

AY 2024 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Janelle Bellot	2024	KSAS	Fly-FUCCI in the Drosophila Testis Niche: Investigating the correlation between the cell cycle phase of GSCs and their survival	Erika Matunis	SoM
Nadav Benhamou Goldfajn	2024	KSAS	Constructing the interactome of membraneless organelles in live cells	Danfeng Cai	BSPH
Ojas Chahal	2025	WSE	Multimodal Deep Learning for Predicting Acute, New-Onset Heart Failure in COVID-19 Patients	Natalia Trayanova, Minglang Yin	WSE
Xinyi "Cindy" Chen	2026	KSAS	Optimization of ActuAtoR as a Molecular Tool to Explore the Physiological Roles of FUS Condensates in Cell Pathology of ALS	Takanari Inoue, Saki Takayanagi	SoM
Aidan Deighan	2024	PI	Artistic Performance Project "Making It Click"	Michael Hersch	PI
Brandon Feole	2024	KSAS	Evaluating the Impact of Particle Size and Community Composition on Nitrate Respiration in Anoxic Microenvironments	Sarah Preheim, Steven Wilbert	WSE
Ryan Freund	2025	KSAS	Investigating the role of Notch signaling in retinal ganglion cell development	Robert Johnson, Brian Guy	KSAS
Vanessa Han	2026	KSAS	The Structural Undercurrents of Korean and Black Relations in Baltimore	H. Yumi Kim	KSAS
Alejandra Lamoso Munoz	2025	KSAS	The different asthma rates between different Caribbean islands in comparison to Puerto Rico (group project)	Louis Fazen	BSPH
Chloe Liang	2025	KSAS	Single-molecule cell cycle and RNA polymerase II phosphorylation tracking with SCRIIPT for targeted drug screening in living cells	Yick Hin Ling	KSAS
Yunhan Liao	2025	WSE	Modelling Intimal Hyperplasia and Its Mitigation Using Tissue-Engineered Microvessels	Peter Searson, Lily Liang	WSE, SoM
Sophia Lin	2023	KSAS	"Red Prior" Short Film	Meredith Ward	KSAS
Sim Hao Low	2024	KSAS	The Island of No Return: The Cullion Leper Colony as the Intersection of Public Health and Colonialism	Quinn Lester	GWU
Fanuel Mammo	2024	WSE	Optimization of Catalyst Degradation and Delamination for Use in Roll-to-Roll Manufacturing of Graphene	Thomas Kempa	KSAS
Arjun Modi	2025	KSAS	Investigating a Dual-Targeting CD123 & CLL1 CAR-NK Cell Therapy for Acute Myeloid Leukemia	Challice Bonifant	SoM
Ashish Nalla	2025	WSE	Plant Uptake of Nonylphenol Ethoxylates (NPEs) and Linear Alkyl Benzylated Sulfonates (LABS) Associated with Land-Applied Biosolids: Developing a Health Ecology Risk Assessment Framework	Carsten Prasse, Dominic Sanchez	WSE
Annie Pan	2026	WSE	The different asthma rates between different Caribbean islands in comparison to Puerto Rico (group project)	Louis Fazen	BSPH
Natasha Porwal	2025	WSE	Rejuvenation of Silicon Probes in Acute Electrophysiology	Reza Shadmehr, Alden Naeem	SoM

Sneha Raj	2025	WSE	Mechanical Property Characterization of WE43 and ZX10 Magnesium Alloys for 3D Braided Cable Fabrication in Sternal Closure Applications	Tim Weihs, Beril Ulugun	WSE
Sofia Rest	2025	WSE	Production planning of allomorphs in nonword inflection	Colin Wilson, Jane Li	KSAS
Ethan Sherman	2026	KSAS	Using a CRISPR writer/eraser system to modulate DNA methylation on the Cadherin-1 gene	Ramana Sidhaye, Bonnie Yeung-Luk	SoM, BSPH
Selena Shirkin	2024	WSE	Determining the Tearing Properties of the Amniotic Membrane to Drive Novel Port System Innovation in Fetal Therapy	Ahmet Baschat	SoM
Shrutina Shrestha	2024	KSAS	Virtual Reality Assessment of Binocular Alignment in Acute Vestibular Schwannoma Resection as a Spaceflight Analog	Michael Schubert	SoM
Huan Ying "Joy" Yeh	2024	WSE	Exploring the effects of luminance on active sensing and locomotion strategies in glass knifefish	Noah Cowan, Yu Yang	WSE
Kunye "Lucy" Zhao	2025	KSAS	Exploring Appearance Investment in Individuals with Eating Disorders	Colleen Schreyer	SoM
Joanna Zhou	2024	KSAS	Do Violations of Social Expectations Shape Infants' Learning?	Lisa Feigenson, Qiong Cao	KSAS

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Rebekah Berhane	2023	KSAS	Impact of Ribosomal Collisions and Ribosomal Protein L9 on mRNA Frameshifting	Annabelle Campbell, Allen Buskirk	SoM
Chun Hei "Ryan" Chan	2023	WSE	Transient Reprogramming Promotes Rejuvenation of Murine Bone Forming Stromal Cells	Ray Cheng, Patrick Cahan	SoM
Austin Chen	2025	KSAS	Investigating Human Perivascular Stem Cell Diversity for Improved Skeletal Tissue Regeneration	Mario Gomez Salazar, Aaron James	SoM
Ching Hei "Julian" Chow	2025	WSE	Investigating the electrophysiological effects of TRPC6 inhibition on dystrophic engineered heart tissue constructs	Joe Criscione, Deok-Ho Kim	SoM
Cierra Gladden	2024	KSAS	Sundown	Meredith Ward	KSAS
Jeewon Han	2023	KSAS	Writing for K-Pop: K-Pop's Challenge to Cultural Imperialism	Erin Chung	KSAS
Jan Haro	2025	KSAS	Mitigating Oxidative Damage in Single-Molecule Optical Tweezers Experiments	Christian Kaiser, Xiuqi Chen	KSAS
Elizabeth "Izze" Hedrick	2023	WSE	Examining Vacancy Defects in CeO(2-x) for Tunable Optical and Electromagnetic Applications in Cryogenic Quantum Computing	Tyrel McQueen	KSAS
Hyeunjeong "Christina" Im	2024	KSAS	Exploring How Cells Randomly Choose Between Fates in the Fly Eye	Robert Johnston, Alison Ordway	KSAS
Audrey Lacy	2025	WSE	Investigating the Impact of High-Resolution MRI for Determining Ventricular Ablation Targets using Personalized Virtual Hearts	Ryan O'Hara, Natalia Trayanova	WSE
Bum Seok "Sean" Lee	2025	KSAS	Elucidating the genetic basis for O-acetylation of colonic mucins using a genetically engineered organoid model	Ken Kinzler	SoM
Yi Hong "Alice" Liu	2024	KSAS	Investigating how the 3'UTR affects mRNA translation status and localization to germ granules in C. elegans using nos-2 as a model transcript	Geraldine Seydoux, Alyshia Scholl	SoM
Alyssa "Ali" Luchs	2023	KSAS	Advancing knowledge of invasive species using community science	Katalin Szlavecz, Ian Yesilonis	KSAS
Julian Madrigal (joint)	2024	KSAS	Investigating Instagram Following as a Representation of Online Reciprocity and its Effect on Attraction	Jeffrey Bowen	KSAS
Nainika Pansari (joint)	2023	KSAS	Investigating Instagram Following as a Representation of Online Reciprocity and its Effect on Attraction	Jeffrey Bowen	KSAS
Het Patel	2025	WSE	Characterization of sensory processing pathway in SYNGAP-1: impaired auditory gating and pre-pulse inhibition in pre-clinical/rodent model.	Constance Smith-Hicks	SoM/ KKI
Panwa Promtep	2025	WSE	Investigating gene expression differences due to long-term adaptation to high bicarbonate concentrations in Methylobacterium alcaliphilum	Michael Betenbaugh, Kent Rapp	WSE
Cecilia "Cece" Ramirez	2023	KSAS	Developing an In Vitro Translation System for Zebrafish	Kamena Kostova	CIW

Ana Rosu	2023	WSE	Enhancing imaging and therapeutic potential of iron oxide nanoflowers using MSCs as smart carriers	Jeff Bulte	SoM
Krishna Sargur	2024	WSE	3D Model of Occluded Flow in the Blood Brain Barrier using Microfluidic Devices and Micro-PIV	Lily Liang, Peter Searson	SoM, WSE
Louis "Carter" Swaby	2023	WSE	Modulating the phosphorylation status of Cofilin-1 to examine epithelial integrity in the COPD airway	Ramana Sidhaye	SoM
Ethan Wang	2024	KSAS	Hearing Loss and Dementia in India	Jennifer Deal	BSPH
Gavin Wang	2026	KSAS	Constraints on Transit Depth Variations of Known Exoplanets with TESS	Néstor Espinoza	KSAS
Ashley Zelaya	2023	KSAS	Characterizing Long COVID-Related Fatigue in People living with HIV compared to HIV-Seronegative People	Annie Antar	SoM
Sophia Zhai	2024	WSE	Virtual Stimulation of Interictal Stereo-EEG to Localize the Epileptogenic Zone	Sri Sarma, Rachel Smith	WSE, SoM
Bohan Zhang	2023	KSAS	Effects of Aging and Noise-Induced Hearing Loss on the Auditory Brainstem	Amanda Lauer	SoM

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Gohta Aihara	2023	WSE	Investigating the Role of Yes-Associated Protein in CD4+ T Cell Cytotoxicity	Jonathan Schneck, Ariel Isser	SoM
Emma "Em" Ambrosius	2024	WSE/ KSAS	Ring-Opening Metathesis Polymerization with Hybrid Silicon and Carbon Analogs of Cyclooctene	Rebekka Klausen, Sophie Melvin	KSAS
Julia An	2023	KSAS	Improving Management of Non-Small Cell Lung Cancer by Developing a Pooled Peptide Vaccination to Deploy with Epigenetic-Immunotherapy	Stephen Baylin	SoM
Harshit "Harsh" Bhasin	2022	KSAS	Assessing efficacy of Mitochondrial fission inhibitor Mdivi-1 as a therapeutic agent for Anorexia Nervosa in the Activity-Based Anorexia Model	Matthew Hurley	SoM
Stephanie "Steph" Brown	2023	WSE	Investigation of the leaching behavior of chemical additives from plastic water bottles under natural weathering conditions	Carston Prasse	WSE
Jeffrey Chen	2023	WSE	Reduced PDMS drug absorption and sustained drug delivery for human iPSC-based cardiac microphysiological systems	Deok-So Kim, Devin Mair	SoM
Haruna Chojilsuren	2023	KSAS	Substrate specificity and role of detoxifying endogenous aldehydes of ALDH9A1 in Fanconi Anemia	Moonjung Jung	SoM
Charlotte Davison	2022	WSE	Development of a 3D Corneal Cell Culture Model for the in-vitro Characterization and Screening of Gel-Forming Eye Drops	Laura Ensign, Henry Hsueh	SoM, WSE
Kylie Fuller	2023	KSAS	The Effect of Norm and Construal Activation on Instagram Users' Pro-Environmental Behavior	Jeffrey Bowen	KSAS
Aayush Gandhi	2023	WSE	Development and characterization of new methods for reproducible manufacture of ultra-thin, high strength antibiotic-eluting sutures	Kunal Parikh	SoM
Paul Gensbigler	2024	KSAS	What Do Genomics and Rate Measurements Tell Us About Nitrogen Cycling in the Chesapeake Bay	Anand Gnanadesikan, Sarah Preheim	KSAS, WSE
Mia Grahn	2023	WSE	Three-dimensional assessment of structural changes to the pancreas with onset of Type 1 diabetes	Ashley Kieman, Denis Wirtz	WSE
Priyanka Hanumaihgari	2023	KSAS	Understanding the Role of ADRA1A in Oligodendrogenesis	Tsai-Yi Lu, Dwight Bergles	SoM
Rina Helt	2023	KSAS	Defining the Dynamics of Transcriptional Bursting in a Developing Tissue	Robert Johnston, Elizabeth Urban	KSAS
Joyce Ker	2023	KSAS	"Dear Cancer"	Dora Malech, David Yezzi	KSAS
Isabelle Koh	2022	KSAS	"I Will Enjoy This Food!"	Meredith Ward	KSAS
Katarina Leskovar	2022	KSAS	JHU Human Trafficking Behavioral Research	Bill Smedick	WSE
Hantian "Maggie" Li	2023	KSAS	The Role of C-terminal Domain Cooperativity and Mobility in RNA Chaperone Hfq Binding Activity	Sarah Woodson, Ana Damjanovic	KSAS
Rachel Li	2023	WSE	Developing a Physiologically Relevant Coculture Model of Fibroblasts and Keratinocytes to Study Skin Wound Healing	Matthew Pittman, Yun Chen	WSE

