dawson
Kohrs, Bryan	Investigating the Mechanism of Multidrug Transcription Initiation of BmrR	Dr. Herschel Wade
Kuznetsov, Ivan	A Quantitative Model of Blood-Brain Barrier Efflux Transport	Dr. Peter Searson
Lee, Minhyae (April)	HIF-Dependent Expressions of ITG β 5 and ITG β 1 Mediate Breast Cancer Cell Adhesion to Promote Breast Cancer Metastasis	Dr. Gregg Semenza
Lee, Sun Joo	Axon-Cancer Interactions in a Novel Microfluidic Device	Dr. Pankaj Pasricha/ Dr. In Hong Yang
Lu, Albert	The Regulation of DICER and its Impact on HIV-1	Dr. Kenneth W. Witwer
McPherson, Malinda	Neural Substrates of Emotion Processing During Musical Improvisation	Dr. Charles Limb
Ong, Sharon	Investigate Whether Different Wavelength Sensitive Cones have Distinct Contributions to Non-Image Forming Functions	Dr. Samer Hattar
Partow, Carlene	The Relationship between Sleep Hours, Emotional Memory and Neurophysiological Response	Dr. Michael A. Yassa
Patel, Parth	Hypoxia Induced Differentiation of Vascular Cells from Human Induced Pluripotent Stem Cells	Dr. Sharon Gerecht
Patel, Rajan	A Novel Approach for Alzheimer's Disease Treatment using Immunotherapy Targeting Tau Pathologies	Dr. Tong Li
Sadda, Praneeth	A Surgical Navigation System with a Head Mounted Tracking System and Augmented Reality Display	Dr. Peter Kazanzides
Schettino, Amy	Can Enrichment and Exercise Mitigate the Effects of Noise-Accelerated Hearing Loss?	Dr. Amanda Lauer
Schulteis, Eva	Sub-Plate Neurons in Mouse Models of Schizophrenia	Dr. Solange Brown
Sim, Kyu Man	Developing In Vivo Cre-Dependent Gene Knock-Down System in Adeno-Associated Virus	Dr. Hongjun Song
So, Ernest	Modeling Cell Growth in Fission Yeast using Level Set Methods	Dr. Pablo A. Iglesias
Thirawatananond, Puchong	Investigating the Genetic and Molecular Link of Kidney Hypertrophy to Atherosclerosis	Dr. Subroto Chatterjee
Tuntivate, Chanon	Studying the Effect of Temperature on Blunt End Stacking of DNA Origami Tiles	Dr. Rebecca Schulman
Wang, Zixiao (Andrew)	Role of CtBP2 in Embryonic Retinal Development	Dr. Donald Zack
Zorowitz, Samuel	Counterfactual Reasoning and Distributive Justice	Dr. Colin Wilson

AY 2011-12 PURA Awardees

Awardee	Proposal Title	Mentor
Alexandre, Kessie	Preference and Local Perceptions of Cholera Prevention and Treatment Education in Rural Haiti	Dr. Henry Perry
Aly, Ahmed	Sustained Release of Methotrexate from PLGA based Microspheres loaded with Micelle-like Methotrexate Conjugate PEO-b-PHAA-MTX	Dr. Jennifer Elisseeff
Belanger, John	SEE: Inside Out Project New Haven	Dr. Matthew Porterfield
Bohrson, Craig	Parameterizing the Rosetta Score Function for Prediction of Protein-Surface Interactions	Dr. Jeffrey J. Gray
Borota, Daniel	Caffeine and Long-term Memory Storage: An Investigation of Post-Training Caffeine Administration and its Neuromodulatory Effects on Hippocampal Pattern Separation	Dr. Michael A. Yassa
Brockman, Manuel	Spatial Navigation Capacities in Requisite Dual Solution Trials in Humans	Dr. Amy Shelton
Brout, Dillon	Investigating Type Ia Supernovae Classification & Redshift Determination Methods, An Effort to Constrain the Equation of State of Dark Energy	Dr. Adam Riess
Brown, Sarah	Automated Image Analysis Programming	Dr. Douglas Robinson
Chang, Allen	Examination of the Role of Culture and Ethnic Background in Facial Recognition	Dr. Michael Yassa
Chow, Lawrence	Ethanol Exposure and Histone Modification in Intronic Regulatory Regions of FKBP5	Dr. Richard Lee
Chuang, James	Constructing a Neochromosome for the Modular Assembly of Exogenous Pathways in <i>S. Cerevisiae</i>	Dr. Jef Boeke
Cotterell, Ryan	Phonological Opacity and Diachronic Variation	Dr. Colin Wilson
Daya, Jena	Understanding Premature Aging in Hutchinson Gilford Progeria Syndrome	Dr. Denis Wirtz
De Silva, Sarah (Niroshi)	A View into Medical Students' Minds: Understanding Affective Responses to Substance Abuse and Lying in Patients and Effects on Clinical Decision-Making	Dr. Luis F. Buenaver
Gabriel, Naika	An Analysis of Key Features of Violence Against Women in Haiti Before and After the 2010 Earthquake and Perceptions of Violence Against Women in Haiti	Dr. Jacquelyn Campbell
Gao, Lucy	Role of Cofilin in Regulated Brush Border Trafficking of NHE3	Dr. Mark Donowitz
Granat, Jeffrey	A Systematic Approach to Understanding Nucleosome Stability	Dr. Gregory Bowman
Guenther, Catherine	Privatizing The Prison System: A Continuation of Racial Discrimination?	Dr. Nathan Connolly
Guo, Jonathan	A Swingin' Affair: A Study of the Music of Dexter Gordon	Dr. Gary Thomas
Harary, Maya	The Role of Vitamin D in Multiple Sclerosis	Dr. Peter Calabresi
Henry, Roger	The Sweet Side of Cell Survival: A Model for O-GlcNAc-Mediated Apoptosis Inhibition	Dr. Natasha Zachara
Hill, Matthew	Molecular Hydrogen Emissions in Luminous Infrared Galaxies	Dr. Nadia Zakamska
Ho, Karen	Use of Chunking to Increase Spatial Working Memory in Preschool-Aged Children	Dr. Lisa Feigenson
Huang, Kevin	The Effect of Morphological Change on Transfection Efficiency of Polymer/DNA Nanoparticles	Dr. Hai-Quan Mao
Hung, Alice	Tissue-specific Activation of Estrogen Signaling in Development	Dr. Marnie Halpern
Ji, Samuel	Hippocampal Memory Function and Traumatic Brain Injury	Dr. Michael Yassa

Kang, Po Wei (Billy)	Optimizing Activation of CIC-2 to Bypass the Cystic Fibrosis Ion Transport Defect	Dr. Pamela Zeitlin
Kassner, Joshua	The Effects of Quorum Sensing Inhibitors on the Phagocytosis of Neutrophils	Dr. Jocelyne DiRuggiero
Kim, Hyunju	Exploring the Lives of Korean American Storeowners in Baltimore	Dr. Joel Gittelsohn
Kim, Jong Heun	Development of a Novel Microfluidic Platform for Multiple Sclerosis Study	Dr. Nitish Thakor
Le, Thuy-My	Non-toxic Dielectrophoresis Purification of Induced Dopaminergic Neurons	Dr. Michael J. Betenbaugh
Ledwell, Kathryn	Musical Development for Children with Cochlear Implants	Dr. Charles Limb
Lee, Stephen	Thermoelectric Devices from Organic and Inorganic Composite Materials: Developing Materials with Large Seebeck Coefficients and Electrical Conductivities	Dr. Howard Katz
Lewis, Daniel	Sickle Cell Vaso-Occlusion in a Microfluidic Device Containing Three-Dimensional Constructs	Dr. Sharon Gerecht
Liao, Diana	Characterizing the Effects of Hand Movements on Working Memory	Dr. Cherie Marvel
Maldarelli, Mary Elizabeth	A Guide to Early Strings and Thai Folk Instruments at the Library of Congress	Dr. Susan F. Weiss
Mullen, Alexander	Engineering Cell-Based Nerve Regeneration: The Effect of Nanofiber Alignment on Nanoparticle-Mediated Transfection in Schwann Cells	Dr. Hai-Quan Mao
Ni, Inzer	Cigarette Smoke Induced Bacterial Infection in Macrophages: Mechanisms & Therapeutic Strategy	Dr. Neeraj Vij
Nichols, Justin	The reliability and factor structure of the Severity of Violence Against Women Scale with women of African descent	Dr. Jacquelyn Campbell
Pan, Shu	Formulating and optimizing carbohydrate-decorated mucus-penetrating nanoparticles for lung epithelial cells-targeted gene delivery	Dr. Justin Hanes
Park, Jeong Hoon	Polyp Angiogenesis: Developing Standard Curve For Detection Of Colorectal Cancer	Dr. Subroto Chatterjee
Patel, Varun	Hindu Samskṛas with Translation and Transliteration	Dr. Uma Saini
Raman, Sarina	The Role of Herpes Simplex Virus in Graft Versus Host Disease of the Skin in Pediatric Bone Marrow Transplant Patients	Dr. David Loeb
Sanghi, Akshay	Can Acetic Acid be Used to Improve Therapy for Yeast Infections?	Dr. Richard Cone
Schneider, Rose	Attentional Allocation in Multiple Object Tracking: The Case of Hoppy	Dr. Jonathan Flombaum
Seligman, Niccolo	Exploring the Vielle: Lost Repertoire for a Mysterious Instrument	Mr. Mark Cudek
Shah, Pooja	Food Insecurity and HIV: Examining the Clinical and Behavioral Implications of Inadequate Food Access in Baltimore	Dr. Shruti Mehta
Shahu, Andi	Dissecting the Role of c-Abl in Parkinson's Disease	Dr. Ted Dawson
Shi, Jay	Neurotrophin-Mediated Regulation of Lin28a: Mechanism of Translational Regulation Underlying Synaptic Plasticity	Dr. Mollie Meffert
Sur, Sanjoli	J-point Elevation Prior to Ventricular Arrhythmia Risk Evaluation	Dr. Larisa Tereshchenko
Szanton, Jules	The Kill List: A Constitutional Analysis of the Targeted Killing of American Citizens during the Global War on Terror	Dr. Joel Grossman
Temple, Joshua	Immunosuppressive Properties of Enhanced Bone Marrow Aspirate	Dr. Warren Grayson