Yeongseo Lim	2024	KSAS	Development of Deep Learning Model to Detect Breast Cancer Cell Nuclei in Brightfield Images	Pei-Hsun Wu	WSE
Rongrong Liu	2023	WSE/ KSAS	Developing an Automated Algorithm to Solve the Pentagon and Hexagon Polynomial Equations in Topological Quantum Computing	Yi Li	KSAS
Adam Luo	2024	KSAS	Dissecting the spatio-molecular landscape of glioblastoma multiforme via spatially resolved transcriptomics and proteomics	Eugene Shenderov	SoM
Lucas Mandacaru Guerra	2024	KSAS	Shining light on the Higgs: Study of the Higgs boson couplings to photons at the Large Hadron Collider	Andrei Gritsan	KSAS
Yuncong "Toby" Mao	2024	KSAS/ WSE	Predicting Stroke Risk Among Atrial Fibrillation Patients Using Machine Learning Algorithms	Nikhil Paliwal, Natalia Trayanova	WSE
Shirley Marino Lee	2022	KSAS	Social Communication Call Processing in the Big Brown Bat	Angeles Salles, Cynthia Moss	KSAS
Samuel "Sam" Martin	2023	KSAS	Neural mechanisms underlying stimulus selection in complex scenes	Shreesh Mysore	KSAS
Shafkat Meraj	2023	KSAS	Scoping Review: Investigating the Political & Bureaucratic Factors Shaping Children’s Care in LMICs	Yusra Shawar, Jeremy Shiffman	BSPH
Amy Mistri	2023	KSAS	Evaluating the role of neuregulin-1 Type III in motor axon development in SMA mice	Lingling Kong	SoM
Megan Pedicini	2023	KSAS	A translational model to explore effects of psilocybin on stress resilience	Zachary Cordner	SoM
Ranjani Ramasubramanian	2022	WSE	Engineering a Bispecific Fusion Protein to Block Ocular Neovascularization	Jamie Spangler, Jeff Gray	WSE
Elizabeth "Ellie" Rha	2022	KSAS	“잘 먹겠습니다! (I Will Enjoy This Food!)” Short Film	Meredith Ward	KSAS
Sanchit Sanyal	2024	KSAS	Defining the role of HOXC8 in metastasis and castration resistance of prostate cancer	Shawn Lupold	SoM
Naeem Sbaiti	2024	KSAS	Brain-derived neurotrophic factor (BDNF) regulates corticosteroids and catecholamine production from the adrenal gland: implications for the treatment of hypertension and behavioral disorders	Naz Paolocci, Jacopo Agrimi	SoM
Tanishk Sinha	2024	WSE	Brain-derived neurotrophic factor (BDNF) regulates corticosteroids and catecholamine production from the adrenal gland: implications for the treatment of hypertension and behavioral disorders	Warren Grayson, Allison Horenberg	SoM
Shreya Sriramineni	2024	KSAS	Computationally modeling the edge evolution of 2D transition metal dichalcogenide nanocrystals	Thomas Kempa, Reynolds Dziobek-Garrett	KSAS
Hanna Suh	2022	KSAS	Investigating the efficiency, kinetics, and versatility of the FKBP, AID, and ec-DHFR Degron Systems	Kamena Kostova	CIW
Claire Tan	2022	KSAS	Constructing an Arrayed Legionella pneumophila Mutant Library to Elucidate the Role of Secreted Virulence Factors	Tamara O'Connor	SoM
Amy Van Ee	2022	WSE	Identification and Quantification of Extracellular J2 Staining against dsRNA in Keratinocyte Culture	Luis Garza, Yingchao Xue	SoM

Kesavan Venkatesh	2024	WSE	Evaluating the clinic readiness of diagnostic deep learning models for chest x-rays via computational 'stress tests'	Jeremias Sulam, Paul Yi	WSE
Shubha Verma	2023	KSAS	Investigating the role of Didum in the Drosophila Clock Network	Matt Brown	SoM
Narayani Wagle	2022	WSE/ KSAS	Automated Detection of Nystagmus Using Deep Learning	Kemar Green	SoM
Darren Yang	2023	WSE	A Cloud-Based Mini-Microscopy System for Collaborative Neuroscience	Arvind Pathak	SoM
Jason Yin	2022	WSE	Rheology of a Nanofiber-Hydrogel Composite with Stem Cell Delivery for Adipose Tissue Remodeling	Zhucheng Yao, Hai-Quan Mao	WSE
Jerry Zhang	2022	WSE	Non-invasive, Continuous Cardiac Output Monitoring in Neonates and Infants with Congenital Heart Disease	Danielle Gottlieb-Sen, Julie Shade	SoM
Xin "Jason" Zhang	2023	WSE	Synthesis and Characterization of Mn1-xFexP Single Crystals for Spintronic Applications	Tanya Berry, Tyrel McQueen	KSAS
Yuekang Zhang	2022	KSAS	Characterizing conformational change of Nav1.5/1.4 bound Calmodulin with molecular dynamics	Sandra Gabelli, Mayukh Chakrabarti	SoM

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Tayoshe "Simi" Aluko	2021	WSE	Designing Modular Housing Structures using Foam Concrete	Rachel Sangree	WSE
Harshit Bhasin	2022	KSAS	Assessing mitochondrial dysfunction in ABA rats and the efficacy of antioxidant supplement N-Acetyl Cysteine (NAC) as a therapeutic agent.	Tim Moran, Kellie Tamashiro	SoM
Carlos Buri-Nagua	2022	KSAS	The Recruitment and Retention of a Minority Population in a Pragmatic Cluster Randomized Trial: The RICH LIFE Project	Mariana Lazo, Lisa Cooper	SoM
Chelsey Chen	2022	KSAS	The role of NARF in breast cancer stem cell enrichment and tumor metastasis	Yongkang Yang, Gregg Semenza	SoM
Tongtong Chen	2022	KSAS	Typifying the Iteration Problem: Constructing and Generalizing the Functional Square Root of $\sin(x)$ on $[0, \pi/2]$	Ed Schneinerman	WSE
Eun Tack Cho	2022	KSAS	Modeling Goal-Directed Spatial Navigation in Mammals Using Deep Reinforcement Learning	Kanghoon Jung, Hyungbae Kwon	SoM
Sakshi Chopra	2022	KSAS	Burden with Portable Oxygen Management in Oxygen Therapy	Jonathan Smith, Jessica Dakkak	WSE
Hayden Dux	2021	KSAS	Health care disparities in neurosurgery: Socioeconomic barriers to health in the time of COVID-19	Raj Mukherjee	SoM
Bruce Enzmann	2022	WSE	Biodegradable Nanofiber Conical Conduits for Targeted Muscle Reinnervation	Hai-Quan Mao	WSE
Vivek Gopalakrishnan	2021	WSE	Brain Tumor Segmentation using Multimodal Manifold Oblique Random Forest	Jojo Vogelstein	WSE
Hyo Jin Ha	2021	KSAS	Room 408	John Mann	KSAS
Daniel Habib	2022	KSAS	Peer Influence on Vaping in High Schools	Andrew Cherlin	KSAS
Ju Seong "John" Han	2022	WSE	Laser speckle contrast imaging to improve the detection of precancerous lesions in routine colonoscopy	Nicholas Durr	WSE
Quinn Hauck	2023	WSE	Uncovering the Basis of Extreme Physical Capabilities: Quantifying and Applying the Transcriptome of the Ruby-Throated Hummingbird Using Synthetic RNA	Winston Timp	WSE
Autumn Hughes	2022	WSE	Developing an Interface to Investigate the Transferability of Inanimate Training on da Vinci Surgical Systems to Operating Room Performance	Jeremy Brown	WSE
Rumani Kafle	2023	WSE	Usability of Direct-to-Consumer Hearing Solutions among Older Adults with Dementia	Carrie Nieman	SoM
Sandeep Kambhampati	2021	WSE	Characterizing the Effect of Chromatin Organization on DNA Methylation Patterns Using Stochastic Modeling	Andy Feinberg, Abante Llenas	SoM and WSE
Ye Rin Kim	2022	WSE	Investigating a New Method of Detecting and Preserving Damaged Collagen in Artificially Aged Parchment Using Collagen Hybridizing Peptide	Patty McGuiggan	WSE

Michael Lan	2021	WSE	Design of a Face Mask Filter to Combat the SARS-CoV-2 Pandemic and Other Droplet and Airborne Diseases	Hai-Quan Mao	WSE
Simon Liu	2021	WSE	Implementing Electronic Beam Steering in an Implantable Ultrasound Device	Chad Gordon	SoM
Carol Lu	2022	KSAS	Intuitive theories of "visual" search in congenitally blind individuals through the creation of visual search displays	Marina Bedny	KSAS
Elizabeth Mensah	2022	KSAS	Free Energy of Defect Formation in Membranes by Antimicrobial Peptides	Ana Damjanovic	KSAS
Jody Mou	2021	WSE	Deep Learning Guided Design of Peptide Binders	Jamie Spangler, Tim Lu and MIT	WSE
Annabel Mungan	2021	WSE	Determining the Chemical Fingerprint of Wastewater During the COVID-19 Pandemic	Veronica Wallace, Carsten Prasse	WSE
Manasi Nawathe	2022	WSE	The Effect of Simvastatin on the Stiffness of Uterine Fibroids	Vicky Nguyen	WSE
Adhith Palla	2022	KSAS	No Stone Unturned—Mapping the Subcortical Projections of the Claustrum	Solange Brown	SoM
Trisha Parayil	2021	KSAS	Quantifying the impact of nusinersen treatment on the development and degeneration of motor neurons in patients with spinal muscular atrophy	Charlotte Sumner	SoM
Chloe Paris	2022	WSE	Developing Personalized Mechanistic Computational Models of Menstrual Cycle Hormones	Feilim MacGabhann	WSE
Jonathan Perez	2022	KSAS	On the role of Fc receptors in the anterior pituitary gland: potential implications for patients treated with immune checkpoint inhibitors	Patrizio Caturegli	SoM
Aaditya Rau	2022	WSE	Atomistic Simulations of Dislocation Mechanisms in Nanotwinned Ni-Mo-W Alloys	Kevin Hemker	WSE
Shreya Wadhwa	2023	WSE	Little boxes on a hillside: Investigating the flexibility of high-level categorization to changes in natural visual statistics	Michael Bonner, Alon Hafri	KSAS
Yinuo "Roma" Wang	2022	WSE	The Moderating Effect of Peer Gender Composition on How Personality Traits Affect Academic Performance	Yujung Hwang	KSAS
Richard Xu	2021	WSE	Integration of Genome and Epigenome to Elucidate Gene-Environment Interactions	Hongkai Ji	BSPH
Wingel Xue	2022	KSAS	COVID-19 and Race: Emerging Diseases as a Tool of Social Control	Alexandre White	KSAS
Yoko Yamashita	2022	KSAS	Investigating the Neuroprotective Potential of K0706 Treatment in Parkinson's Disease Using Mouse Models Injected with Alpha-Synuclein Preformed Fibrils	Senthil Karuppagounder	SoM
Rebecca Yu	2022	WSE	Neural Network for Bi-Atrial Segmentation of Clinical Cardiac Images of Patients with Atrial Fibrillation	Rheeda Ali, Natalia Trayanova	WSE
Amanda Yuen	2022	KSAS	Understanding Refugee Resettlement from the Perspective of United States Resettlement Agencies and Non-Profit Organizations	Naveeda Khan	KSAS

Josephine "Jojo" Zhang	2022	KSAS	Developing Bispecific Antibodies to Induce Cytotoxic T Cells Against Mycobacterium tuberculosis in Tuberculosis/HIV Co-infection	Robert Siliciano	SoM
Junjia Zhang	2022	KSAS	Josephson Effect of Monopole Superconductors in a Doped Weyl Semimetal	Yi Li	KSAS
Wenyan "Lucy" Zhang	2022	KSAS	Continuous blood oxygen saturation and heart rate monitoring for post-operative single ventricle congenital heart disease infants.	Geraldine Seydoux	SoM

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Kowsar Ahmed	2020	KSAS	Using FMRI KO Mice as a Model For Post-transcriptional Gene Regulation in Features of Autism	Mollie Meffert	SoM
Daniela Barata	2021	KSAS	Molecular mechanism of oxidative activation of CaMKII	Qinchuan Wang	SoM
Dante Basile	2022	WSE	Simulation Guidance of Ablation Therapy for Persistent Atrial Fibrillation	Rheeda Ali	WSE
Vedant Chandra	2021	KSAS	Characterizing White Dwarf Stars with Spectroscopy and Machine Learning	Nadia Zakamska	KSAS
Liam Cheng	2021	KSAS	Arteriolar Abnormalities in the Progression of Huntington's Disease	Wenzhen Duan	SoM
Raphael "Raphi" Chernoff	2022	WSE	Improving Synaptic Connection in Retinal Organoid Transplants	Robert Johnston	KSAS
Jae Choi	2021	KSAS	Investigating the neural substrates of cost-benefit choice behaviors using an intertemporal discounting paradigm in rats	Yifeng Cheng	KSAS
Julie Costacurta	2020	WSE	Restoring Tactile Feedback in Human-Prosthetic Systems Using Optimal Feedback Control Theory	Sri Sarma	WSE
Asim Dhungana	2021	KSAS	Characterization of high sequence-identity, fold-switching proteins by single-molecule force spectroscopy	Vincent Hilser	KSAS
Rasadokht "Rasa" Forati	2021	KSAS	Experimental Therapeutics for Depression-like Behavior of the Ankyrin-G Conditional Knockout Mouse Model of Bipolar Disorder	Christopher Ross	SoM
Jason Guo	2021	KSAS	Developing a Universal Transient Delivery System for CRISPR-Cas9 Gene Editing	Renjun Zhu	SoM
Coleman Haley	2020	WSE	Word, Words, Worded: Using Neural Networks to Understand How We Learn to Use Words	Colin Wilson	KSAS
Subin Han	2021	KSAS	What is the 'shape' in shape bias?	Chaz Firestone	KSAS
Vanayak "Vinu" Harihar	2022	KSAS	Investigating the Dependence of Local DNA Flexibility on Cas9 Binding	TJ Ha	SoM
Kirby Leo	2020	WSE	Melanin Binding - Cell Penetrating Peptides for Ocular Drug Delivery	Laura Ensign-Hodges	SoM
Keva Li	2019	KSAS	Extracellular Fluid Viscosity Enhances Cell Motility and Invasion	Yun Chen	WSE
Carolyn Marar	2020	WSE	Effects of the Tissue Microenvironment on the Spread of Cancer Through Extracellular Vesicles	Denis Wirtz	WSE
Tarek Meah	2020	KSAS	Constructing an Eco-Village in the Charm City: Lessons from South London	Erica Schoenberger	WSE
Eden Metzger	2020	KSAS	Finstas, Friendships, and Feelings: The longitudinal effects of secondary Instagram accounts on social relationships, self-esteem, and need fulfillment	Jeffrey Bowen	KSAS
Gavin Mischler	2020	WSE	SpikeFRinder: A finite rate of innovation approach to spike inference	Benjamin Bejar Haro	WSE
Melody Multra	2022	WSE	Chemical transformations in sustainable agricultural systems: Investigations using high-resolution mass spectrometry	Chris Brueck	WSE

Elizaveta "Liza" Naydanova	2022	WSE	Objective Intraoperative Evaluation of Motor symptoms in Parkinson's Disease Using a Dual System of LEAP Motion Sensors	Yousef Salimpour	SoM
Kisha Patel	2020	WSE	Tumor-Derived Antigen-Presenting Cells as a Novel Immunotherapy Treatment Against Melanoma	Jordan Green	SoM
Pavan Patel	2020	KSAS	Are centralized, long-term outpatient mental health care services at higher education institutions more cost-efficient and effective than outsourcing?	Kevin Frick	CBS
Luyi Peng	2020	KSAS	Immune Checkpoint Inhibition for Cancer in Fanconi Anemia Patients	Bonnie Lau	SoM
Evan Petrosky	2021	KSAS	Evolution of Short-Period Binary Stars	Nadia Zakamska	KSAS
Jakob Pollack	2021	KSAS	Sugar	Meredith Ward	KSAS
Evan Qu	2020	KSAS	Investigating sRNA-mediated Interactions Between Extremophilic Microorganisms Using a Co-culture Approach	Jocelyn DiRuggiero	KSAS
Pranav Reddy	2021	WSE	Single Molecule Studies of Repeat Associated Non-AUG Translation in Huntington's Disease	Bin Wu	SoM
Yasmine Tabdilli	2020	KSAS	Bispecific antibodies towards "shock and kill" strategies for HIV-1 cure	Srona Sengupta	SoM
Amith Umesh, Rohan Mangal, Varun Mahadevan	2020, 2021, 2020	KSAS	A Novel Implementation of Metabolomic Parameters in Linear Programming for the Development of Low-Cost Energy Dense Foods for Severely Malnourished Children in India (<i>Group Project</i>)	Keith West	BSPH
Aaron Wang	2021	KSAS	Cholinergic Architecture and Dynamics During the Acquisition of Knowledge in Sensorimotor Learning	Kishore Kuchibhotla	SoM
Joyce Wang	2022	KSAS	Assessing the Neuroprotective Effects of Various Small Molecules Against the Apoptosis of Retinal Ganglion Cells	Robert Johnston	KSAS
Maggie Wang	2021	WSE	High Resolution Thickness Maps of the Hippocampus	Michael Miller	WSE
Katherine Xiang	2020	KSAS	Camera Obscura Art Installation	David Nataf	KSAS
Alice Xie	2022	KSAS	On the role of necroptosis, a form of cell death, in the pathogenesis of autoimmune hypophysitis	Mario Caturegli	SoM
Sumera Yego	2020	KSAS	Assessing Barriers to Menstruation Education in Nandi County Kenya	Ilil Benjamin	KSAS
Jiali Zhang	2020	KSAS	Object recognition strategies in human visual perception and deep convolutional neural networks	Chris Baker	NIH, SoM
Nicholas Zhang	2021	WSE	Predicting the Biomechanical Properties of 3D-Printed Mid-Facial Bone Scaffolds	Warren Grayson	SoM
Peter Zhu	2021	KSAS	"What is a dax?": 17- to 48-month old infants' use of disjunctive syllogism in word learning	Justin Halberda	KSAS

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Brianna Aheimer	2019	KSAS	Learning About Color in the Absence of Vision: A Training Study with Blind Individuals	Marina Bedney	KSAS
Hannah "Christina" Aspinwall	2020	WSE	Determining Solvent Quality's Effect on Polymer Brush Density	Michael Bevan	WSE
Woudese Befikadu	2019	KSAS	The Ethiopian Developmental State: Understanding Current Land Tenure Practices	Robbie Shilliam	KSAS
Shubhayu Bhattacharyay	2020	WSE	A Feature-Based Approach to Quantify Motor Activity in Critically Ill Neurological Patients Using an Unobtrusive Wearable Sensor Matrix	Robert Stevens	SOM
Anna Chen	2020	KSAS	Manipulating the mTOR Pathway to Improve T-cell Function in Cancer Immunotherapy	Jonathan Schneck	SOM
Theresa Chen	2019	WSE	Integrating Protein Mediators to Develop Enhanced Acellular sTEVGs for Vascularization in Mice	Sharon Gerecht	WSE
Justin Cho	2020	KSAS	Using Local Google Search Trends to Predict Violent Crime in Baltimore: An Interdisciplinary Approach	Rebecca Fix	BSPH
Elizabeth Cohn	2020	WSE	Energy-Based Control for Low Inertia Power Systems	Enrique Mallarda Garcia	WSE
Rafael Ferguson	2019	WSE	The Setbacks of Sunscreen: Toxicity investigation of transformation products from UV exposure and oxidation of benzophenone UV-filters	Carsten Prasse	WSE
Tina Gao	2021	WSE	Engineering a Novel Material for Plasmonic Photocatalytic Systems	Susanna Thon	WSE
Shane Gilligan-Steinberg	2020	KSAS	Analyzing and Quantifying Mosaic VSG Formation in Trypanosoma brucei	Monica Mugnier	BSPH
Preethi Gopal, Milan Patel, Shikha Singh	2020, 2018, 2019	KSAS	Project Healthy Schools - Sri Lanka: Examining the International and Cross-Cultural Impact of a Diabetes Prevention Program (<i>Group Project</i>)	Gilbert Burnham	BSPH
Archita "Archie" Goyal	2021	KSAS	Identifying Neural Networks Activated by Contextual Fear Memory in Mecp2+/- Mice	Constance Smith-Hicks	SOM
Rebecca Grusby	2020	WSE	Improving Hemocompatibility and Anti-Biofouling of 3D-Printed Cardiovascular Conduits Through Surface Modifications	Sung Hoon Kang	WSE
Chloe Grzyb	2020	KSAS	Neurofilaments as biomarkers of disease activity in spinal muscular atrophy	Charlotte Sumner	SOM
Maya Hammonds	2019	KSAS	SNPC-4 and SIM-6 are required for male-specific piRNA expression in C. elegans	Rebecca Tay	KSAS
Anna-Maria Hartner	2020	KSAS	Efficacy of Low-Cost Air Pollution Sensors for Public Health Fieldwork in Uganda	Darryn Waugh	KSAS
Jiaqi "Jessie" He	2021	KSAS	Implications of Agricultural Land Transfer on Social Equities in Rural China	Joel Andreas	KSAS
Atticus Hebson	2019	PI	Bringing the Music of Laurence Crane to Baltimore	Oscar Bettison	PEA

Nicole Hernandez	2019	WSE	Investigating the effect of vaginal gel formulation on cervicovaginal mucus barrier properties	Laura Ensign-Hodges	SOM
Lauren Jacob	2020	WSE	Wind-Tunnel Testing and Analysis of Flow-Induced Flutter in Permeable Membranes	Rajat Mittal	WSE
John Klein	2020	KSAS	Research on John Keats' Shifting Aesthetics & Influences	Jared Hickman	KSAS
Mofan Lai	2020	PI	Is Performing Different From Playing?	Susan Weiss	PEA
Xiang "Lisa" Li	2020	WSE	Modeling Underlying Forms in Natural Languages	Jason Eisner	WSE
Jialiu "Annie" Liang	2021	WSE	Parameters influencing arrhythmia inducibility in the post myocardial infarcted (MI) heart arising from treatment with PSC-CM cell sheets	Natalia Trayanova	WSE
Sarah Liu	2019	KSAS	Translation and Philology: An Examination of François Cheng	Christopher Cannon	KSAS
Nancy Luo	2019	KSAS	Disruption of Sleep-dependent Excitation-Inhibition Balance Regulation in Autism Mouse Models	Alfredo Kirkwood	SOM
Melissa Mai	2019	KSAS	Stochastic Hydrodynamic Modeling of Membrane Protrusions	Brian Camley	KSAS
Anisha Nagpal	2020	KSAS	Barriers to Implementation for School-based Sexual Health Interventions in Baltimore City	Beth Marshall	BSPH
Dante Navarro	2020	WSE	Using Wearable Technology to Measure Change in Functional Capacity Following Interventional Pain Procedure	Peter Searson	WSE
Tran "Melody" Nguyen	2020	KSAS	Identifying in vivo modifiers of nemaline myopathy causing actin mutations	Anthony Cammarato	SOM
Chidinma Nnadi	2019	KSAS	Probing the Effect of Sequence Variations on Vectorial Folding of the Oryza sativa Twister Ribozyme	Sarah Woodson	KSAS
Shivani Pandey	2021	WSE	Development of an optogenetic system for point-pacing cardiomyocytes in vitro	Geran Kostecki	SOM
Ramya Prabhakar	2019	KSAS	Leaving the Past Behind: An Examination of Identity Shifts Over Time for Palestinian Refugees in Amman	Matthew Kocher	SAIS
Aishwarya Pradeep	2020	KSAS	The Role of Low Threshold Mechanoreceptors in Peripheral Nerve Injury	Michael Caterina	SOM
Raul Roura	2020	KSAS	HEARS: Adapting a community health worker approach to basic hearing care for low-income older adults in the Baltimore Hispanic Community	Carrie Nieman	SOM
Shreya Singereddy	2019	KSAS	The functional interplay between ALG-1 and ALG-2 Argonaute proteins during development.	John Kim	KSAS
Catherine Siu	2021	KSAS	Resolving Host-Pathogen Interactions During Attaching/Effacing Pathogen Infections By in vivo Dual RNA-Sequencing	Fengyi Wan	BSPH
Gayatri Susarla	2019	WSE	Design of a Microcontroller-Based High-Speed In Vivo Neuroimaging System	Arvind Pathak	SOM

Michael Tritsch	2020	KSAS	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
Ronald Wang	2020	KSAS	Engineering a Novel Model for Huntington's Disease to Develop a Drug Screening Assay Screening Platform	Christopher Ross	SOM
Lucy Webb	2020	KSAS	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
Jeanna Yu	2020	KSAS	Combating HIV Through Non-Classical Peptide Presentation	Scheherazade Sadegh-Nasser	SOM
Kevin Yu	2021	KSAS	Regeneration of Leydig Cells after Injury in Mice	Erika Matunis	SOM
Yueqi "Bill" Zhang	2021	WSE	Monocytes as Cellular Immunotherapy for Allergic Asthma	Nicola Heller	SOM
Xuwen "Alice" Zheng	2020	KSAS	A Novel Approach to Sequencing of Immune Receptor Repertoires	Janelle Montagne	SOM
Zhenglong Zhou	2019	KSAS	Becoming an expert counter-adversary	Chaz Firestone	KSAS
Evonne Zhu	2020	WSE	JHU Computer Animation: Bridging the Gap Between Computer Science and Art	Misha Kazhdan	WSE

AY 2018 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Sami Ayele	2019	KSAS	Ça Tue Le Temps: Evaluating Youth Participation Among the Senegalese Murid	Sydney Van Morgan	KSAS
Kiana Boroumand	2020	KSAS	Single motherhood, Nordic Culture, and the European Welfare System	Andrew Cherlin	KSAS
Ruoqing "Robin" Cai	2019	WSE	Pulmonary Pre-Metastatic Modifications Induced by Breast Cancer	Kristine Glunde	SOM
Jae Wook Chung	2018	WSE	Engineering Artificial Lymph Nodes: Stimulation of T cells in 3D Hydrogels	Jonathan Schneck	SOM
Himanshu Dashora	2019	WSE	Investigating Fibroblast and Stem Cell-Derived Cardiomyocyte Interactions on Decellularized Myocardial Tissue Slices	Leslie Tung	SOM
Julia Duvall	2019	KSAS	Development of Tinnitus Homeostatic Plasticity Model Mediated by Drug Delivery to the Cochlea	Dwight Bergles	SOM
Lauren Fang	2018	WSE	Development and Pilot Evaluation of an Automated Method of Ambu-Bag Ventilation for use in Low-Resource Settings	Nicole Shilkofski	SOM
Lilly Fang	2018	KSAS	HIF2a Regulation of Extracellular Matrix in Smooth Muscle Cells	Sharon Gerecht	WSE
Sashini Godage	2018	KSAS	Evaluation of the Efficacy of a Text Message Intervention Targeting NYC Taxi Drivers	Lisa Ross de Camp	SOM
June Ho Hwang	2018	KSAS	Investigating the Role of Protein Phosphatase 2C in Meiotic Chromosome Dynamics	Yumi Kim	KSAS
Yash Jain	2019	KSAS	Biochemical analysis of UHRF1 binding to differentially methylated DNA	Srinivasan Yegnasubramanian	SOM
Hyunjun "John" Kim	2019	KSAS	Optogenetic control of glial cell line-derived neurotrophic factor (GDNF) receptor signaling	Gabsang Lee	SOM
Kelsey Ko	2019	KSAS	Asian American identity in the Black and White Racial Moment: A Baltimore Case Study	Erin Chung	KSAS
Kevin Li	2018	WSE	MarrowMate: A Closed, Continuous Aspiration Device to Expedite and Optimize Bone Marrow Biopsies	Hai-Quan Mao	WSE
Anna Lindsay	2019	WSE	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
Alex Liu	2018	KSAS	Paris Antisense Oligonucleotide (ASO) as a potential therapeutic intervention for Parkinson's Disease	Ted Dawson	SOM
Emilia Logan	2018	KSAS	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
QianHui "Kayla" Ma	2019	KSAS	Exploring Beliefs and Cognitions Behind Co-rumination in Young Adults	Alison Papadakis	KSAS