Trenton, Nicholas	The Role of Chemotaxis in Three-Dimensional Cancer Cell Migration	Dr. Denis Wirtz
Tsai, Carolyn	Investigating the Role of Runx1 in Establishing Hairy Skin Innervation Patterns of Nonpeptidergic Nociceptors	Dr. David Ginty
Zhang, Julia	Uncovering the Molecular Basis of Sleep: Interactions of WIDE AWAKE and RDL in <i>Drosophila melanogaster</i>	Dr. Mark Wu

AY 2010-11 PURA Awardees

Awardee	Proposal Title	Mentor
Beebe, Madeleine	Abuse and Disrespect by Health Care Providers as a Barrier to Facility-based Births in Mali	Dr. Nicole Warren
Benmaman, Jorge	The Temporal and Spatial Role of Secretory Molecules that Govern Cancer Cell Motility	Denis Wirtz
Bray, Natalie	Effects of Increasing CO ₂ on Leaf Litter Palatability and Chemistry for Soil Animals	Katalin Szlavecz
Bristol, Sarah	Mothers' Documentation of the Persistent Impact of War on their Children and Family in the Democratic Republic of Congo: A Photovoice Project	Nancy Glass
Chan, Wui Yarn (Daphne)	Formulation and Optimization of Mucus-penetrating Nanoparticles for Delivery of Lung Cancer Drugs	Dr. Justin Hanes
Chen, Melinda	Dynamic Interplay between Cell Morphology and Biochemical Signaling Pathways	Takanari Inoue
Choi, Woo Jin	Preparation and Characterization of Mucus-penetrating Drug Nanocrystals	Justin Hanes
Dangelmajer, Sean	Testosterone Regulation of NMDA Receptors in Relation to Sensorimotor Vocal Learning in Female Canaries	Dr. Gregory Ball
Deo, Prabhav	Reconciling Object-based Attention with Independent Feature Selection	Dr. Jonathan Flombaum
DiFrancesco, Nolan	"New Media" in the Arab World: A Look into Beirut	Fadel Abdallah
Doctor, Zainab	Discovery of Cellular Metabolites Regulating Mammalian Acetyl-Coenzyme A Synthetases	Dr. Young-Sam Lee
Fan, Jean	Improving Computational Models of the Biological Consequences of Mutation through Limiting the Phylogenetic Distances of Orthologous Sequences	Rachel Karchin
Felsenstein, Kenneth	Tumor Angiogenesis: Rational Development of Therapeutic Strategies	Dr. Hans-Joerg Hammers
Ferguson, Jacqueline	Secondhand Smoke on the Homewood Campus	Dr. Erika Tang
Furman, Jonah	The Anti-postmodernist Ethics of David Foster Wallace's "The Pale King"	Yi-Ping Ong
Jayatilaka, Hasini	The Role of Actin Bundling and Crosslinking Proteins in Cancer Cell Motility in 3D Matrices	Denis Wirtz
Kim, John	The Centrosome-associated Retrogene, Centrin 1, is a Novel Cancer Testis Antigen Biomarker and Plays a Key Role in Cancer	Dr. Robert Getzenberg
Krishnaswamy, Akshay	Independent Spatiotemporal Neural Patterns Underlying Reach-to-Grasp Movements	Dr. Nathan Crone
Kumar, Nishant Ganesh	Development of a Microfluidic Platform for Isolation of Axonal Materials to Assay to Microglia	Dr. Nitish Thakor
Lee, Seung Hoon	Developing Cross-synaptic Tracers to Map the Neural Circuitry	Dr. Hongjun Song
Li, Xiang	Engineering Brain Tumor Cells With Built-in Oxygen Sensors	Arvind P. Pathak
Lin, Tiras	Fly on a Wall: A Combined Experimental-Computational Study of the Aero and Body Dynamics of Landing in a Fruit-Fly	Dr. Rajat Mittal
Luna, Rubi	Stress and Coping: Baccalaureate Nursing Students in Clinical Simulations	Darcy Thompson

Ly, Maria	Pattern Separation of Verbal Stimuli in Young and Older Adults	Dr. Michael Yassa
Magruder, Katherine	The Life and Times of Ferdinand Palmo: Food and Music in Nineteenth Century New York City	Susan Weiss
Mana-ay, Margarita (Sachi)	Community Attitudes about Domestic Violence and Effects on Resource Utilization	Dr. Jacquelyn Campbell
Pan, Simon	Unraveling the Apoptotic Signaling Pathways Regulated by Pax6 During Retinal Development	Valeria Canto-Soler
Park, Hyun Sung	Formation of Neuromuscular Junctions using Embryonic Stem Cell-Derived Motor Neurons in a Novel Compartmentalized Microfluidic Chamber	John McDonald; Inhong Yang
Peijnenburg, Elizabeth	Directed Differentiation of Endothelial Cells from Human Pluripotent Stem Cells	Dr. Sharon Gerecht
Pigula, Anne	Gender Differences in Skeletal Muscle Ischemic Response	Dr. Feilim Mac Gabhann
Powers, Richard	Computational Modeling of the Stereocilia Membrane and the Implications for Hair Cell Mechanotransduction	Dr. Alexander Spector
Ram, Anita	Evaluating the Nutrition Transition in South India	Lawrence Cheskin
Rosenberg, Andrew	A Constitutional and Political Examination of the Same-sex Marriage Debate	Joel B. Grossman
Rubino, Lauren	Understanding the Use of Milk, Milk Additives and Milk Substitutes among Low-Income Latino Parents in Baltimore	Dr. Pamela Jeffries
Sambade, David	Redox Catalysis with Metalloporphyrin-Functionalized TiO ₂ for Solar Energy Conversion	Dr. Gerald Meyer
Sevilla, Arianne	Measurement of Peeling Forces	Dr. Joelle Frechette
Silva, Malena	Spatial Language and the Spatial Deficit in People with Williams Syndrome	Barbara Landau
Smith, Eva	Labor, Struggle, and Change: The Story of Leticia Najarro Romero and Her Role in the Labor Movement of Guatemala	Peter Beilenson
Snavely, Andrew	Odorant Receptor Trafficking in Olfactory Sensory Neurons	Haiqing Zhao
Su, Steven	Visualization and Quantitative Analysis of Ras Small GTPase in Primary Cilia Resorption	Dr. Takanari Inoue
Treiger, Alex	Health Care, Civil Rights, and Congress's Contested Power: The Evolution of the Commerce Clause	Joel Grossman
Tu, Ang (Andy)	Acellular Artificial Lymph Node (aaLN) for Generation of Antigen-specific Cytotoxic Lymphocytes	Dr. Jonathan Schneck
Valarezo, Stephanie	Characterizing Lysosomes in Differentially Invasive/Metastatic Breast Cancer Cell Lines	Dr. Kristine Glunde
Yang, Hui	Inhibition of the nuclear factor CTCF leads to microphthalmia in early eye development	Dr. Valeria Canto-Soler
Yap, Ava	Cadherin-Based Cancer Cell Motility in Epithelial Tissues	Dr. Denis Wirtz
Zahid, Sohail	Imputing Linkage Disequilibrium for Genome-Wide Association Studies	Dr. Joel Bader