Xiaoqiang "Elvin" Meng	2020	KSAS	Toward a Shared Aesthetic: Musical Narrative in <i>Ulysses</i>	Douglas Mao	KSAS
Gabrielle Moss	2018	WSE	Investigating bounds for the bond and site percolation threshold values for a 2-uniform lattice	John Wierman	WSE
John "Jack" Mountain	2018	WSE	Inducing Membrane Fusion in Living Cells Through Synthetic SNARE Tethering	Takanari Inoue	SOM
Shih-Hao "Ben" Ou	2018	WSE	Self-Assembling Immunofibers for High Affinity Binding of Immunoglobulin G	Honggang Cui	WSE
Supriya Paidemarry	2019	KSAS	Development of a Simple, Robust Assay to Isolate CRISPR Edited Strains and to Explore Transgenic Silencing Mediated by piRNAs	Geraldine Seydoux	SOM
Jhillika Patel	2018	KSAS	Readmissions Reduction Initiative	Rob Besch	BSPH
Ruchit Patel	2020	KSAS	Sustainability of an Early Mobilization Program for Critically Ill Children: A Qualitative Analysis of PICU Up!	Sapna Kudchadkar	SOM
Michael Peters	2019	KSAS	Use of ribavirin as a potential anti-nasopharyngeal carcinoma therapeutic	Henry Brem	SOM
Debanik Purkayastha	2020	WSE	Neuroprint: Bioprinting by rapid and gentle deposition of multiple cell types in precise anatomic arrangements	David Nauen	SOM
Benjamin Ramsay	2018	WSE	Clustered Iterative Sub-Atlas Registration to Facilitate Surgical Planning and Quality Assurance in Orthopedic Surgery	Jeff Siewerdsen	SOM
Kristi Rhead	2018	KSAS	What can Art do for Religious Tolerance? The Case of the Tree of Hope in Marseille	Sara Miglietti	KSAS
Luis Rodriguez	2018	WSE	Free-flow Isotachophoresis Device to Separate Nucleic Acids and Proteins in Bodily Fluids	Zachary Gagnon	WSE
Michelle Santangelo	2018	KSAS	Emerging Toward a Biological Framework for Understanding the Neocortical Connectome	William Gray Roncal	APL
Mariah Schrum	2018	WSE	An Automated Process for Extracting Salivary Glands from Mosquitos for the Production of Malaria Vaccines	Russ Taylor	WSE
Jisu Shin	2018	KSAS	Spheroid Motility, Invasion, and Proliferation of the Breast Cancer Metastatic Cells Exposed to Hypoxia	Daniele Gilkes	SOM
Manjari Sriparna	2019	KSAS	Investigating LAG3 Inhibitors to Reduce Prion-Like a-syn Transmission	Xiaobo Mao	SOM
Monica Taneja	2018	KSAS	Ethnicity, obesity and comorbidity in breast cancer survivors and women without breast cancer: a comparison using <i>NHANES</i>	Avonne Connor	BSPH
Le Minh Hieu "Henry" Tran	2018	WSE	Effect of Oil-polymer Interaction on Adhesion Characteristics of Polymers	Joelle Frechette	WSE
Oscar Volpe	2019	KSAS	The Effect of Extreme Poverty on the Pattern of Consumer Expenditures	Robert Moffitt	KSAS
Vicky Wang	2020	KSAS	Developing <i>in vitro</i> Systems to Investigate Putative HIV-1 Restriction Factors and their Mechanisms	Andrea Cox	SOM
Molly Young	2018	KSAS	George Eliot and Psychologized Vision	Andrew Miller	KSAS
Xintong "Cindy" Yuan	2019	KSAS	Does Serotonin Encode the Value of Continuing a Rewarding Pursuit?	Marshall Shuler	SOM

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Recipient	Year	Division	Proposal Title	Mentor/s	Division
Julia Bindman	2017	KSAS	User-Oriented Design of Prostate Cancer Decision-Support Tool (PA-3592104831)	Scott Zeger	BSPH
Rebecca Black	2017	KSAS	Co-culture of Endothelial and Smooth Muscle Cells Using Erythrocytotic Patient-Derived Stem Cells to Study Pulmonary Hypertension	Sharon Gerecht	WSE
Amy Chi	2019	WSE	Transient Tracer Fingerprints of Atlantic Meridional Overturning Circulation	Anand Gnanadesikan	KSAS
James Damewood	2018	KSAS	Vitamin C as an Example of Antioxidant Activity	Kit Bowen	KSAS
Louna Dekker	2017	PI	Behind the Curtain - Women's Influence on Musical Culture Through the Salon	David Smooke & Marina Piccinini	PI
Annie Elander	2017	KSAS	The Influence of Cortisol in Cognitive Health and Alzheimer's Disease	Arnold Bakker	SOM
Jennifer Flournoy	2018	WSE	Developing 3D Molding and 3D Printing Techniques to Study the Effect of Geometry on Protein Expression in Micro-Tissues	Yun Chen	WSE
William Franceschi	2019	WSE	Investigating the Pro-Arrhythmic Interaction Between Fibrosis Burden and Ablation Lesions in Patients with Persistent Atrial Fibrillation	Natalia Trayanova	WSE
Daniel Huang	2019	WSE	Deciphering superhelicase motions using SPRNT and spinach DNA	Taekjip Ha	SOM
Vivian Jou	2019	KSAS	Determining NR2E1's endogenous ligand and its effects on human cells	Young-Sam Lee	KSAS
Dan Ju	2017	KSAS	Noseleaf dynamics and sensorimotor feedback control in bat echolocation	Cynthia Moss	KSAS
Mitchell Keller	2017	WSE	Ammonium and Phosphate Sequestration via ZSM-5 Zeolites	Chao Wang	WSE
Ji Woong "Brian" Kim	2018	WSE	Cell Stretching Platform for Cell-Cell Adhesion Strength Measurement and Self-Organization Behavior Tissues	Yun Chen	WSE
Taein Lee	2017	WSE	Analysis of Electrical and Mechanical Properties of Organic Membranes Poly(styrene-co-methacrylic acid) and Poly(benzyl methacrylate) in Biosensor Applications	Howard Katz	WSE
Alexandra Luna	2018	KSAS	Endogenous Nurr1 Ligand and Parkinson's Disease	Young-Sam Lee	KSAS
Skylar Luu	2019	KSAS	Dissecting the dopaminergic circuitry controlling <i>Drosophila</i> sleep	Mark Wu	SOM
Ami Mange	2018	KSAS	Investigating the Effects of ¹⁶ O Radiation on Neurobehavioral Performance in Rats	Catherine Davis-Takacs	SOM
Shivani Mehta	2018	KSAS	TB Knowledge and Attitude of Pregnant Populations from Resource Limited Settings: A Cross Sectional Study from Pune, India	Rupak Shivakoti	SOM
Kevin Necochea	2018	WSE	Novel Biodegradable Nanoparticle for Reprogramming T cells in Cancer Immunotherapy	Jonathan Schneck	SOM

Tony Pan	2018	WSE	Formulation Optimization for Glutaminase Inhibitor Loaded Nanoparticles	Qingguo Xu	SOM
Duy Phan	2018	KSAS	The development and progression of Romanticism in piano music	Susan Weiss	PI
Naomi Rodgers	2018	KSAS	LIBSing on a Prayer: A study of climate cyclicity in the Newark Basin	Kevin Lewis	KSAS
Denis Routkevich	2018	WSE	Investigating endosomal escape of polymeric nanoparticles for gene delivery	Jordan Green	SOM
Randal Serafini	2018	KSAS	Potential Role for Inhibition of Chloride Loading Mechanisms to Treat Chronic Pain Secondary to Sciatic Nerve Injury	Michael Caterina	SOM
Vishwesh Sha	2018	WSE	Simultaneous Inhibition of Cancer Cell Proliferation and Migration to Reduce Tumor Growth and Metastatic Burden	Denis Wirtz	WSE
John Shin	2018	KSAS	Does testosterone maintain dendritic spine density in the brains of male mice?	David Linden	SOM
Arun Sridharan	2017	KSAS	Tuning the Biradical Behavior of Quinoidal Methano[10]annulene through Steric Effects	JD Tovar	KSAS
Asa Stahl	2017	KSAS	Probing the Mysteries of LINER Galaxies	Nadia Zakamska	KSAS
Noah Stanco	2018	WSE	Forced In Silico Unfolding of Helical Fast Folding Proteins	Rigoberto Hernandez	KSAS
Alec Stepanian	2018	KSAS	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
Matthew Tan	2018	WSE	Effect of Film Thickness on Elastohydrodynamic Interactions in Rebounding Solids	Joelle Frechette	WSE
Songnan Wang	2017	WSE	Low Oxygen Tension to Enhance Cardiomyocyte Differentiation and maturation from Induced Pluripotent Stem Cells	Sharon Gerecht	WSE
Tony Wang	2018	WSE	Machine Learning Algorithms for Evaluating the Efficacy of Immunotherapies for Tissue Regeneration	Jennifer Elisseeff, Suchi Saria	SOM, WSE
Amy Xiao	2018	WSE	Nanoparticle-mediated Drug Delivery for Improved Treatment of Dry Eye Syndrome	Laura Ensign	SOM
Yu-Hsin Yen	2017	KSAS	Investigating the Role of Neuropilin-2 and Semaphorin-3F in the Rod Photoreceptor Synapse	Alex Kolodkin	SOM
Rebecca Zhang	2018	KSAS	Restoring the Inhibitory Interneuron Network Deficits in an Animal Model of Schizophrenia	Michela Gallagher	KSAS
Zezhou "Zach" Zhao	2018	KSAS	miRNA 186-3p in HIV infection and extracellular vesicle shuttling	Kenneth Witwer	SOM

AY 2016 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Andreas Chai	2016	WSE	Characterization of the Migratory Patterns of CD8+ T Cells in Microchannels	Fidel Zavala	BSPH
Sunho "Jerome" Chung	2015	KSAS	Investigating the role of Narp in the antidepressant efficacy of electroconvulsive therapy	Irving Reti	SOM
Brendan Dang	2017	WSE	Engulfment of myelin debris by oligodendrocyte progenitors	Dwight Bergles	SOM
Cody Elias	2016	KSAS	The effects of mindfulness meditation training and tDCS on sustained attentional and working memory processes	Susan Courtney	KSAS
Joon Eoh	2017	WSE	Enhancing Elastin Production and Maturation in Vascular Smooth Muscle Tissue Derived from Human Induced Pluripotent Stem Cells using Pulsatile Flow Bioreactors	Sharon Gerecht	WSE
David Hamburger	2017	KSAS	Investigating the Impacts of Rising Anti-Semitism on the Identities of British and Dutch Jewish Youth	Steven David	KSAS
Han "Debra" Huang	2016	WSE	Exploring Possible Improvements of Deep Brain Stimulation by Computational Model Simulation	Sridevi Sarma	WSE
Darin Johnson	2017	KSAS	Adult Hippocampal Neurogenesis and Medial Temporal Lobe Epilepsy	Kimberly Christian	SOM
Karl Johnson	2018	KSAS	Platelet and Regulatory T Cell Interactions During HIV/SIV Infection	Kelly Pate	SOM
Julia Ju	2016	WSE	The Influence of Hypoxia on the Functional Coupling of Cancer Cell Proliferation and Migration	Denis Wirtz	WSE
Michael Kelly	2016	WSE	Investigating the Active Galactic Nucleus Unification Model with the MaNGA Survey	Nadia Zakamska	KSAS
Daniel Kim	2017	KSAS	The Molecular and Cellular Determinants of Epithelial Duct Bifurcation	Andrew Ewald	SOM
Young Eun Kim	2015	WSE	Gene Vector Sensitization of Chemotherapeutic Resistant Glioblastoma	Jung Soo Suk	SOM
Michael Koo	2018	WSE	Unfolding the paths of microRNA suppression in Acute Lymphoblastic Leukemia	Linda Resar	SOM
Yun Ji "Diana" Lee	2017	KSAS	The reactivation of latent HIV in infected astrocytes by a small RNA inhibitor	Kenneth Witwer	KSAS
Spandana Mandalaju	2018	KSAS	Temporal Characteristics of Surprised-Induced Enhancement of Learning Effect in Preschool-Aged Children	Lisa Feigenson	KSAS
Kristen Manto	2017	WSE	Hydrogel Capsule Technology as New Tool for Studying Cell Migration	Konstantinos Konstantopoulos	WSE
Denis McInerney	2018	KSAS	Sensor Curvature Study for the Higgs Boson	Andrei Gritsan	KSAS
Arman Mosenia	2016	WSE	Analysis and control of plasmid distribution for enhanced gene delivery	Jordan Green	SOM