AY 2009-10 PURA Awardees

Awardee	Proposal Title	Mentor
Alexander, Stephen	Amide-type Collagen Cross-Linking and the Viscoelastic Response of Cornea to Controlled Inflation	Dr. Thao Nguyen
Armstrong, Patrick	Hydrogels and Stem Cells: Therapies for Fixing a Broken Heart	Dr. Roselle Abraham
Bjergaard, David	Searches for New Particles Decaying to Two Energetic Top Quarks at the Compact Muon Solenoid Detector at the LHC	Dr. Petar Maksimovic
Brennan, Mark	Ethical, Practical, and Multilateral Metrics in Climate Change Mitigation	Dr. Benjamin Zaitchik
Chakravarti, Leela	Amyotrophic Lateral Sclerosis (ALS) Induced Changes in Basigin Expression Patterns	Dr. Jeffrey Rothstein
Chappell, Ashley	Abuse During Pregnancy Among African-American & Afro-Caribbean Women	Dr. Jackie Campbell
Danish, Husain	Determination of the Mechanism of Prostaglandin Synthesis by Cyclooxygenase-2	Dr. Justine Roth
Danner, Thomas	Resynchronizing the Failing Heart: The Role of Cardiac Resynchronization Therapy in Modulating the β -adrenergic Response	Dr. David A. Kass
Davis, Chung-Ha	Roles of Galectin-3 (Mac-2) and Gpnmb in Glaucoma Neuropathology	Dr. Nicholas Marsh-Armstrong
Degirmenci, Alperen	Tactile and Graphical Displays for Robot-Assisted Minimally Invasive Surgery	Dr. Allison Okamura
Dilley, Robert	The Identification of Epigenetic Biomarkers for Myeloid Malignancies	Dr. Michael McDevitt
Downey, John	Channelrhodopsin-2 Manipulation of Neuroplasticity	Dr. Galit Pelled
Dria, Stephen	Development of a Microfluidic Platform for Neural Stem Cell Differentiation and Proliferation	Dr. Nitish Thakor; Dr. Avindra Nath
Dunlap, Stephen	Neural Substrates of Musical Scale Perception	Dr. Charles Limb
Gupta, Manaswi	Retinal Tool Tracking Algorithms: An Investigative Approach	Dr. Gregory Hager
Hong, Karen	Lectin Conjugated Nanoparticles for Targeted Multi-Modal Imaging of Tumor Endothelial Cells	Dr. Arvind Pathak
Houlihan, Peter	Phenotypic Plasticity among Populations of Nymphalid Butterflies in Biogeographically Diverse Tropical Forest Habitats	Dr. Gregory Ball
Huang, Ally	Pancreatic Cancer Stem Cells and the Microenvironment	Dr. William Matsui
Jiam, Nicole	Changes in Prefrontal Cortical Neuron Number and CRF-Immunoreactive Interneurons in Relationship to Age-Related Cognitive Decline	Dr. Michela Gallagher
Johnson, John Caleb	The Persian Diaspora and its Effects on Musics of the Middle East	Dr. Susan Weiss
Jun, Heechul	Characterization of Cellular Mechanisms of Paroxetine on Adult Hippocampal Neurogenesis	Dr. Hong Jun Song
Lee, Moon Young (Liza)	Computational fd Phage Coat Protein Structure Prediction and Design for the Assembly of Hydroxyapatite Nanorods and Bone Tissue Regeneration	Dr. Jeffrey J. Gray
Lee, Sooji	The Effect of Platelet Derived Growth Factor on the Activation of Matrix Metalloproteinases and the Invasive Capacity of Human Derived Brain Tumor Stem Cells	Dr. Alfredo Quinones-Hinojosa

Levine, Matthew	The Capacity and Quality of Spatial Working Memory	Dr. Jonathan Flombaum
Livaditis, Laura	Evaluating Children for Obstructive Sleep Apnea: A Comparison of Community Physicians to Board-Certified Sleep Medicine Physicians	Dr. Laura Sterni
Muftuoglu, Yagmur	Refined Virtual Docking and Chemical Analyses for the Development of Novel Nonsteroidal Inhibitors of Human Aromatase (CYP19)	Dr. Lise Dahuron
Narayanan, Manisha	Detecting Cosmic Rays: From Public Awareness to Calibration of Particle Detectors	Dr. Andrei Gritsan
Niphadkar, Nitish	The Physical – Chemical Basis of FGFR3 Activation in Achondroplasia	Dr. Kalina Hristova
No, Eul (Elisa)	Development of a Cell Based High-Throughput Co-Culture Assay to Identify Compounds that Interfere with Endothelial Cell-Pericyte Association	Dr. Hans Hammers
Ong, Spencer	Designing and Implementing an Accurate and Spatially-Adaptive Poisson Solver for Applications in Computer Graphics	Dr. Michael Kazhdan
Pak, Thomas	Proliferative Capacity of the Hypothalamic Proliferative Zone across Different Age Points	Dr. Seth Blackshaw
Pan, Deng	Shape Dependence in Nanoparticle-Mediated Gene Delivery	Dr. Hai-Quan Mao
Sabeva, Sevdalina	Experimental Study of Topology Optimization in Civil Engineering Design	Dr. James K. Guest
Scattergood, Lindsay	Cochlear Implant Mediated Music Perception in Children	Dr. Charles Limb
Sengupta, Srana	The Sweet Nature of DNA Damage Repair	Dr. Natasha Zachara
Seow, Dominique	Characterizing the Diversity of the Soil Microbial Community of the Atacama Desert	Dr. Jocelyne DiRuggiero
Shah, Millie	Computational Modeling of VEGF and sFlt-1 to Simulate Pre-Eclampsia and Evaluate Treatments	Dr. Feilim Mac Gabhann
Shen, Yichen	Simulation of Dynamics in Artificial Spin Ice	Dr. Oleg Tchernyshyov
Sheth, Danica	Investigating Electrowetting on a Dielectric: Influence of Contact Angle Hysteresis on Electrowetting Performance	Dr. Joelle Frechette
Silverman, Justin	Developing Ultrashort Carbon Nanotubes	Dr. Nina Markovic
Som, Avik	Cyclodextrin (CD-COOH) Hydrogels: Mimicking Cellular Microenvironments for Cartilage Tissue Engineering	Dr. Jennifer Elisseeff
Steinert-Threlkeld, Shane	A New Approach to Biomedical Ontologies	Dr. J. Tilak Ratnanather
Stingl, Katherine	Mechanisms Underlying Meal-Entrainment	Dr. Timothy Moran
Tobochnik, Steven	Contributions of Olfactory and Trigeminal Signaling to Odor Perception in Mice	Dr. Haiqing Zhao
Tsay, Annie	Role of Antibody in Control and Clearance of Measles Virus Infection in Primary Respiratory Epithelial Cells	Dr. Diane E. Griffin
Tueros-Grimaldo, Luis	Visualization of Metadata in Environmental Wireless Sensor Networks	Dr. Andreas Terzis
Vorsanger, Greg	RFID Protected USB Flash Drive Hub	Dr. Gerald Masson
Wach, Zachary Allen	Neuronal Differentiation of Human Induced Pluripotent Stem Cell by Pulsed Electrical Field	Dr. Hai-Quan Mao
Warren, Andrew	Development of a Photobiomodulation Treatment System Using a 3D Hydrogel Culture Model	Dr. Jennifer Elisseeff

Wu, Annie	Innovative DNA Vaccine for Human Papilloma Virus-Associated Head and Neck Cancer	Dr. Chien-Fu Hung
Yang, Peter	Polymeric siRNA Delivery for Knockdown of eGFP Expression in HUVECs and hMSCs	Dr. Warren Grayson
Yerramsetti, Ashok	Do Spatial Memory Principles Apply to Real World Environments?	Dr. Amy Shelton
Yoo, David	Investigating an Interaction between Salmonella-Induced Tubules and MHC Class II Trafficking	Dr. Trina A. Schroer
Young, Arthur	Assessment of Pre-surgical Psychological Screening in Patients Undergoing Spine Surgery: Implementation and Clinical Impact	Dr. Richard L. Skolasky, Jr.

AY 2008-09 PURA Awardees

Awardee	Proposal Title	Mentor
Atri, Deepak	The Migration and Recruitment of Human Neural Progenitor Cells in Response to Glioblastoma	Dr. Alfredo Quinones-Hinojosa
Barone, Brian	The Vihuela in Colonial Cuzco	Dr. Susan Weiss
Bhashyam, Abhiram	Effect of Immunosuppression and Denervation on Mucociliary Clearance in a Murine Model	Dr. Beth Laube
Bhuiyan, Nadir; Ma, Henry; Porter, Justin; & Wei, Tiffany	iGEM 2009: Designing a Heavy Metal Biosensor	Dr. Marc Ostermeier
Broache, Molly	Identifying Mutations that Affect Left-Right Differences in the Brain	Dr. Marnie Halpern
Chavez, Cy	Characterization of TRH Targets Required for Epithelial Cell Invagination	Dr. Deborah Andrew
Dang, Eric	Role of Hypoxia-Inducible Factor 1 in Mediating Regulatory T Cell Functions and Development	Dr. Drew Pardoll
De, Avik	Neuromechanical Control of Cyclic Tasks	Dr. Noah J. Cowan
Doyle, Sarah	The Government's Capacity to Continue Development	Dr. Ben Vinson
Elbaz, Giselle	Processes Occurring During Doped States of Electronically Conducting Polymers	Dr. John Tovar
Gavini, Madhavi & Generous, Nicholas	Iron Age Idolatry: A New Interpretation of an Iron Age Portrayal of Yahweh and Asherah	Dr. Theodore Lewis
Goh, Amy	Yoga and Cortisol Levels in Victims of Intimate Partner Violence Residing at the House of Ruth Maryland	Dr. Phyllis Sharp
Graczyk, Halshka	The True Price of Gold: Examining Gender Disparities to Mercury Exposure in Female Mongolian Miners	Dr. Ellen Sibergeld
Hassani, Sara	The Effect of Maternal Stress and Nutrition of Offspring Food Preference	Dr. Timothy Moran
Iyer, Shrivats	Real Time Somatosensory Evoked Potential Analysis	Dr. Angelo All
Keeley, Brian	Development of a Single Tube Nanosensor Methylation Detection System	Dr. Jeff Wang
Kinka, Hilary	Overdevelopment of the Underdeveloped: Microfinance Effects in Peru	Dr. Mark Blyth
Krishnamurthy, Ranjini	Relating ECM stiffness to Cancer	Dr. Denis Wirtz
Lucussol, Christophe	Fundamental Study on Swelling of Clays	Dr. Annalingam Anandarajah
Lukasik, Tanya	Mobile in Mobile, AL: Moving Up the Ladder of Social and Geographic Opportunity	Dr. Stefanie DeLuca
Millman, Daniel	One of the Network Level Implications of Changes in Reliability Accompanying Synaptic Maturation: A Computational Investigation	Dr. Ernst Niebur
Miranda, David	A Novel Technique in Tuberculosis Therapeutics: Inhibiting Chorismate Mutase Sensitizes <i>Mycobacterium tuberculosis</i> to β -lactam Antibiotics	Dr. William Bishai
Modarres, Mohammad	Fashion with a Purpose: How Consumerism, the Material Economy, and Social Entrepreneurs Can Bring Positive Changes to African Communities	Dr. James Goodyear & Joan Freedman