SangWoo Park	2016	WSE	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
SungJae Park	2017	KSAS	From Tigers to Dragons: An Historical Sociology of East Asia	Daniel Pasciuti	KSAS
BaDoi Phan	2016	WSE	Transcriptome Analysis of Pitt Hopkins Syndrome in a Murine Model	Thomas Hyde	SOM
Edwina Picon	2016	KSAS	Non-Suicidal Self-Injurious Behaviors at Hopkins	Alison Papadakis	KSAS
Brian Ryu	2017	WSE	Effect of Drainage Channels on the Hydrodynamic Drag on a Rolling Sphere	Joelle Frechette	WSE
Daniel Shade	2017	WSE	Hypoxia-induced DDR2 expression promotes breast cancer metastasis	Daniele Gilkes	SOM
Yi Shao	2015	KSAS	Treatment with levetiracetam targeting hippocampal dysfunction improves cognition associated with schizophrenia	Michela Gallagher	KSAS
Yu Jung Shin	2017	WSE	Engineered Bovine Tissue for Corneal Reconstruction	Jennifer Elisseeff	SOM
Sameer Thakker	2017	KSAS	Examining Metabolite Differences in LTBI vs. Active Infection	Petros Karakousis	SOM
Sang Tran	2016	KSAS	Investigating the Roles of DNA Elements in Stochastic Gene Expression	Robert Johnson	KSAS
Fernando Vicente	2018	WSE	High Throughput and Multiplex Analysis of Rare Antigen-Specific T Cells	Jonathan Schneck	SOM
Rose Wall	2016	WSE	Mitigating the Dangers of Submerged Hydraulic Jumps from Low Head Dams	Ciaran Harman	WSE
Annette Wang	2018	KSAS	Role of ipRGC-neurotransmitters, glutamate and PACAP, in light-dependent mood and learning regulation	Samer Hatter	KSAS
Brandon Yu	2018	WSE	The Role of Glycogen in Neuronal Cell Death by Oxygen Glucose Deprivation	Shaida Andrabi	SOM
Yuxi Zhang	2018	KSAS	Association of preoperative food preferences with postoperative weight loss	Kimberley Steele	SOM

AY 2015 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Minkyung "Annie" Cho	2016	KSAS	Exploiting natural variation to elucidate the mechanisms that control stochastic specification of color-detecting photoreceptors	Robert Johnston	KSAS
Alicia Coronado	2017	WSE	Motivation to Analyze Shear Stress in Heterogeneous Cell Populations During Collective Migration	Denis Wirtz	WSE
Jeremy Fraenkel	2017	KSAS	The Economics of Currency Boards in Sarawak and British North Borneo - An Untold Story	Steve Hanke	WSE
Jarrett Gilgore	2015	PI	Heritage:An Exploration of the Music and Life of Jimmy Lyons	Gary Thomas	PI
Alaina Gold	2015	KSAS	Seasonal neuromorphology: Investigating seasonal changes in the human brain	Arnold Bakker	KSAS
Ioana Grosu	2017	KSAS	The Morphology of Number in Romanian Language	Colin Wilson	KSAS
Christopher Jou	2016	KSAS	Developing and patterning of the mammalian hypothalamus from neural stem cells	Hongjun Song	SOM
Barbara Kim	2016	WSE	Biomedical engineering innovation for simplification of neonatal resuscitation in the developing world	Utpal Bhalala	SOM
Evan Kim	2017	KSAS	Youth Culture in Korea and its Relation to the West through an Ethnographic Documentation	Bernadette Wegenstein	KSAS
Tyler Knowlton	2015	KSAS	The Parser's Dilemma: Memory vs. Grammatical Constraints in Sentence Processing	Akira Omaki	KSAS
Chenhao Li	2017	WSE	MAPK Mediates Phthalate-Induced Reduction of Steroidogenesis in Leydig Cells	Barry Zirkkin	BSPH
Michael McCartin Jr	2015	KSAS	Characterization of a novel cardioprotective mechanism: O-GlcNAc regulated autophagy	Natasha Zachara	SOM
Nicole Michelson	2017	KSAS	Subjective Social Status and Psychosocial Distress in Brain Tumor Patients	Alfredo Quinones-Hinojosa	SOM
Joshua Novack	2016	KSAS	A Novel Crosstalk Mechanism between LINC Complexes and Mechanoresponsive Transcription Factors in Muscle Differentiation	Denis Wirtz	WSE
Georges Obied	2015	KSAS	Giant Scattering Cones in Obscured Quasars: A Hubble Telescope Study	Nadia Zakamska	KSAS
Eric Ong	2016	WSE	Electrochemical control over gold nanoparticle interfacial assembly	Joelle Frechette	WSE
Pranay Rao	2015	WSE	The mechanism of multicellular aggregate growth and invasion inside three-dimensional matrices	Denis Wirtz	WSE
Benjamin Rosser	2016	KSAS	LHC Run2 Data Analysis	Petar Maksimovic	KSAS
Yong Kai Saw	2016	WSE	Energy-Efficient Desalination Enabled by Regenerative Magnetic Nanoprobes	Chao Wang	WSE
Julie Shade	2017	WSE	Mechanistic Determination of Optimal Parameters for Pulmonary MPP Delivery	Justin Hanes	SOM

Haziq Siddiqi	2016	KSAS	Interaction between stochastic and deterministic genetic factors in visual nervous system development	Robert Johnston	KSAS
Momodou Sonko	2016	KSAS	Identifying Epigenetic Factors in the GnRH Promoter Involved in the Regulation of Pubertal Onset	Sally Radovick	SOM
Andrea Theodoru	2016	KSAS	Coulomb Interactions in the Hydrophobic Interior of a Protein: A Quantitative Study of the Forces that Govern Enzyme Catalysis	Bertrand Garcia-Moreno	KSAS
Shiyu Xia	2016	WSE	Injectable HAMC-PLGA Composite for Ocular Drug Delivery	Justin Hanes	SOM

AY 2014 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Ryan Alvarez	2014	WSE	Controlling the Global Phenotype of a Dynamic, Heterogeneous Cell Line via Biophysical & Biochemical Manipulation	Denis Wirtz	WSE
Clayton Andrews	2017	WSE	Transcriptional Regulation of Stem Cells for Peripheral Nerve Regeneration	Hai Quan Mao	WSE
Patawut Bovonratwet	2015	WSE	Contributions of Metabolic Flux & Hexosamine Scavenging to the Mobility of Metastatic Pancreatic Cancer Cells	Kevin Yarema	WSE
Kirsten Burke	2017	KSAS	Interaction of Visual and Auditory Modalities	Xiaoqin Wang	KSAS
Shawn Costello	2015	KSAS	A Computational and Experimental Model for Membrane Protein Flux	Karen Fleming	KSAS
Giana Dawod	2016	KSAS	The Effect of a Range of Bilingualism on Cognitive Performance in Non-Language Cognitive Domains	Arnold Bakker	KSAS
Alexander de la Vega	2016	KSAS	Tales of Dragons: A Reconstruction & Study of the Ming Dynasty Two-Stage Rocket	Yulia Frumer	KSAS
Amanda Facklam	2015	WSE	The Effect of Hypoxia on the Longevity of Stem Cell-Derived Vascular Networks	Sharon Gerecht	WSE
Ryan Gallo	2014	KSAS	Neuronal Lineage-Tracking in a Developmental & Cellular Model of Schizophrenia & Autism	Brady Maher	KSAS
Michael Gao	2015	WSE	Improving Hurricane Power Outage Predictions with Aerial Imagery	Seth Guikema	WSE
Grace Hancock	2015	KSAS	The Role of miRNA's in HIV Resistance of Highly Exposed Individuals	Ken Witwer	SOM
Gwendolyn Hoffman	2016	WSE	Chip-Based S-100B Assay for Diagnosis of Traumatic Brain Injury	Peter Searson	WSE
Meghana Kalavar	2015	KSAS	Investigating Glioma Induced Neurovascular Dysregulation Using Multiphoton Microscopy	Arvind Pathak	KSAS
Peter Kalugin	2015	KSAS	Elucidating the role of intraflagellar transport in primary cilia	Takanari Inoue	KSAS
Nathaniel Kato	2015	WSE	Ethylene Detection and Controlled Ripening of Fruits	Marc Donohue	WSE
Dohee Kim	2015	WSE	Delaying ALS Progression & Extending Survival by Modulating CSN Excitability	Solange Brown	WSE
Joshua Land	2014	KSAS	Lotus Eyes Film Production	Meredith Ward	KSAS
Victoria Laney	2017	WSE	Analysis of MDA-MB-231 Breast Cancer Cell Decision Making in Y-Shaped Micro channels	Kostas Konstantopoulos	WSE
Polly Ma	2015	WSE	Lens-Free Microscopy for Fluorescence Imaging of Digital DNA Assays & Development of Melting Curve Analysis	Jeff Wang	WSE
Henry Sanchez	2016	WSE	Modeling Blood-Brain Barrier Transport In-Vitro Using Hydrogel Microfibers	Peter Searson	WSE
Amy Sun	2016	WSE	Automated Reconstruction Algorithm to Investigate Breast Cancer Progression	Aleksander Popel	WSE
Sara Suzuki	2015	KSAS	Prevention of Cerebrovascular Disease by Use of a Glycosyltransferase Inhibitor	Subroto Chatterjee	KSAS

Zhuo "Ben" Zhang	2016	WSE	High-Speed Pseudorandom Grayscale Pattern Generation for Ultrafast Compress	Mark Foster	KSAS
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AY 2013 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Alex Abramson	2014	WSE	Micro-Fabrication of Metallic Spikes on Microgrippers for Use in Targeted Drug Delivery	David Gracias	WSE
Brandon Bhasin	2014	WSE	Computational Modeling of Micro vascular Networks in Murine Skeletal Muscle	Feilim Mac Gabhann	WSE
Ruu Harn "Annie" Cheng	2016	KSAS	Representing the Size of the Space in the Brain	Soojin Park	KSAS
Willa Cochran	2015	SoN	Migrant Women as Reproductive Health Educators via Social Remittances	Nicole Warren	SoN
Erica Fuhrmeister	2014	WSE	A Quantitative Approach to Fecal Contamination and Sanitation	Ed Bouwer	WSE
Matthew Gonzales	2016	WSE	Controlled Synthesis and Characterization of Alloy Nanoparticles	Chao Wang	WSE
Mahdieh Hosseini	2015	KSAS	Understanding Emerging Latino-Muslim Communities in the United States	Juan Obarrio	KSAS
Pattawan Jareonvonggrayab	2016	WSE	Novel Metric "Interloop Distance" and Early Repolarization ECG Phenomenon	Larisa Tereshchenko	SoM
Hyun Ji "Sarah" Kim	2014	WSE	Characterization of Brain Tumor Model Systems	Denis Wirtz	WSE
Bryan Kohrs	2014	KSAS	Investigating the Mechanism of Multidrug Transcription Initiation of BmrR	Herschel Wade	SoM
Ivan Kuznetsov	2016	WSE	A Quantitative Model of Blood-Brain Barrier Efflux Transport	Peter Searson	WSE
Min Hyae "April" Lee	2015	WSE	HIF-Dependent Expressions of ITG α 5 and ITG α 1 Mediate Breast Cancer Cell Adhesion to Promote Breast Cancer Metastasis	Gregg Semenza	SoM
Sun Joo Lee	2015	KSAS	Axon-Cancer Interactions in a Novel Microfluidic Device	Pankaj Pasricha, In Hong Yang	SoM
Albert Lu	2015	WSE	The Regulation of DICER and its Impact on HIV-1	Ken Witwer	SoM
Sharon Ong	2014	KSAS	Investigate Whether Different Wavelength Sensitive Cones have Distinct Contributions to Non-Image Forming Functions	Samer Hattar	KSAS
Carlene Partow	2016	KSAS	The Relationship between Sleep Hours, Emotional Memory and Neurophysiological Response	Michael Yassa	SoM
Parth Patel	2016	WSE	Hypoxia Induced Differentiation of Vascular Cells from Human Induced Pluripotent Stem Cells	Sharon Gerecht	WSE
Rajan Patel	2015	KSAS	A Novel Approach for Alzheimer's Disease Treatment using Immunotherapy Targeting Tau Pathologies	Tong Li	SoM
Amy Schettino	2014	KSAS	Can Enrichment and Exercise Mitigate the Effects of Noise-Accelerated Hearing Loss?	Amanda Lauer	SoM
Kyu Man Sim	2014	KSAS	Developing In Vivo Cre-Dependent Gene Knock-Down System in Adeno-Associated Virus	Hongjun Song	SoM
Ernest So	2014	WSE	Modeling Cell Growth in Fission Yeast using Level Set Methods	Pablo Iglesias	WSE

Puchong Thirawatananond	2014	KSAS	Investigating the Genetic and Molecular Link of Kidney Hypertrophy to Atherosclerosis	Subroto Chatterjee	SoM
Samuel Zorowitz	2014	KSAS	Counterfactual Reasoning and Distributive Justice	Colin Wilson	KSAS

AY 2012 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Kessie Alexandre	2013	KSAS	Preference and Local Perceptions of Cholera Prevention and Treatment Education in Rural Haiti	Henry Perry	BSPH
Ahmed Aly	2013	WSE	Sustained Release of Methotrexate from PLGA based Microspheres loaded with Micelle-like Methotrexate Conjugate PEO-b-PHAA-MTX	Jennifer Elisseeff	SoM
Craig Bohrson	2014	WSE	Parameterizing the Rosetta Score Function for Prediction of Protein-Surface Interactions	Jeff Gray	WSE
Allen Chang	2013	KSAS	Examination of the Role of Culture and Ethnic Background in Facial Recognition	Michael Yassa	SoM
Ryan Cotterell	2013	KSAS	Phonological Opacity and Diachronic Variation	Colin Wilson	KSAS
Sarah De Silva	2013	KSAS	A View into Medical Students' Minds: Understanding Affective Responses to Substance Abuse and Lying in Patients and Effects on Clinical Decision-Making	Luis Buenaver	SoM
Maya Harary	2013	KSAS	The Role of Vitamin D in Multiple Sclerosis	Peter Calabresi	SoM
Karen Ho	2013	KSAS	Use of Chunking to Increase Spatial Working Memory in Preschool-Aged Children	Lisa Feigenson	KSAS
Kevin Huang	2014	WSE	The Effect of Morphological Change on Transfection Efficiency of Polymer/DNA Nanoparticles	Hai Quan Mao	WSE
Samuel Ji	2014	KSAS	Hippocampal Memory Function and Traumatic Brain Injury	Michael Yassa	SoM
Po Wei "Billy" Kang	2014	WSE	Optimizing Activation of CIC-2 to Bypass the Cystic Fibrosis Ion Transport Defect	Pamela Zeitlin	SoM
Jong Heun Kim	2014	WSE	Development of a Novel Microfluidic Platform for Multiple Sclerosis Study	Nitish Thakor	SoM
Thuy-My Le	2013	WSE	Non-toxic Dielectrophoresis Purification of Induced Dopaminergic Neurons	Mike Betenbaugh	WSE
Stephen Lee	2013	WSE	Thermoelectric Devices from Organic and Inorganic Composite Materials: Developing Materials with Large Seebeck Coefficients and Electrical Conductivities	Howard Katz	WSE
Inzer Ni	2013	WSE	Cigarette Smoke Induced Bacterial Infection in Macrophages: Mechanisms & Therapeutic Strategy	Neeraj Vij	SoM
Justin Nichols	2013	SoN	The reliability and factor structure of the Severity of Violence Against Women Scale with women of African descent	Jackie Campbell	SoN
Shu Pan	2013	WSE	Formulating and optimizing carbohydrate-decorated mucus-penetrating nanoparticles for lung epithelial cells-targeted gene delivery	Justin Hanes	SoM
Jeong Hoon Park	2013	KSAS	Polyp Angiogenesis: Developing Standard Curve For Detection Of Colorectal Cancer	Subroto Chatterjee	SoM
Varun Patel	2014	KSAS	Hindu Samskṛas with Translation and Transliteration	Uma Saini	KSAS