Park, Carolyn	Role of Geometry and Ventricular Conduction Sensitivity to Sodium Current in Reentry Inducibility	Dr. Natalia Trayanova
Park, Kevin	Technological Innovation and the Status of Modern Civil Legal Aid in the UK	Dr. Joel Grossman
Qiu, Judy	Investigating the Role of Ken in JAK-STAT Stem Cell Regulation	Dr. Erika Matunis
Raetz, William	Simplices and Sphere Packing; Derivation of Lattices via Rotation	Dr. Andrew Salch
Riche, Carson	Vector Separation of Brownian Particles through Interfacial Interactions	Dr. German Drazer
Rogers, Michael	A Historical Study of Mental Hygiene Research at JHU and its Implications for Community Relations in East Baltimore	Dr. Veena Das
Saner, Katelyn	"To See the Sun Go Down on Galway Bay" - The 1930s Razing of Claddagh Village	Dr. John Marshall
Senders, Zachary	The Impact of Strain Treatment on Neuropathic Pain and Regeneration Following Sciatic Nerve Injury	Dr. Beth Murinson
Shiau, Stephanie	Development of a Music Training Program for the Deaf Individuals with Cochlear Implants	Dr. Charles Limb
Shin, Donghoon	Investigating the Dynamic Properties of Switchable Surfaces	Dr. Joelle Frechette
Spicer, Calum	Bulgarian Solitaire Games	Dr. Fred Torcaso
Suarez, Allison	Using Directed Evolution as a Method for Improving the Expression of the <i>Flavobacterium johnsoniae</i> homologue of the Mammalian Na ⁺ /I ⁻ Symporter (NIS)	Dr. Sandra Gabelli & Dr. L. Mario Amzel
Suri, Vivek	Intrinsic Reformations of Test Theories of Special Relativity and the Problem of the One-Way Speed of Light	Dr. Robert Rynasiewicz
Tong, Olivia	Noise Induced Hearing Loss and Personal Music Players	Dr. Howard Francis
Tooley, Jimmy	Does Fis1 Affect the Assembly-Dependent GTP Hydrolysis by Drp1?	Dr. Blake Hill
Wu, Annie	Innovative Immunotherapy for the Control of Melanoma	Dr. Chien-Fu Hung
Yoo, David	Live-cell Imaging of Salmonella-induced Tubules	Dr. Trina Schroer
Zhong, Weixi	Engineering Cell-Adhesive Mucus-Penetrating Nanoparticles for Sustained Drug Delivery for Mucosal Surfaces	Dr. Justin Hanes

AY 2007-08 PURA Awardees

Awardee	Proposal Title	Mentor
Akinci, Ersin	The Torrid Zone in Fifteenth and Sixteenth-Century Western and Islamic Science	Dr. Richard Kagan
Azam, Anum	The Role of surface Tension Forces in 3D Self-Assembly of Nanoparticles	Dr. David Gracias
Chang, Jiwoon	Observing the Development of Motor Neuron Cells Using HB9 Promoter	Dr. Assaf Gilad
Chi, Yoonah	The Relationship between the Korean Board Game "Baduk" and Processing speed, Executive Function and Short-Term Memory in Older Adults	Dr. Justin Halberda / Dr. George Rebok
Chieco, Deanna	The Role of the Frizzled-3 Receptor in Sympathetic Nervous System Development	Dr. Rejji Kuruvilla
Chuang, Yung-Chi	Microscopic origin of the Slip Boundary Condition at a Fluid Solid Interface	Dr. German Drazer
Chung, Jaeyoon	TRB3 as a Critical Mediator of Melanoma Progression	Dr. Rhoda Alani
Colacurcio, Daniel	Boronate Compounds Modulate MAG-Mediated Inhibition of Axon Regeneration	Dr. Ronald Schnaar
De, Avik	Simultaneous Localization and Mapping (SLAM) with Sparse Sensing: A Topological Approach	Dr. Noah J. Cowan
De, Debalina & Irivinti, Soumya	Detection of HIV Infection Among Neonates Using a Biobarcode-Based Nanoparticle Assay on Dried Blood Spots	Dr. Deborah Persaud
DiCarlo, James	Mating Type and Ploidy Detector for <i>S. cerevisiae</i> - Joint Proposal	Dr. Jef Boeke
Donato, Kristin	Genetically Engineering Fluorescent Brain Tumor Cells	Dr. Arvind P. Pathak
Fehrenbacher, Anne	Not for Sale: Human Trafficking Across the Atlantic	Dr. Lingxin Hao
Fortes, Precious	Migrating Bodies: How Migration Has Altered Health Care and Education in Poor Rural Provinces of Northern Philippines	Dr. Clara Han
Gilbert, Jonathan	Reversible Removal of Cells from a Surface Using a Switchable Low Density SAM	Dr. Joelle Frechette
Hays, William	The State of Modern Opera: A Technical Examination and Cultural Investigation	Dr. Hollis Robbins
Heng, Joseph	Cochlear Implant-Mediated Perception of Musical Timbre	Dr. Charles J. Limb
Heshmati, Mitra	Time-Lapse in Vivo Imaging of Collateral Sprouting by Cerebellar Climbing Fibers	Dr. David Linden
Hoogland, Alexander	Exploring the Environmental Chemistry and Fate of a Highly Used Herbicide Safener in Natural and Engineered Systems	Dr. Lynn Roberts
Huberdeau, David	Development of an Upper-limb Prosthetics EMG-Based Control System	Dr. Nitish Thakor
Kegelman, John	Fluid Mechanical Evaluation of Arm Stroking Patterns in Front Crawl Swimming	Dr. Lester Su
Kelly-Clyne, Lucas	On Level Ground? A Post-Baccalaureate Study Examining the Financial Successes and Political Preferences of 1997 College Graduates from the Johns Hopkins University and the University of Maryland	Dr. Karl Alexander
Kizub, Vasilisa	Advancement of Research on Gene Expression: Defining the Molecular Significance of Chromosomal Remodelers	Dr. Gregory Bowman

Lasak, Jill	The Relationship between the Korean Board Game "Baduk" and Processing speed, Executive Function, and Short-Term Memory in Older Adults	Dr. Justin Halberda / Dr. George Rebok
Liu, Jaime	Mating Type and Ploidy Detector for <i>S. cerevisiae</i> - Joint Proposal	Dr. Jef Boeke
Liu, Su	The Effect of Maternal Antibodies of Mothers of Children with Autism in Mouse Models	Dr. Harvey Singer
Mani, Sneha Ramesh	The Role of the Cajal Body in Small RNA Processing	Dr. Trina Schroer
Mao, Chih-Ping	A Novel DNA Vaccine Based on Linkage of Antigen to Viral Fusogenic Membrane Glycoproteins	Dr. T-C Wu
Moscou-Jackson, Gyasi	IPV Screening Preferences of African American & Afro-Caribbean Women Seen in Healthcare Settings	Dr. Jacquelyn Campbell
Neumann, Neil	Elucidating 3D Geometry in the AraC Protein Using Lanthanide-based Resonance Energy Transfer	Dr. Robert Schleif
Orchard, Rebecca	Integrated Music Analysis in fin de siecle Vienna	Dr. David Smooke
Pang, Oi-yng (Irene)	The Effects of Microfinance on Informal Finance among Urban Market Women in Ghana: A Case Study	Dr. Joel Andreas
Plovanich, Molly	Enhancing the Stability of the Notch Ankyrini Domain through Consensus-Based Mutagenesis	Dr. Douglas Barrick
Rao, Aarthi	An Examination of Identity in Young Adult Indian: American Short Fiction	Dr. Jean McGarry
Rao, Nikhil	siRNA Inhibition of Pro-Apoptotic Genes in Stem Cells	Dr. Michael Betenbaugh
Robinson, Sarah	Prevalence and Health Effects of Post-Traumatic Stress Disorder in African-American and Afro-Caribbean Women	Dr. Jacquelyn C. Campbell
Rosinsky, Lisa	Poetry in Performance: From Auditory Imagination to Spoken Word	Mr. Douglas Basford
Senders, Zachary	The Impact of Statin Treatment on Neuropathic Pain and Regeneration Following Sciatic Nerve Injury	Dr. Beth Murinson
Sepelyak, Kathryn (Kari)	Effects of Temporal-Parietal vs. Inferior Frontal Cortex Damage on Temporal Order Processing	Dr. Argye Hillis
Shah, Nisarg	Evaluation of Mucus Penetrating Biodegradable Polymer Nanoparticles in Mice Lungs for Delivery of Chemotherapeutics for Lung Cancer	Dr. Justin Hanes
Son, Janice	Relativity of Early Glial Activity in Optic Nerves of the DBA/2J Glaucoma Mouse Model	Dr. Nicholas Marsh-Armstrong
Speilman, Ingrid	Mating Type and Ploidy Detector for <i>S. cerevisiae</i> - Joint Proposal	Dr. Jef Boeke
Strong, Shelby	The Cleveland Orchestra's Musical Response to World War II Culture: 1940-1942	Dr. Richard Giarusso
Sudduth, Wesley	Kelo, Hathcock, and eminent Domain in America: The Struggle Between Personal Freedom and the Collective Benefit	Dr. Joel Grossman
Sue, Gloria	Interactions Between Internal and Surface Charges in Proteins	Dr. Bertrand Garcia-Moreno
Tan, Grace	Investigating Ventricular Tachycardia as a Result of Premature Stimuli in a Three-Dimensional Canine Cardiac Model of Heart Failure	Dr. Natalia Trayanova
Tsen, Shaw-Wei (David)	Inactivation of Viral Pathogens Using Femtosecond Lasers	Dr. T.-C. Wu