Sarina Raman	2015	KSAS	The Role of Herpes Simplex Virus in Graft Versus Host Disease of the Skin in Pediatric Bone Marrow Transplant Patients	David Loeb	SoM
Carolyn Tsai	2013	KSAS	Investigating the Role of Runx1 in Establishing Hairy Skin Innervation Patterns of Nonpeptidergic Nociceptors	David Ginty	SoM

AY 2011 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Madeleine Beebe	2012	SoN	Abuse and Disrespect by Health Care Providers as a Barrier to Facility-based Births in Mali	Nicole Warren	SoN
Wui Yarn "Daphne" Chan	2013	WSE	Formulation and Optimization of Mucus-penetrating Nanoparticles for Delivery of Lung Cancer Drugs	Justin Hanes	SoM
Sean Dangelmajer	2013	KSAS	Testosterone Regulation of NMDA Receptors in Relation to Sensorimotor Vocal Learning in Female Canaries	Greg Ball	KSAS
Prabhav Deo	2013	KSAS	Reconciling Object-based Attention with Independent Feature Selection	Jonathan Flombaum	KSAS
Zainab Doctor	2014	KSAS	Discovery of Cellular Metabolites Regulating Mammalian Acetyl-Coenzyme A Synthetases	Young-Sam Lee	KSAS
Kenneth Felsenstein	2012	KSAS	Tumor Angiogenesis: Rational Development of Therapeutic Strategies	Hans Hammers	SoM
Jacqueline Ferguson	2012	KSAS	Secondhand Smoke on the Homewood Campus	Erika Tang	BSPH
John Kim	2013	WSE	The Centrosome-associated Retrogene, Centrin 1, is a Novel Cancer Testis Antigen Biomarker and Plays a Key Role in Cancer	Robert Getzenberg	SoM
Akshay Krishnaswamy	2012	WSE	Independent Spatiotemporal Neural Patterns Underlying Reach-to-Grasp Movements	Nathan Crone	SoM
Nishant Kumar	2013	WSE	Development of a Microfluidic Platform for Isolation of Axonal Materials to Assay to Microglia	Nitish Thakor	SoM
Seung Hoon Lee	2013	KSAS	Developing Cross-synaptic Tracers to Map the Neural Circuitry	Hongjun Song	SoM
Tiras Lin	2013	WSE	Fly on a Wall: A Combined Experimental-Computational Study of the Aero and Body Dynamics of Landing in a Fruit-Fly	Rajat Mittal	WSE
Maria Ly	2013	KSAS	Pattern Separation of Verbal Stimuli in Young and Older Adults	Michael Yassa	SoM
Sachi "Margarita" Mana-ay	2012	SoN	Community Attitudes about Domestic Violence and Effects on Resource Utilization	Jackie Campbell	SoN
Hyun Sung Park	2013	WSE	Formation of Neuromuscular Junctions using Embryonic Stem Cell-Derived Motor Neurons in a Novel Compartmentalized Microfluidic Chamber	John McDonald; Inhong Yang	SoM
Elizabeth Peijnenburg	2013	KSAS	Directed Differentiation of Endothelial Cells from Human Pluripotent Stem Cells	Sharon Gerecht	WSE
Anne Pigula	2013	WSE	Gender Differences in Skeletal Muscle Ischemic Response	Feilim Mac Gabhann	WSE
Richard Powers	2012	WSE	Computational Modeling of the Stereocilia Membrane and the Implications for Hair Cell Mechanotransduction	Alexander Spector	SoM
Lauren Rubino	2012	SoN	Understanding the Use of Milk, Milk Additives and Milk Substitutes among Low-Income Latino Parents in Baltimore	Pamela Jeffries	SoN

David Sambade	2013	KSAS	Redox Catalysis with Metalloporphyrin-Functionalized TiO ₂ for Solar Energy Conversion	Gerald Meyer	KSAS
Arianne Sevilla	2012	WSE	Measurement of Peeling Forces	Joelle Frechette	WSE
Steven Su	2012	WSE	Visualization and Quantitative Analysis of Ras Small GTPase in Primary Cilia Resorption	Takanari Inoue	SoM
Ang "Andy" Tu	2013	WSE	Acellular Artificial Lymph Node (aaLN) for Generation of Antigen-specific Cytotoxic Lymphocytes	Jonathan Schneck	SoM
Stephanie Valarezo	2013	WSE	Characterizing Lysosomes in Differentially Invasive/Metastatic Breast Cancer Cell Lines	Kristine Glunde	SoM
Hui Yang	2012	KSAS	Inhibition of the nuclear factor CTCF leads to microphthalmia in early eye development	Valeria Canto-Soler	SoM
Ava Yap	2013	KSAS	Cadherin-Based Cancer Cell Motility in Epithelial Tissues	Denis Wirtz	WSE
Sohail Zahid	2013	WSE	Imputing Linkage Disequilibrium for Genome-Wide Association Studies	Joel Bader	SoM

AY 2010 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Ashley Aaroe	2011	WSE	"Arts and Ataxia: A Novel Dance Approach to Cerebellar Disease Therapy"	Sarah Ying	SoM
Stephan Alexander	2011	WSE	Amide-type Collagen Cross-linking and the Viscoelastic Response of Cornea to Controlled Inflation	Vicky Nguyen	WSE
Mark Brennan	2012	KSAS	Ethical, Practical, and Multilateral Metrics in Climate Change Mitigation	Benjamin Zaitchik	KSAS
Johannah Butler	2011	SoN	Use of Simulation Modules and Social Networking to Improve Patient Education and Self-Care in Heart Failure Patients	Cheryl Dennison	SoN
Leela Chakravarti	2012	KSAS	Amyotrophic Lateral Sclerosis (ALS) Induced Changes in Basigin Expression Patterns	Jeff Rothstein	SoM
Wesley Chiang	2012	KSAS	Factors Associated with Return Visits among Elders to the Emergency Department	Melissa McCarthy	SoM
Husain Danish	2012	KSAS	Determination of the Mechanism of Prostaglandin Synthesis by Cyclooxygenase-2	Justine Roth	KSAS
Chung-ha Davis	2011	KSAS	Roles of Galectin-3 (Mac-2) and Gpnmb in Glaucoma Neuropathology	Nicholas Marsh-Armstrong	SoM
Robert Dilley	2012	KSAS	The Identification of Epigenetic Biomarkers for Myeloid Malignancies	Michael McDevitt	SoM
Stephen Dria	2012	WSE	Development of a Microfluidic Platform for Neural Stem Cell Differentiation and Proliferation	Nitish Thakor, Avindra Nath	SoM
Manaswi Gupta	2011	WSE	Retinal Tool Tracking Algorithms: An Investigative Approach	Greg Hager	WSE
John Johnson	2011	PI	The Persian Diaspora and its Effects on Musics of the Middle East	Susan Weiss	PI
Heechul Jun	2011	KSAS	Characterization of Cellular Mechanisms of Paroxetine on Adult Hippocampal Neurogenesis	Hong Jun Song	SoM
Sooji Lee	2011	KSAS	The Effect of Platelet Derived Growth Factor on the Activation of Matrix Metalloproteinases and the Invasive Capacity of Human Derived Brain Tumor Stem Cells	Alfredo Quinones-Hinojosa	SoM
Laura Livaditis	2011	KSAS	Evaluating Children for Obstructive Sleep Apnea: A Comparison of Community Physicians to Board-Certified Sleep Medicine Physicians	Laura Sterni	SoM
Manisha Narayanan	2012	KSAS	Detecting Cosmic Rays: From Public Awareness to Calibration of Particle Detectors	Andrei Gritsan	KSAS
Nitish Niphadkar	2011	WSE	The Physical – Chemical Basis of FGFR3 Activation in Achondroplasia	Kalina Hristova	WSE
Spencer Ong	2012	WSE	Designing and Implementing an Accurate and Spatially-Adaptive Poisson Solver for Applications in Computer Graphics	Michael Kazhdan	WSE
Thomas Pak	2012	KSAS	Proliferative Capacity of the Hypothalamic Proliferative Zone across Different Age Points	Seth Blackshaw	SoM

Jinesh Shah	2011	WSE	Optimizing Cell-Adhesive Mucus-Penetrating Nanoparticles for Delivery of Anti-HIV Microbicides	Justin Hanes	SoM
Millie Shah	2012	WSE	Computational Modeling of VEGF and sFlt-1 to Simulate Pre-Eclampsia and Evaluate Treatments	Feilim Mac Gabhann	WSE
Yichen Shen	2011	KSAS	Simulation of Dynamics in Artificial Spin Ice	Oleg Tchernyshyov	KSAS
Danica Sheth	2011	WSE	Investigating Electrowetting on a Dielectric: Influence of Contact Angle Hysteresis on Electrowetting Performance	Joelle Frechette	WSE
Avik Som	2012	WSE	Cyclodextrin (CD-COOH) Hydrogels: Mimicking Cellular Microenvironments for Cartilage Tissue Engineering	Jennifer Elisseeff	WSE
Katherine Stingl	2011	KSAS	Mechanisms Underlying Meal-Entrainment	Timothy Moran	SoM
Steven Tobochnik	2011	KSAS	Contributions of Olfactory and Trigeminal Signaling to Odor Perception in Mice	Haiqing Zhao	SoM
Luis Tueros-Grimaldo	2012	WSE	Visualization of Metadata in Environmental Wireless Sensor Networks	Andreas Terzis	WSE
Greg Vorsanger	2012	WSE	RFID Protected USB Flash Drive Hub	Gerald Masson	WSE
Zachary Wach	2011	WSE	Neuronal Differentiation of Human Induced Pluripotent Stem Cell by Pulsed Electrical Field	Hai-Quan Mao	WSE
Peter Yang	2012	WSE	Polymeric siRNA Delivery for Knockdown of eGFP Expression in HUVECs and hMSCs	Warren Grayson	SoM
Ashok Yerramsetti	2012	KSAS	Do Spatial Memory Principles Apply to Real World Environments?	Amy Shelton	KSAS
Arthur Young	2012	KSAS	Assessment of Pre-surgical Psychological Screening in Patients Undergoing Spine Surgery: Implementation and Clinical Impact	Richard Skolasky	SoM

AY 2009 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Deepak Atri	2011	KSAS	The Migration and Recruitment of Human Neural Progenitor Cells in Response to Glioblastoma	Alfredo Quinones-Hinojosa	SoM
Brian Barone	2012	PI	The Vihuela in Colonial Cuzco	Susan Weiss	PI
Abhiram Bhashyam	2011	WSE	Effect of Immunosuppression and Denervation on Mucociliary Clearance in a Murine Model	Beth Laube	SoM
Molly Broach	2011	KSAS	Identifying mutations that affect left-right differences in the brain	Marnie Halpern	KSAS
Cy Chavez	2011	KSAS	Characterization of TRH Targets Required for Epithelial Cell Invagination	Deborah Andrew	SoM
Sara Hassani	2011	KSAS	The Effect of Maternal Stress and Nutrition of Offspring Food Preference	Timothy Moran	SoM
Brian Keeley	2012	WSE	Development of a Single Tube Nanosensor Methylation Detection System	Jeff Wang	WSE
Ranjini Krishnamurthy	2011	WSE	Relating ECM stiffness to Cancer	Denis Wirtz	WSE
Carson Riche	2011	WSE	Vector Separation of Brownian Particles through Interfacial Interactions	German Drazer	WSE
Katelyn Saner	2011	KSAS	"To See the Sun Go Down on Galway Bay" - The 1930s Razing of Claddagh Village	John Marshall	KSAS
Vivek Suri	2011	KSAS	Intrinsic Reformations of Test Theories of Special Relativity and the Problem of the One-Way Speed of Light	Robert Rynasiewicz	KSAS
Olivia Tong	2011	KSAS	Noise Induced Hearing Loss and Personal Music Players	Howard Francis	SoM
Jimmy Tooley	2011	KSAS	Does Fis1 Affect the Assembly-Dependent GTP Hydrolysis by Drp1?	Blake Hill	SoM
Wilson Tsang	2011	WSE	Improving Field of Vision Using VR Head Tracking Technologies	Jin Kang	WSE
Weixi Zhong	2011	WSE	Engineering Cell-Adhesive Mucus-Penetrating Nanoparticles for Sustained Drug Delivery for Mucosal Surfaces	Justin Hanes	SoM

AY 2008 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Jiwoon "Joon" Chang	2010	KSAS	Kelo, Hathcock, and eminent Domain in America: The Struggle Between Personal Freedom and the Collective Benefit	Assaf Gilad	SoM
Yung-Chi Chuang	2009	WSE	Microscopic origin of the Slip Boundary Condition at a Fluid Solid Interface	German Drazer	WSE
Jaeyoon Chung	2009	KSAS	TRB3 as a Critical Mediator of Melanoma Progression	Rhoda Alani	SoM
Debalina De, Sounmya Irvinti	2010	KSAS, WSE	Detection of HIV Infection Among Neonates Using a Biobarcode-Based Nanoparticle Assay on Dried Blood Spots (<i>Group Project</i>)	Deborah Persaud	SoM
Anne Fehrenbacher	2009	KSAS	Not for Sale: Human Trafficking Across the Atlantic	Lingxin Hao	KSAS
Amy Goh	2009	SoN	Yoga and Cortisol Levels in Victims of Intimate Partner Violence Residing at the House of Ruth, Maryland	Phyllis Sharps	SoN
Mitra Heshmati	2009	KSAS	Time-Lapse in Vivo Imaging of Collateral Sprouting by Cerebellar Climbing Fibers	David Linden	SoM
David Huberdeau	2010	WSE	Development of an Upper-limb Prosthetics EMG-Based Control System	Nitish Thakor	SoM
John Kegelman	2009	WSE	Fluid Mechanical Evaluation of Arm Stroking Patterns in Front Crawl Swimming	Lester Su	WSE
Lucas Kelly-Clyne	2010	KSAS	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	Karl Alexander	KSAS
Sneha Mani	2010	KSAS	The Role of the Cajal Body in Small RNA Processing	Trina Schroer	KSAS
Chih-Ping Mao	2009	KSAS	A Novel DNA Vaccine Based on Linkage of Antigen to Viral Fusogenic Membrane Glycoproteins	T-C Wu	SoM
Gyasi Moscou-Jackson	2009	SoN	IPV Screening Preferences of African American & Afro-Caribbean Women Seen in Healthcare Settings	Jackie Campbell	SoN
Neil Neumann	2009	KSAS	Elucidating 3D Geometry in the AraC Protein Using Lanthanide-based Resonance Energy Transfer	Robert Schleif	KSAS
Nikhil Rao	2009	KSAS	SiRNA Inhibition of Pro-Apoptotic Genes in Stem Cells	Mike Betenbaugh	WSE
Zachary Senders	2010	KSAS	The Impact of Statin Treatment on Neuropathic Pain and Regeneration Following Sciatic Nerve Injury	Beth Murinson	SoM
Kathryn "Kari" Sepelyak	2009	KSAS	Effects of Temporal-Parietal vs. Inferior Frontal Cortex Damage on Temporal Order Processing	Argye Hillis	SoM
Nisarg Shah	2009	WSE	Evaluation of Mucus Penetrating Biodegradable Polymer Nanoparticles in Mice Lungs for Delivery of Chemotherapeutics for Lung Cancer	Justin Hanes	SoM

Janice Son	2009	KSAS	Relativity of Early Glial Activity in Optic Nerves of the DBA/2J Glaucoma Mouse Model	Nicholas Marsh-Armstrong	SoM
Gloria Sue	2009	KSAS	Interactions Between Internal and Surface Charges in Proteins	Bertrand Garcia-Moreno	KSAS
Grace Tan	2010	WSE	Investigating Ventricular Tachycardia as a Result of Premature Stimuli in a Three-Dimensional Canine Cardiac Model of Heart Failure	Natalia Trayanova	WSE

AY 2007 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Anthony Au	2008	WSE	Multicompartment Microfluidic Chamber for Study of Axon Guidance and Target Innervation by Electrochemically Controlled Release of Guidance Molecules	Nitish Thakor	SoM
Patrick Connell	2008	WSE	Characterization of Cardiac Cells Cultured on PEGylated-Fibrinogen Scaffolds	Leslie Tung	SoM
Mikhail Gorbounov	2008	KSAS	Identification of Hypoxia-Responsive Gene Promoters in Human Cervical Carcinoma Cells	Ru Chih Huang	KSAS
Ying Guan	2008	WSE	Finite Element Modeling of Subflooring Connection Rotational Stiffness for Cold-Formed Steel Low Rise Construction	Ben Schafer	WSE
Ravi Gupta	2009	KSAS	The Role of Hippocampal CaM Kinase-II in the SIV/Macaque Model of HIV-Induced Neurodegeneration	Joseph Mankowski	SoM
Rwo-Wen Huang	2008	KSAS	The Function of Phosphodiesterase 4A in Axonal Targeting of Olfactory Sensory Neurons	Haiqing Zhao	KSAS
Terrence Jao	2008	WSE	Emergent Locomotor Oscillations in Gymnotiform Fishes	Eric Fortune	KSAS
Jin Lee	2008	KSAS	Haptic Robotics as an Aid to Copying in People With Williams Syndrome	Barbara Landau	KSAS
Adam Lovett	2008	KSAS	Diversity at Johns Hopkins 2007: The Hopkins Experience From the Voices of Students	Melanie Shell-Weiss	KSAS
Chih-Ping Mao	2009	WSE	Polymeric Nanoparticle-Mediated Delivery of Stat-3b DNA Selectively to Tumor Tissue for the Treatment of Ovarian Carcinoma	T-C Wu	SoM
David Marcus	2010	KSAS	Lost and Found Memories: Transition and Transformation Among the Meskhetian Turk Refugees of Maryland	Veena Das	KSAS
Ashwini Niranjan	2009	KSAS	Ascertaining the Migratory Ability of Human-Derived Neural and Brain Tumor Stem Cells Under Mitogenic Stimulation	Alfredo Quinones-Hinojosa	SoM
Chanont Vasoontara	2008	KSAS	Proteomics Study of Recurrence Ovarian Cancer	Ie-Ming Shih	SoM
Joseph Wood	2008	WSE	Antibody-Conjugated Polymeric Nano-particles for Targeted Treatment of Ovarian Cancer	Justin Hanes	WSE
Heather Woodworth	2008	PI	Mood Disorders: Depression and Manic-Depressive Illness in Musically Creative Individuals	Geoffrey Wright	PI
Linmiao Xu	2008	WSE	Investigating Failed Defibrillation in a 2-D Experimental Model of Calcium Overload	M. Roselle Abraham	SoM
Gigi Yam	2009	WSE	Mechanisms of Shiga Toxin Uptake by Human Intestinal Epithelial Cells	Olga Kovbasnjuk	SoM

AY 2006 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Adnan Ahmad	2007	KSAS	Radical Islamism and State Crackdown: Examining the Implications of Bangladesh's Strategy to combat Domestic Terrorism	Waleed Hazbun	KSAS
Phan Nguyen Tu Ahn		KSAS	Do Secreted Mucosal Antibodies Help Regulate Vaginal Microflora?	Richard Cone	KSAS
Meredith Brinster	2007	KSAS	Inference vs. Instruction: The Difference Between Indirect and Direct Word Learning in Preschoolers	Justin Halberda	KSAS
Chih-Sheng "Jason" Chiang	2007	WSE	Correlating Alterations in Serotonergic Activity with the Systematic Anticonvulsant Activities Associated with Deep Brain Stimulation	Marek Mirski	SoM
Kevin Clarke	2005	PI	Some Ado: An Original Opera Film	Roger Brunyate	PI
Alican Demir	2007	WSE	A New Approach in Tactile Sensing: Fiber Optic Array Sensor	Noah Cowan	WSE
Kyle Fritz	2007	WSE	Effects of EGF Receptor Over Expression on Tumor Colony Growth Dynamics	Andre Levchenko	WSE
Jerzy "JJ" Gangi	2009	WSE, PI	Designing and Implementing A Web-Based Toolkit for Ear Training: The Virtual "TA"	Courtney Orlando	PI
Chase Gray	2007	SoN	Anxiety as a Predictor of Chonic Pain Susceptibility in Rats	Gayle Page	SoN
Theresa Keating	2007	KSAS	The Role of Singing Behavior in Testosterone-Induced Brain Plasticity in Female European Starlings	Greg Ball	KSAS
Shyam Khatau	2008	WSE	Study of the Cytoskeletal Structure of Progeric Cells and Its Implications for Other Diseases	Denis Wirtz	WSE
Sudhir Khetan	2007	WSE	Exploiting Dibenzoylmethane, A Circumin Analog, for Treatment and Prevention of Lung-Inflammation Induced Lung Cancer	Justin Hanes	SoM
Aaron Lazorwitz		KSAS	The Dialectical Disputations of Lorenzo Valla (1405/07-1457): English Translation	Chris Celenza	KSAS
Byron Masi	2007	WSE	P Granule Motion in the Nematode C. Elegans	Denis Wirtz	WSE
Corey McCullough	2007	WSE	Herbicide Disinfection By-Products: Toxicity and Formation During Drinking Water Treatment	Lynn Roberts	WSE
Svetlana Primma	2008	KSAS	Determining the Effects of Point Mutations on the Ligand-Binding and Function of a Gene-Regulatory Protein AraC	Robert Schleif	SoM
Michelle Samson		KSAS	Behavioral Roles of the CNGB1b Channel Subunit in mice	Haiqing Zhao	KSAS
Mi-Kyung Shin		KSAS	Studying the Adsorption of Natural Organic Matter (NOM)	Howard Fairbrother	KSAS
David Tomich		KSAS	Characterization of a Human Insulator Protein	Victor Corces	SoM

Rachel Walker	2007	SoN	Partner Violence and HIV/AIDS Related Behavioral Outcomes in Women of African Heritage	Phyllis Sharps	SoN
Hanano Watanabe	2008	KSAS	Examination of EGF Receptor Clustering in A431 Cells: A Molecular Approach and Analysis using Forster Resonance Energy Transfer (FRET) and Environmental Scanning Electron Microscopy	Michael McCaffery	WSE

AY 2005 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Corey Chang	2007	WSE	Determining the Contribution of Murine APH-1 Isoforms in Influencing Gamma-secretase Activity in Various Regions of the Adult Brain	Philip Wong	SoM
Thanissara Chansakul	2006	WSE	Effects of Mesenchymal Stem Cells on Chondrogenesis of Embryonic Stem Cells in 3-D Poly (ethylene-glycol) based hydrogel	Jennifer Elisseeff	SoM
Sean Cheng	2006	WSE	Controlling Uniform Nanoparticle Fabrication Using Molecular Templates	David Gracias	WSE
Megan Goldman-Petri	2007	KSAS	Cult Practice, Technology, and Science: a JHU Archaeological Collection Case Study	Eunice Dauterman Maquire	KSAS
Kaitlin Haws	2006	SoN	Fathers clubs in Rural Haiti and Impact on Child Growth Monitoring	Beth Sloand	SoN
Laura Hollingsworth	2006	KSAS	Novel Suppressors of a Spindle Assembly Checkpoint Defect	Andrew Hoyt	KSAS
Corrie McKeen	2006	SoN	Sickness Behavior Symptoms & Inflammatory Cytokine Levels in Abused Women	Anne Woods	SoN
Jessie Mermelstein	2007	KSAS	A Comparative Study of Yeshivish	Geraldine Legendre	KSAS
Ellen Minnihan	2006	KSAS	A Detailed Kinetic Study of the Reactivity of a New Generation of Peptide Deformylase Model Complexes	David Goldberg	SoM
Ying-Ying Wang	2007	WSE	Characterization of Nanoparticle Transport in Cervical Vaginal Mucus for Topical Treatment of Bacterial Vaginosis via Polymeric Carriers	Justin Hanes	SoM
Allisandra Wen	2007	KSAS	Characterization of Zebrafish FOXP2, A Gene Implicated in Vocalization	Marnie Halpern	KSAS
Yinfei Xu	2008	WSE	Computational Studies of Proteins	Robert Schleif	KSAS
Jina Youn	2006	KSAS	The Role Amygdala Central Nucleus and Substantia Nigra Circuit in Surprise Induced Enhancement of Associative Learning	Michela Gallagher	KSAS
Simon Zaleski	2006	PI	A Consort of Colors: The Double Reed Ensemble	Susan Weiss	PI
Jonathan Zuckerman	2006	KSAS	The Bcl-2 Checkpoint and Programmed Cell Death in Caenorhabditis elegans	Blake Hill	SoM

AY 2004 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Ayush Batra	2005	WSE	Erythropoietin As a Neuroprotective Agent Against Ischemic Damage in the Spinal Cord	Lawrence Schramm	SoM
Guillermo Duarte	2005	WSE	The effect of Erythropoietin on the release of apoptosis-inducing mitochondrial Cytochrome c in heart failure pigs	Lili Barouch	SoM
Rica Mae Enriquez	2005	WSE	Regional scale land-atmosphere interaction using remote-sensing and large eddy simulation	Marc Parlange	WSE
Samuel Hahn	2005	WSE	Time-Course of Electrophysiological Remodeling During the Progression of Left Ventricular Mechanical Dysfunction	Gordon Tomaselli	SoM
Sravisht Iyer	2007	WSE	Using a Virtual Environment to Explore the Role of Contextual Cueing in Goal-Directed Walking and Cognitive Map Development	Kathleen Turano	SoM
Katerina Juhaszova	2005	KSAS	Invasive Isopods and Soil Nutrient Recycling	Katalin Szlavecz	KSAS
Christopher Kovalchick	2006	WSE	Microsample Tensile Testing of Novel Platinum Alloys	William Sharpe	WSE
Joe Lee	2005	WSE	Continued Performance Study of Fuel Cell Membrane Electrode Assemblies with Varying Platinum Plating on Nanoporous Gold	Jonah Erlebacher	WSE
Athar Naveed Malik	2005	WSE	Rational Understanding and Design of Biomaterial Compatibility for Tissue Engineering: Role of DNA Damage in Cell Death Caused by Photopolymerization Reactions	Jennifer Elisseeff	SoM
Sandya Nair	2006	KSAS	Using Cytotoxic agents to treat malignant gliomas in the rat brain	Henry Brem	SoM
Sudhir Prabhu	2005	WSE	Targeting Gene Carriers to Cancer Cell Nuclei via the Folate Receptor	Justin Hanes	SoM
Shiroman Prakash	2005	KSAS	The Topology of Entanglements and the Mechanical Behavior of Polymers	Mark Robbins	KSAS
Supria Ranade	2006	KSAS	Sorption Isotherms for Phenanthrene with Soot Black Carbon	Bill Ball	WSE
Pamela Riva	2005	KSAS	The creation of green fluorescent protein – maltose binding protein “switch” through domain insertion	Marc Ostermeier	WSE
Aalap Shah	2006	KSAS	Cdk/p35 complex phosphorylation of neurofilaments after cerebral ischemia	Judy Huang	SoM
Sophia Shakur	2005	KSAS	Semaphorin 3F Knockout Mouse Model: A New Model for Temporal Lobe Epilepsy	Jehuda Sepkuty	SoM
Eric Tan	2005	KSAS	The functional role of short-term synaptic depression in the processing of moving sensory images	Eric Fortune	KSAS
Christina Terpeluk	2005	WSE	The Qualifications of 19 th Century American Truss Bridges as Structural Art	Sanjay Arwade	WSE