Vincent, Callie	Psychological workplace Violence and Depression Rates in Nurses	Dr. Jacquelyn Campbell
Yen, Jonathan	Generation of Patient-Specific Human Pluripotent Stem Cells without Integrating Viral Vectors	Dr. Linzhao Cheng

AY 2006-07 PURA Awardees

Awardee	Proposal Title	Mentor
Alam, Shahed	3D Visualization of Murine Vascular Architecture	Dr. Arvind Pathak
Bagert, John	The Design of a Low-Density ssDNA Surface with Switchable Conformation	Dr. Joelle Frechette
Benson, Bryan	Fabrication of New Types of Nancubes, Research of Innovative Techniques for this Fabrication	Dr. David Gracias
Bloom, Ryan	Mapping the Mechanical Forces generated by Tumor Cells During Proteolytic and Non-Proteolytic Migration in a 3D Matrix	Dr. Denis Wirtz
Cerato, Steffi	A Look at Slavery Freedom Suits in the United States South, the Similarities and Departures in the Battle for Freedom Across the Southeastern Courts	Dr. Michael Johnson
Chan, Iris	The Urban Geography of Pverty: Resource Allocation and Libraries in Baltimore	Dr. Erica Schoenberger
Colacurcio, Daniel	The Mechanisms by which Sialidase Inhibits Ganglioside Binding of Myelin-Associated Glycoprotein	Dr. Ronald Schnaar
Condell, Gillian	Surgery and Sleep in Rats	Dr. Gayle Page
Elashvili, Sarah	Distinct Functional Mechanisms of NDE1 and NDEL1 through Interaction with DISC1	Dr. Akira Sawa
Gandhi, Shiv	APOBEC3G Mediated Control of Viral Replication in Elite Suppressors Objective	Dr. Robert Siliciano
Gatchell, Anne	Modeling Switching Behaviors and Monolayer-Modified Surfaces in the Presence of Salts	Dr. Joelle Frechette
Husain, Yasmin	Biotinylation of Acute Hippocampal Slices	Dr. Stewart Hendry
Hwang, Karin	Identification of Specific Protein Involvement in Bacterial Contractility	Dr. Denis Wirtz
Ireton, Jordan	Uncovering Mechanism of Light Detection by Melanopsin Through Mutational Analysis	Dr. Samer Hattar
Kim, Eric	Designing Face-Specific Inorganic Surface Binding Peptides	Dr. Jeffrey Gray
Kizub, Darya	Assessment of Barriers to Successful Implementation of Anti-Retroviral Therapy in Russia	Dr. Chris Beyrer
Koenig, Gregory	A Pedagogical Study of the Chinese Classical Guitar School with Professor Chen Zhi	Dr. Julian Gray
Kwong, Yuen-Ting (Diana)	Developing Methods to Optimally Estimate Glomerular Filtration Rate from Serum Creatinine and Cystatin C	Dr. Josef Coresh
Lee, Se Ryeon	Oxidation Reaction of Alkenes Catalyzed by Metallocorrolazine Nanoparticles	Dr. David Goldberg
Limpitkul, Worowan	Differentiation of Mouse Embryonic Stem Cell-Derived Cardiomyocytes Using Electrical Stimulation	Dr. Leslie Tung
Liu, Cindy	Activity Dependent Integration of Newborn Neurons into the Adult Hippocampus	Dr. Hongjun Song
Lucas, Kristin	Creating Single Nanowires Through Nanopores	Dr. Nina Markovic
Medford, James	The Controlled <i>in situ</i> Deformation of Carbon Nanotubes to Create Room Temperature Quantum Dots	Dr. Nina Markovic
Otter, Ada	Trajectory of Abuse During Pregnancy: Impact on Breastfeeding and Pregnancy Outcomes Among High Risk Women in Portland, Oregon	Dr. Jacquelyn Campbell
Pak, Diana	Spatial Learning, Sensory Modality, and Autistic Traits	Dr. Amy Shelton

Pellakuru, Laxmi	Detection of S-Nitrosylation in Prostate Cancer <i>in situ</i>	Dr. Srinivasan Yegnasubramanian
Shaev, Jason	A Study of the Effectiveness and Possible Improvement of Each B-Jet Tagging in the CMS Pixel tracker	Dr. Petar Maksimovic
Tuerk, Arin	Updating Working Memory Representations in Human Adult and Infants	Dr. Lisa Feigenson

AY 2005-06 PURA Awardees

Awardee	Proposal Title	Mentor
Ahmad, Adnan	Radical Islamism and State Crackdown: Examining the Implications of Bangladesh's Strategy to combat Domestic Terrorism	Dr. Waleed Hazbun
Ahn, Phan Nguyen Tu	Do Secreted Mucosal Antibodies Help Regulate Vaginal Microflora?	Dr. Richard Cone
Arceci, Andrew	The Viola da Gamba: A New Setting	Dr. John Moran
Boock, Jason	Exploring the Structure and Catalytic Mechanism of a Protein Switch Using Quantum Dots	Dr. Marc Ostermeier
Brinster, Meredith	Inference vs. Instruction: The Difference Between Indirect and Direct Word Learning in Preschoolers	Dr. Justin Halberda
Brown, Tashalee	A Novel Technique of Detecting S-nitrosylation of Proteins in multiple Systems	Dr. Dan Berkowitz
Busch, Rebecca	Notch3 Signaling in the Development of Ovarian Cancer	Dr. Tian-Li Wang
Chen, Clive	Overcoming Extracellular and Intracellular Barriers in Gene Delivery for Cystic Fibrosis via PEGylated Polycationic Nanocomplexes of Various Shapes	Dr. Justin Hanes
Chiang, Chih-Sheng (Jason)	Correlating Alterations in Serotonergic Activity with the Systematic Anticonvulsant Activities Associated with Deep Brain Stimulation	Dr. Marek Mirski
Clark, Kevin	Some Ado: An Original Opera Film	Roger Brunyate
Demir, Alican	A New Approach in Tactile Sensing: Fiber Optic Array Sensor	Dr. Noah Cowan
Elser, Jeremy	Blood Vessel Responsiveness Consequences Due to Microgravity Conditioning	Dr. Artin Shoukas
Fritz, Kyle	Effects of EGF Receptor Over Expression on Tumor Colony Growth Dynamics	Dr. Andre Levchenko
Gangi, Jerzy	Designing and Implementing A Web-Based Toolkit for Ear Training: The Virtual "TA"	Dr. Courtney Orlando
Gedeon, Patrick	The Role of GDF-11 and Regulating Neuronal Development and Differentiation in the mammalian Olfactory System	Dr. Randall Reed
Gleason, Emily	Identification and Purification of SUMO Binding Proteins	Dr. Michael Matunis
Gray, Chase	Anxiety as a Predictor of Chronic Pain Susceptibility in Rats	Dr. Gayle Page
Han, James	Human Neural Stem Migration in an Organotypic Culture Model	Dr. Alfredo Quinones
Hui, Alexander	Effects of Autologous Mesenchymal Stem Cells on Interposition Bone Block Arthrodesis of the First Metatarsophalangeal Joint	Dr. Jennifer Elisseeff
Keating, Theresa	The Role of Singing Behavior in Testosterone-Induced Brain Plasticity in Female European Starlings	Dr. Greg Ball
Kennedy, Patrick	Between the Essence and the Descent: A Study in First-Person Long Fiction on the Contemporary American Experience and European Cultural Tradition	Jean McGarry
Khatau, Shyam	Study of the Cytoskeletal Structure of Progeric Cells and Its Implications for Other Diseases	Dr. Denis Wirtz
Khetan, Sudhir	Exploiting Dibenzoylmethane, A Curcumin Analog, for Treatment and Prevention of Lung-Inflammation Induced Lung Cancer	Dr. Justin Hanes
Lazorowitz, Aaron	The Dialectical Disputations of Lorenzo Valla (1405/07-1457): English Translation	Dr. Christopher Celenza

Le, Lan	Structural Determinants Underlying Targeting of L-type Ca ⁺² Channels to Dyadic Junctions in the Heart	Dr. Henry Colecraft
Lin, Benjamin	Investigation of the Synergistic Effects of Mechanical and Chemical Cues on the Directed Migration of Fibroblast Using a Micronanofluidic Device	Dr. Andre Levchenko
Mao, Chih-Ping	A novel RNA interference-based DNA vaccine for the treatment of cervical cancer	Dr. T.C. Wu
Masi, Byron	P Granule Motion in the Nematode C. Elegans	Dr. Denis Wirtz
McCullough, Corey	Herbicide Disinfection By-Products: Toxicity and Formation During Drinking Water Treatment	Dr. A. Lynn Roberts
Mediratta, Rishi	Clinical Presentations of Diarrheal Disease in Children in Bangladesh and Ethiopia	Dr. R. Bradley Sack
Ng, Win Pin	Computational Model of Cell Cycle Regulation by RanGTP Gradient	Dr. Pablo Iglesias
Peterson, Altair	Women at Work in Charm City	Dr. Melanie Shell-Weiss
Primma, Svetlana	Determining the Effects of Point Mutations on the Ligand-Binding and Function of a Gene-Regulatory Protein AraC	Dr. Robert Schleif
Rasmussen, Robert	Competition as a Motivation Factor in Learning	Dr. Nitish Thakor
Samson, Michelle	Behavioral Roles of the CNGB1b Channel Subunit in mice	Dr. Haiqing Zhao
Shin, Mi	Studying the Adsorption of Natural Organic Matter (NOM)	Dr. Howard Fairbrother
So, Stephen	Three-Dimensional Co-Culture Model	Dr. Jennifer Elisseeff
Takiar, Vani	Tancytes: A Quiescent Neural Stem Cell Population in the Adult Hypothalamus?	Dr. Seth Blackshaw
Tomich, David	Characterization of a Human Insulator Protein	Dr. Victor Corces
Walker, Rachel	Partner Violence and HIV/AIDS Related Behavioral Outcomes in Women of African Heritage	Dr. Phyllis Sharps
Wang, Jennie	Bovine-Cornea-Derived matrix for Corneal Tissue Engineering	Dr. Jennifer Elisseeff
Wang, Ying-Ying	Transport of Functionalized nanoparticle Carriers in Cervical Vaginal Mucus for Topical treatment of Cervical Cancer	Dr. Justin Hanes
Watanabe, Hanano	Examination of EGF Receptor Clustering in A431 Cells: A Molecular Approach and Analysis using Forster Resonance Energy Transfer (FRET) and Environmental Scanning Electron Microscopy	Dr. J Michael McCaffery
Wong, Gary	Effect of Broad Spectrum Cox Inhibitors on cAMP Dependent F508-CFTR Activation	Dr. Pamela Zeitlin
Yee, Sarah	HIF-2OL 34\WP Greek Courier"\s 12 Expression and Its Effects on Renal Cell Carcinoma	Dr. Gregg Semenza

AY 2004-05 PURA Awardees

Awardee	Proposal Title	Mentor
Ackerman, Donna	Thy Daughter's Nakedness: A Study Of The History Of The Law Of Incest And Its Prevalence In Today's Society	Dr. Joel Grossman
Arceci, Andrew	The Viola da Gamba, Violone, and the Modern Double Bass	Dr. Susan Weiss
Bansal, Anshuman	The 60-Year Johns Hopkins Surgical Experience with the Blalock-Taussig Shunt Operation	Dr. William Baumgartner
Brown, Warner	Nostalgia for Old Shanghai and the Renewed Popularity of Early Twentieth Century Commercial Art	Dr. Tobie Meyer-Fong
Chang, Corey	Determining the Contribution of Murine APH-1 Isoforms in Influencing Gamma-secretase Activity in Various Regions of the Adult Brain	Dr. Philip Wong
Chang, Tony	A Novel, in vitro Model of Tocolytic Desensitization	Dr. Martin Slodzinski
Chansakul, Thanissara	Effects of Mesenchymal Stem Cells on Chondrogenesis of Embryonic Stem Cells in 3-D Poly (ethylene-glycol) based hydrogel	Dr. Jennifer Elisseeff
Cheng, Sean	Controlling Uniform Nanoparticle Fabrication Using Molecular Templates	Dr. David Gracias
Chyou, Anthony	Role of the Endosomal Na ⁺ (K ⁺)/H ⁺ Exchanger, Nhx1, in K28 Viral Toxin Induced Cell Death	Dr. Rajini Rao
Cogan, Joshua	The Watermark Soil Moisture Sensor: Is it Suitable for Long Term Soil Monitoring?	Katalin Szlavecz
David, Sarah	Balancing Security and Civil Liberties: The British Experience with the IRA	Dr. Joel Grossman
Edington, Claire	Microbicides and HIV Transmission: Using Social Science Methods for a Public Health Project in Mtubatuba, South Africa	Dr. James Goodyear
Evans, Jared	Fabrication of 3D Ordered NanoPorous Gold for Chemical Sensors	Dr. Gabor Domokos
Goldman-Petri, Megan	Cult Practice, Technology, and Science: a JHU Archaeological Collection Case Study	Dr. Eunice Dauterman Maquire
Haws, Kaitlin	Fathers clubs in Rural Haiti and Impact on Child Growth Monitoring	Beth Sloand
Hollingsworth, Laura	Novel Suppressors of a Spindle Assembly Checkpoint Defect	Dr. M. Andrew Hoyt
Juhasz, Ondrej; Pathak, Ravi; Ngo, Anthony; and Bishop, William	Effect of Microgravity on Semicircular Canal and Vestibular Function	Dr. Mark Shelhamer
Khan, Niaz	Study of Apoptosis in Neuronal Networks Locally Transfected by Viral Plasmids	Dr. Nitish Thakor
Ko, Angela	The Effect of the 2008 Olympic Games on China's Political Reform and National Identity	Sonia Ryang
Lande, Galen	Large-Scale Protein-Protein Docking of the Yeast Proteome	Dr. Jeff Gray
Lieberman, Leigh	The Actor of Antiquity and His Devine Spectators: Discovering the Influence of Ancient Hellenic Cults On Modern Artistic Perception	Dr. Dimitrios Yatromanolakis
Lin, Sopo	Magneto-electroporation: A Novel Procedure for Obtaining Magnetically Labeled Stem Cells for MRI Cell Tracking	Dr. Jeff Bulte

Massa, Christopher	Computer Simulation of Ventilation Distribution in a Morphometric Model of the Respiratory System with Applications to Acute Lung Injury	Dr. David Kaczka
McKeen, Corrie	Sickness Behavior Symptoms & Inflammatory Cytokine Levels in Abused Women	Dr. Anne Woods
Mermelstein, Jesse	A Comparative Study of Yeshivish	Dr. Geraldine Legendre
Minnihan, Ellen	A Detailed Kinetic Study of the Reactivity of a New Generation of Peptide Deformylase Model Complexes	Dr. David Goldberg
Natarajan, Venkatesan	The Marrying Age: A Collection of Short Stories	Dr. Jean McGarry
Prabhaker, Hari	Examination and Development of a Genetic Health System to Combat Sickle-Cell Anemia in Tribal India: Investigating Community Sensitization, the Efficacy of Genetic Documentation, Neonatal Screening, and Limited Chemoprophylaxis	Dr. James Goodyear
Riyaz, Fareed	A Limited Structural Genomics Approach to Understanding the Sequence Specificity of F Plasmid Tral36	Dr. Joel Schildbach
Rupprecht, Laura	Dynamics of Bacterial Intermediate Filament Crescentin In Vitro and In Vivo	Dr. Denis Wirtz
Sachs, Natasha	A City of Children in Southern Italy	Dr. Joel Grossman
Stewart, Rachael	LOOKS FOR HOME: The Native American Diaspora	John Mann
Syed, Hyder	The United Nations: Global Power or Paper Tiger? An Analysis of the India-Pakistan Question	Dr. Steven David
Wang, Ying-Ying	Characterization of Nanoparticle Transport in Cervical Vaginal Mucus for Topical Treatment of Bacterial Vaginosis via Polymeric Carriers	Dr. Justin Hanes
Wen, Alexandra	Characterization of Zebrafish FOXP2, A Gene Implicated in Vocalization	Dr. Marnie Halpern
Xu, Yinfei	Computational Studies of Proteins	Dr. Robert Schleif
Youn, Jina	The Role Amygdala Central Nucleus and Substantia Nigra Circuit in Surprise Induced Enhancement of Associative Learning	Dr. Michela Gallagher
Zaleski, Simon	A Consort of Colors: The Double Reed Ensemble	Dr. Susan Weiss
Zuckerman, Jonathan	The Bcl-2 Checkpoint and Programmed Cell Death in <i>Caenorhabditis elegans</i>	Dr. Blake Hill

AY 2003-04 PURA Awardees

Awardee	Proposal Title	Mentor
Aaronson, Alistair	"Genetically Engineered Smooth Muscle Differentiation of Human Stem Cells"	Dr. Yegappan Lakshmanan
Batra, Ayush	"Erythropoietin As a Neuroprotective Agent Against Ischemic Damage in the Spinal Cord"	Dr. Lawrence Schramm
Bhan, Irun	"Cell Cycle Regulation of Dynactin-Nuclear Binding"	Dr. Trina Schroer
Caplan, Justin	"Novel Approaches to Inhibiting the DNA Repair Enzyme O ⁶ -Alkylguanine-DNA-Alkyltransferase for the Treatment of Malignant Brain Tumors"	Dr. Henry Brem
Chen, Chen (Mary)	"The Role of Zyxin in Hematopoietic Stem Cells"	Dr. Curt Civin
Chuang, Nelson	"Analysis of Structure – Function Correlation of the Brain of Cerebral Palsy Patients"	Dr. Susumu Mori
Duarte, Guillermo Felipe	"The effect of Erythropoietin on the release of apoptosis-inducing mitochondrial Cytochrome c in heart failure pigs"	Dr. Lili Barouch
Enriquez, Rica Mae	"Regional scale land-atmosphere interaction using remote-sensing and large eddy simulation"	Dr. Marc Parlange
Gregg, Chris	"B ³ Adrenergic Receptor: Crystallizing Function & Fundamental Second Messenger Pathways"	Dr. Dan Berkowitz
Gupta, Gaurav	"The Role of Klotho in the Cardiovascular Biology of Aging"	Dr. Dan Berkowitz
Hahn, Samuel	"Time-Course of Electrophysiological Remodeling During the Progression of Left Ventricular Mechanical Dysfunction"	Dr. Gordon Tomaselli
Iyer, Sravisht	"Using a Virtual Environment to Explore the Role of Contextual Cueing in Goal-Directed Walking and Cognitive Map Development"	Dr. Kathleen Turano
Jeung, Kristin	"Robotic Scissors for Measurement of Haptic Signals During Surgical Cutting"	Dr. Allison Okamura
Juhaszova, Katarina	"Environmental Science and International Relations"	Dr. Katalin Szlavecz
Kay, Kenneth	"Biochemical Characterization of Melanopsin: Implications in Non-Image Forming Vision"	Dr. King-Wai Yau
Kovalchick, Christopher	"Microsample Tensile Testing of Novel Platinum Alloys"	Dr. William H. Sharpe, Jr.
Kuramoto, Satoko J.	"The Association Between Stress Level and Risky Injection Drug Use Behavior Among Adults Living in an Urban Disadvantaged Area"	Dr. Carl Latkin
Kuroki, Marcos T.	"Fluorescent Resonance Energy Transfer Based Nano Biosensors Utilizing Colloidal Semiconductor Quantum Dots and Molecular Beacons"	Dr. Tza-Huei (Jeff) Wang
Lee, Joe	"Continued Performance Study of Fuel Cell Membrane Electrode Assemblies with Varying Platinum Plating on Nanoporous Gold"	Dr. Jonah Erlebacher
Lee, Won	"The impact of famine on the North Korean Refugee Children in Northeast China: with the focus on their family relations"	Dr. Sonia Ryang
Lillehoj, Peter	"Development of Strain Measurement Techniques in Microsample Testing"	Dr. Kevin Hemker

Lin, Andrew	"Feature Detection, Registration, and Parcellation of the Human Cerebellum"	Dr. Jerry Prince
Lin, Mark W.	"The protein content of intranuclear inclusions in frontal cortex of HDL-2 patients"	Dr. Russell L. Margolis
Loh, Owen	"A Biologically Inspired Artificial Antenna for Robot Locomotion"	Dr. Noah Cowan
Malik, Athar Naveed	"Rational Understanding and Design of Biomaterial Compatibility for Tissue Engineering: Role of DNA Damage in Cell Death Caused by Photopolymerization Reactions"	Dr. Jennifer Elisseeff
Miyagawa, Yu	"Lost Writers and their Lost Works"	Dr. Stephen Dixon
Morelli, Marco	"Investigating Protein Interactions by the HIV-1 Cofactor Tat-SF1"	Dr. Clara Kielkopf
Morrisson, Haley	"Contemporary Responses to the Holocaust: Problems of Memory and Understanding"	Dr. Ruth Leys
Nair, Sandya S.	"Using Cytotoxic agents to treat malignant gliomas in the rat brain"	Dr. Henry Brem
Ogbonna, Chinyere	"The perception of Visual Illusions in Williams Syndrome"	Dr. Barbara Landau
Ong, Daniel	"Gonad Formation in Drosophila melanogaster"	Dr. Mark Van Doren
Pagano, Matthew	"Reconstruction of decay mode $\rho_{\mu 6}^0$ in pp Collisions at $s = 2$ TeV"	Dr. Peter Maksimovic
Prabbhakar, Hari	"A Cross-Sectional Evaluation of the Tribal Health Initiative: A Clinical Model for India's Future"	Dr. Veena Das
Prabhu, Sudhir	"Targeting Gene Carriers to Cancer Cell Nuclei via the Folate Receptor"	Dr. Justin Hanes
Prakash, Shiroman	"The Topology of Entanglements and the Mechanical Behavior of Polymers"	Dr. Mark Robbins
Ranade, Supria S.	"Sorption Isotherms for Phenanthrene with Soot Black Carbon"	Dr. William P. Ball
Riva, Pamela	"The creation of green fluorescent protein – maltose binding protein "switch" through domain insertion"	Dr. Marc Ostermeier
Rowe, Joshua	"William S. Burrough's Nova Trilogy in the Historical Context of Post-Modern Media Theory"	Dr. Ronald Walters
Shah, Aalap	"Cdk/p35 complex phosphorylation of neurofilaments after cerebral ischemia"	Dr. Judy Huang
Shakur, Sophia F.	"Semaphorin 3F Knockout Mouse Model: A New Model for Temporal Lobe Epilepsy"	Dr. Jehuda Sepkuty
So, Stephen	"Role of Cadherin, Actin, Arp2/3 and WASp in Wound Healing"	Dr. Denis Wirtz
Tan, Eric W.	"The functional role of short-term synaptic depression in the processing of moving sensory images"	Dr. Eric S. Fortune
Terpeluk, Christina	"The Qualifications of 19 th Century American Truss Bridges as Structural Art"	Dr. Sanjay R. Arwade
Whelan, Robert	"Han' Me Doon Da Fiddle: Making Links Between The Ethnomusicology and Cultural History of the Shetland Isles"	Dr. Susan Weiss
Wolkoff, Eric	"Judicial Selection in the States: Selection Methods and Their Effects on Justice"	Dr. Joel Grossman

AY 1999-00 PURA Awardees

Awardee	Proposal Title	Mentor
Aaron, Pamela	Adolescent Violence: Addressing the Issues That Affect Quality of Life	Dr. Jacquelyn Campbell
Aniukwu, Jidefor	Isolation and Characterization of Xenopus Laevis BAF	Dr. Katherine Wilson
Baltz, Jennifer	Isolation and Characterization of Dnmlp-Associated Proteins Involved in Mitochondrial Fission	Dr. J Michael McCaffrey & Dr. Beverly Wendland
Braly, Alan	The Mechanical and Structural Response of Human Tooth Enamel to Acid Reflux	Dr. Timothy Weihs
Chaney, Charles	Studies of Transduction of Genes into Human Hematopoietic Stem Cells Using Polymeric Microencapsulation	Dr. Kam Leong
Cord, Brandon	Methamphetamine Neurotoxicity in PARP Knock-Out Mouse	Dr. George Ricaurte
Ding, Ming-Chieh	The Effect of Global Ischemia on Reticular Thalamis Nuclei	Dr. Mitish Thakor
Eucker, Hannah	Optimal Conditions for Protein Sampling	Dr. Christopher Chen
Garg, Shikha	A Functional Study of Seizure Cessation by Electrical Stimulation in a Model of Human Epilepsy	Dr. Marek Mirski
Golob, Jonathan	Regulated Gene Expression in Stem Cell Directed Gene Therapy	Dr. Linzhao Cheng
Guerrero, Christiani	Las Creencias del Embarazo y Parto que Construyeron Las Mujeres Lenca del Occidente de Honduras: Pregnancy and Childbirth Beliefs as Constructed by Women in Rural Honduras	Dr. Linda Pugh
Howard, Victor	Stereological Studies of Synapse Loss in Mouse Models of Aging and Alzheimer's Disease	Dr. Peter Mouton
Kim, Antonio-KiBem	Mechanisms of Transcriptional Repression in the Germ Line	Dr. Victor Corces
Kim, Jihae (Esther)	Characterization of Odorant-Induced CREB Activation	Dr. Gabriele Ronnett
Kiviat, Barbara	Suburb Without a City: Salisbury, Maryland as a Case Study of Changing Rural America	Dr. Tristan Davies
Klang, Kendra	A Search for KIT and FMS Receptor-Activating Mutations in AML	Dr. Donald Small
Krauland, Eric	Cationic Microparticles for Pulmonary DNA Delivery	Dr. Justin Hanes
Kuo, Jennifer	Suppression of Sp1 Regulated Tumor Growth in Mice	Dr. Ru Chih Huang
Lau, Yvonne (Yi-Yang)	Tissue Engineering - Development of a Human Tracheal Bioprosthesis	Dr. Kam Leong
Lee, Brenda	Reasons for the Effects of the C-Terminal Half of LAP2B on Chromosomes during Nuclear Assembly	Dr. Kathy Wilson
Lee, Nahyoung	Glutamine Transporter and Glutamate Neurotransmission	Dr. Jeffrey Rothstein
Lim, Christian	A Functional Study of Seizure Cessation by Electrical Stimulation in a Model of Human Epilepsy	Dr. Marek Mirski
Ling, Morris	RNA Replicons as Vaccines for HPV - Associated Cancer	Dr. T.C. Wu
Milton, Martha	Carl Ludwig and the Laboratory Revolution of Medicine, Science, Technology and Experimentation	Dr. Daniel Todes
Mirzadeh, Zaman	Melatonin-GABA Interactions and the Seasonal Regulation of Neuroplasticity in Songbirds	Dr. Greg Ball

Overstreet, Michael	Effect of Growth and Differentiation Factors on Human Chondrocytes Propagated in Three-Dimensional Scaffolds	Dr. Carmelita Frondoza
Pantalena-Filho, Luiz Carlos	In Vivo Observation of MyoD Activity Using GFP and YFP Fusion Proteins in <i>C. Elegans</i>	Dr. Andrew Fire
Park, Susan	Achondroplastic Population and Quality of life	Dr. Ben Carson
Pormebka, Matthew	The Rational Design of Novel Benzoyl and Cinnamoyl Based Photochemical Precursors to Nitric Oxide	Dr. John Toscano
Rahman, Amit	In Vov Strain Hardening of Actin Cytoskeleton - A Novel Mechanical Signal	Dr. Denis Wirtz
Ro, Angela	Microbicidal Gels for Protection Against STDs/ AIDS: Developing Methods to Achieve Complete Coverage of Susceptible Epithelial Surfaces	Dr. Richard Cone
Sathaye, Alok	Using Finite Element Modeling to Investigate Spatial Electrophysiological Phenomena in Cell Culture Monolayers	Dr. Leslie Tung
Shafland, Heidi	Context of Care for the Low Income Hispanic Population in Baltimore	Dr. June Miller
Shaw, Caroline	Bringing Local Concerns to the National Agenda: Manchester and Parliamentary Reform	Dr. Judith Walkowitz
Sherman, Nicole	Molecular Regulation of the Development of Fertilization Competence of Sperm	Dr. Janice Evans
Silverman, Benjamin	Poiont-of-Care Testing for Renal Transplant Rejection	Dr. James Nichols
Simoni, Alicia	A Study of Homelessness, Motherhood and Womanhood in Baltimore	Felicity Northcott
Siraj, Pasha	Clausal Structure and Null elements in Singaporean English	Dr. Geraldine Legendre
Suleman, Samia	Comparison of Dexamethason and a Novel COX II Inhibitor on Survival in Rats Bearing a 9L Glioma	Dr. Stuart Grossman
Udoff, Brian	Work in Progress - A Short Film	Dr. Stephen Dixon
Waldron, Sean	Advancement in the Intermolecular Imino Ene Reaction	Dr. Thomas Lectka
Wang, Eugene	Detection of Brain Tumor DNA in Serum and Cerebrospinal Fluid (CSF)	Dr. Ben Carson
Wilson, Eric	An Evaluation of Residence Time Distribution as a Function of Time and Position	Dr. William Ball
Wood, Lisa	The Impact of Lead Exposure on the Livers of Young (age 1-6 years) East Baltimore Children	Dr. Marion D'Lugoff

AY 1998-99 PURA Awardees

Awardee	Proposal Title	Mentor
Chaney, Charles	Studies on the Effect of Fluoride-Treated Bovine Bone-Derived Materials on Human Osteoblasts	Dr. Carmelita Frondoza
Aakalu, Victor Kumar	How Does Shank's Ank Anchor Shank?"	Dr. Paul Worley
Burwick, Richard	Analysis of RCN2, a Regulator of Calcineurin-dependent Gene Expression	Dr. Kyle Cunningham
Chang, Steven	Determination of the Proteins Involved in the Early Steps in Phytanic Acid Alpha-oxidation	Dr. Stephanie Mihalik
Chen, Audrey Isabel	Explorations of the Abdomen and Thorax	Dr. Phyllis Bryn-Julson
Danagouliau, Shooshan	Economic Policy Convergence Among Contemporary French Political Parties	Dr. Wilda Anderson
Davoodnia, Rozalin	Disease Maintenance Across Cultures"	Dr. Katrina McDonald
Desai, Seema	The Role of Gdr8 in the Radioactive Resistance of D.radiodurans	Dr. M. J. Bessman
Dorsi, Michael	The Effects of Chronic Dorsal Rhizotomy on the L5 Ligature-and-Cut Model of Mechanical Allodynia in the Rat	Dr. Allan Belzberg
Franco, Jamie	Levina Teerline and 16th Century English Portrait Miniatures	Mark Blyth
Friedenthal, Sarah	Homeless Women's Health Care	Dr. Sara Berry
Hudgins, Jean	Avant Garde Musical Techniques and the Saxophone	Gary Louie
Jamal, Joseph	Identification of Oculodentodigital Dysplasia Gene: A Lesson in the Positional cloning Approach	Dr. Ethylin Wang Jabs
Janson, Jeffrey	Chondrocyte Seeded Chitosan Scaffolds for Cartilage Repair	Dr. Carmelita Frondoza
Jenkins, Joseph	Mechanical and Propulsion Systems for Autonomous Underwater Vehicle	Dr. Louis Whitcomb
Johnson III, Owen	The Effects of Extracellular pH on the Intracellular pH of Human Leukocytes and Preventing Sexual Transmission of HIV	Dr. Richard Cone
Jung, Albert	Alpha 1B adrenergic receptor and Orthostatic Intolerance	Dr. Artin Shoukas
Karaelias, Lucas	Effects of Norepinephrine on Synaptic Plasticity	Dr. Alfredo Kirkwood
Kim, Ruby (Eunbyeong)	Mapping the Interaction Region of Notch 1 and L119	Dr. Paul Worley
Kumar, Kanupriya	A Comparison of Western-Trained (Allopathic) and Ayurvedic Doctors With Regards to Depression in Urban India	Dr. Sara Berry
Leung, Wah (Steve)	Organic Solutes Cure Cystic Fibrosis Defect	Dr. Sandra Guggino
Malhostra, Amit & Schmidt, Michelle	Significance of Cyclis Response Element Binding Protein and the Subsequent Gene Expression on the Ischemic Apoptotic Pathway	Dr. Nitish Thakor
Mostaghimi, Arash	CCG Repeat Expansions in Psychiatric Diseases	Dr. Russell Margolis
Mullaney, Thomas Shawn	Tiananmen Square and the Three Days of Freedom	Dr. William Rowe

Obstfeld, Joshua	Democratic Peace in Russia? What Anti-Semitism Can Tell Us	Dr. Steven David
Pham, Michael (Mihn)	Biodistribution of IgA and IgG Monoclonal Antibody Types	Dr. Richard Cone
Prendiville, Terry	Cognitive Functioning and Cerebral Laterlization in Gender Dysphoric Men Undergoing Hormone Therapy	Dr. Adrian Dobs
Ray, Darwin	Perspectives on Parental Presence During Treatment of Pediatric Patients in the Emergency Department Trauma Bay	Dr. Linda Lewanowski
Reddy, Sashank	Pleasure and Value in Hellenistic Ethics	Dr. Richard Bett
Shah, Pia	Grassroots Healthcare and Feminism, Kutch, India	Dr. Siba Grovogui
Sherali, Azeem	Na Independent Nucleoside Transporters: Identification of Substrate Recognition Site(s) by Chimera Studies	Dr. Ming Tse
Siegel, Adam	Stranded Cost in Electricity Deregulation: An Assessment and Comparison of Public Utility Commission Decisions in Selected Styles and the Impact on Post-Regulation Rates	Dr. Joseph Harrington
Silva, Jonathan	Experimentally-based Computational Model for Neonatal Cardiac Rat Cells	Dr. Leslie Tung
Steece, Katharine	Biochemical and InVivo Characterization of Carboxy-Terminal Clathrin Binding Domain	Dr. Beverly Wendland
Stripling, Phillip	Research on Non-western Rhythms and Musical Combinations of Non-western and Western Rhythms	Dr. Susan Weiss
Surcel, Alexandra	Characterization of Histidine Rich Proteins in Plasmodium Falcipareum and their Role in Hemozoin Formation	Dr. David Sullivan
Thevarajah, Sarmela	The Role of Contemporary Bharatha Natyam on the Formation and Expression of Identity in Sri Lanka	Dr. Gyanendra Pandey
Truong, Thach-Giao	Pho Bo as Symbol: Beef Noodle Soup and the People of Vietnam	Dr. Sonia Ryang
Wang, George	Understanding the Specificity of Protein-Ligand Interactions as seen in Sperm Whales Myoglobin	Dr. Doug Barrick