AY 2003 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Veronica Beaudry	2004	KSAS	F1G1p: A Key Regulator of LACS (Low-Affinity Calcium Influx System) in Yeast	Kyle Cunningham	KSAS
Jeff Chang	2004	KSAS	The Role of IP3 Receptors in Visual Cortical Long-Term Depression	Alfredo Kirkwood	SoM
Raghu Chivukula	2005	KSAS	Neuroprotective Mechanisms in a Mouse Model of Amyotrophic Lateral Sclerosis (ALS)	Katrin Andreasson	SoM
David Choi	2004	KSAS	Stiffness Analysis of an External Fixator System Using Graphic Modeling and Numerical Simulations	Edmund Y.S. Chao	SoM
Daniel Davis	2004	KSAS, PI	If I Were a Voice, A Historically Based Opera on the Hutchinson Family	Michael Johnson	KSAS
Inga Gurevich	2004	KSAS	Optimal Parameters for Intrastriatal Transplantation in Parkinson's Disease	Anirvan Ghosh	SoM
William Hsu	2004	WSE	Modeling High Frequency Membrane Potentials in Cochlear Outer Hair Cells: Providing Insight Into Active Hearing	Alexander Spector	WSE
Vandna Jerath	2005	KSAS	Autism Netverse: A Literary Journey for the Autistic Mind	Tristan Davies	KSAS

AY 2002 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Julie Cho	2003	KSAS	The Role of Precision-Cut 1Lung Slices for Elucidating the Airway Correction Mechanism	Wayne Mitzner	BSPH
Miho Hada	2004	KSAS	Identification and Characterization of the Substrates of Parkin That Might Play an Important Role in Dopaminergic Cell Death in Parkinson's Disease	Ted Dawson	SoM
James Lee	2004	KSAS	Interaction of Lamin A with POM121	Katherine Wilson	SoM
Jinhee "Jessica" Lee	2005	KSAS	The Role of pp32 in Tumorigenesis & Differentiation	Gary Pasternack	SoM
Quan Lan "Jasmine" Lew	2003	KSAS	The Functional Role of Apoptotic Inducing Factor in the Apoptotic Pathway Through Investigation of the Binding Partners of AIF	Ted Dawson	SoM
David McGovern	2005	WSE	Design and Characterization of Cationic DNA-Carrying Nanoparticles	Justin Hanes	WSE
Christopher Nathasingh	2003	KSAS	Induction of Chemoprotective Phase 2 Enzymes by Berry Extracts	Thomas Kensler	BSPH
Kristin Olesen	2003	KSAS	Phosphorylation of cAMP Response Element Binding Protein (CREB) in the Canary Brain: Rapid Effects of Hormones in Relation to Song Behavior	Gregory Ball	KSAS
Jacob Raver	2003	KSAS	Dividing Jerusalem: Pragmatic or Problematic?	Steven David	KSAS
Deepthi "Martha" Reddy	2004	KSAS	The Genetic Connection Between Drug Resistance and Intestinal Diseases	Steven Brant	SoM
Luc Rougee	2004	KSAS	Association of Nitric Oxide Neuronal Chronic Preconditioning Against Cardiac Ischemia	Nitish Thakor	SoM
Taylor Tang	2003	KSAS	Identification and Characterization of Novel Tumor Antigens and Their Role in Ovarian Cancer	Richard Roden	SoM
Joel Weitzman	2005	WSE	Sorption Rate Studies with Hazardous Organic Chemicals and Wood Char	William Ball	WSE
Byung "Jason" Yoon	2004	KSAS	Regulation of Apoptotic Genes by FLT3/ITD Expression	Donald Small	SoM

AY 2000 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Pamela Aaron	2001	SoN	Adolescent Violence: Addressing the Issues That Affect Quality of Life	Jackie Campbell	SoN
Branden Cord	2001	KSAS	Methamphetamine Neurotoxicity in PARP Knock-Out Mouse	George Ricaurte	SoM
Shikha Garg	2001	WSE	A Functional Study of Seizure Cessation by Electrical Stimulation in a Model of Human Epilepsy	Marek Mirski	SoM
Christiani Guerrero	2001	SoN	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	Linda Pugh	SoN
Jihae "Esther" Kim	2003	WSE	Characterization of Odorant-Induced CREB Activation	Gabriele Ronnett	SoM
Jennifer Kuo		KSAS	Suppression of Sp1 Regulated Tumor Growth in Mice	Ru Chih Huang	KSAS
Brenda Lee			Reasons for the Effects of the C-Terminal Half of LAP2B on Chromosomes during Nuclear Assembly	Kathy Wilson	SoM
Christian Lim	2001	WSE	A Functional Study of Seizure Cessation by Electrical Stimulation in a Model of Human Epilepsy	Marek Mirski	SoM
Luiz Pantalena	2001	KSAS	In Vivo Observation of MyoD Activity Using GFP and YFP Fusion Proteins in C. Elegans	Andrew Fire	SoM
Susan Park	2004	KSAS	Achondroplastic Population and Quality of life	Ben Carson	SoM
Angela Ro	2001	KSAS	Microbicidal Gels for Protection Against STDs/ AIDS: Developing Methods to Achieve Complete Coverage of Susceptible Epithelial Surfaces	Richard Cone	KSAS
Heidi Shafland	2001	SoN	Context of Care for the Low Income Hispanic Population in Baltimore	June Miller	SoN
Nicole "Nikki" Sherman	2001	KSAS	Molecular Regulation of the Development of Fertilization Competence of Sperm	Janice Evans	BSPH
Benjamin Silverman	2002	KSAS	Point-of-Care Testing for Renal Transplant Rejection	James Nichols	SoM
Alicia Simoni	2001	KSAS	A Study of Homelessness, Motherhood and Womanhood in Baltimore	Felicity Northcott	KSAS
Eric Wilson	2003	WSE	An Evaluation of Residence Time Distribution as a Function of Time and Position	Bill Ball	WSE

AY 1999 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Vinay Aakalu	2000	KSAS	How Does Shank's Ank Anchor Shank?	Paul Worley	SoM
Richard Burwick	2000	KSAS	Analysis of RCN2, a Regulator of Calcineurin-dependent Gene Expression	Kyle Cunningham	KSAS
Steven Chang	2001	KSAS	Determination of the Proteins Involved in the Early Steps in Phytanic Acid Alpha-oxidation	Stephanie Mihalik	SoM
Seema Desai	2000	KSAS	The Role of Gdr8 in the Radioactive Resistance of D.radiodurans	M. J. Bessman	KSAS
Jamie Franco	2001	KSAS	Levina Teerline and 16th Century English Portrait Miniatures	Mark Blyth	KSAS
Sarah Friedenthal	2000	KSAS	Homeless Women's Health Care	Sara Berry	KSAS
Bommy Hong	2000	KSAS	Defects of Cholesterol Biosynthesis & Human Malformations	Richard Kelley	SoM
Jean Hudgins	2000	PI	Avant Garde Musical Techniques and the Saxophone	Gary Louie	PI
Owen Johnson III	2000	KSAS	The Effects of Extracellular pH on the Intracellular pH of Human Leukocytes and Preventing Sexual Transmission of HIV	Richard Cone	KSAS
Albert Jung	2000	WSE	Alpha 1B adrenergic receptor and Orthostatic Intolerance	Artin Shoukas	SoM
Lucas Karaelias	2001	KSAS	Effects of Norepinephrine on Synaptic Plasticity	Alfredo Kirkwood	SoM
Eunkyeong "Ruby" Kim	2000	KSAS	Mapping the Interaction Region of Notch 1 and L119	Paul Worley	SoM
Mihn "Michael" Pham	2000	KSAS	Biodistribution of IgA and IgG Monoclonal Antibody Types	Richard Cone	KSAS
Darwin Ray	2000	SoN	Perspectives on Parental Presence During Treatment of Pediatric Patients in the Emergency Department Trauma Bay	Linda Lewandowski	SoN
Sashank Reddy	2000	KSAS	Pleasure and Value in Hellenistic Ethics	Richard Bett	KSAS
Jonathan Silva	2000	WSE	Experimentally-based Computational Model for Neonatal Cardiac Rat Cells	Leslie Tung	SoM
Phillip Stripling	2000	KSAS	Research on Non-western Rhythms and Musical Combinations of Non-western and Western Rhythms	Susan Weiss	PI
Alexandra Surcel	2000	KSAS	Characterization of Histidine Rich Proteins in Plasmodium Falcipareum and their Role in Hemozoin Formation	David Sullivan	BSPH
George Wang	2000	KSAS	Understanding the Specificity of Protein-Ligand Interactions as seen in Sperm Whales Myoglobin	Doug Barrick	KSAS

AY 1998 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Niharika Bansal	1999	KSAS	The Role of Fertilin in Mouse Fertilization	Janice Evans	BSPH
Christopher Baugh	1999	KSAS	Mutagenesis and Crystallization of TraY	Joel Schildbach	KSAS
Matthew Bernabei	1999	KSAS	Adenovirus Mediated Gene Transfer in utero	Paul Kessler	SoM
Donna Bilu	2000	KSAS	The Effects of Stress on Immune Function in Mice	Randy Nelson	KSAS
Stephen Brady	2000	KSAS		Solomon Snyder	SoM
Richard Burwick	1999	KSAS	Calcineurin-Dependent Repressors of Gene Expression	Kyle Cunningham	KSAS
Jen-Sho "Joseph" Chen	2000	KSAS	Identification of an ER Retention Motif in the Resident Protein, Ste24p	Susan Michaels	SoM
Sam Clanton	2001	WSE	Post-Production Phase/YARDSALE: A Homegrown Documentary	Jerome Christianson	KSAS
Avni Desai	1999	KSAS	The Role of HMG-I/Y in the Development of Human Malignancies	Linda Resar	SoM
Matthew Frieze	1999	KSAS	Effect of DNA Sequence Composition on Spontaneous Mutation Frequency	Denise Montell	SoM
Kevin Janes	1999	WSE	Intravenous Delivery of Chitosan-Mediated Gene Therapy in vivo	Kam Leong	WSE
Ganesh Kamath	1999	WSE	Influence of Crosslinking on Sustained Gene Delivery Using DNA-Gelatin Nanosphere Technology	Kam Leong	WSE
Walter Lin	1999	KSAS	Ganglioside-Mediated T-Cell Responses in the CNS	David Irani	SoM
Tanya Merchant	2000	PI	Exploring Russian Baroque Music for Woodwinds	Susan Weiss	PI
Thomas Noone	2000	KSAS	Helping Hands or Sticky Fingers?	Joel Grossman	KSAS
Mahesh Shenai	1999	WSE	An Advanced 2-D Computer Model of Myocardial Ischemia	Nitish Thakor	WSE
Thach-Giao Truong	1999	KSAS	The Involvement of Rac1 in TNFa-Induced Apoptosis of Cardiac Myocytes	Kaikobad Irani	SoM
Michael Ty	1999	KSAS	GRASP-1, A Novel Adapter Protein in AMPA Receptor Mediated Cell Responses	Rick Huganir	SoM

AY 1997 PURA Cohort					
Recipient	Year	Division	Proposal Title	Mentor/s	Division
Kelly Abbett	1998	KSAS	A Her-story of Hysteria, 1865-1915	Antoinette Burton	KSAS
Rehana Ahmed	1998	KSAS	Identification of Nuclear Proteins Which Interact with Protein Kinase CKII	Evelyn Barrack	SoM
Heather Bruce	1998	KSAS	Cloning and Analysis of CAGH44	Russell Margolis	SoM
Robert Chin	1998	KSAS	Genome-wide Analysis of Genetic Changes in Adenocarcinoma of the Pancreas	Constance Griffin	SoM
Eric Edmunds	1998	KSAS	Age and Behavior-related Variation in Volumes of Song Control Nuclei in Wild Cassin's Finches	Gregory Ball	KSAS
Thomas Fralich	1999	WSE	The Role of Nerve Cell Glycoconjugates in the Control of Axon Outgrowth	Ronald Schnaar	SoM
Mollie Galloway	1998	KSAS	Timing of Puberty in Verbally and Mathematically Precocious Adolescents	Marie Balaban	KSAS
Adriana Izquierdo	1998	KSAS	La Fundacion Cristo Vive: Health Care and Public Policy in Chile	Franklin Knight	KSAS
Matthew Johnson	1998	KSAS	Trial Excavations at Umm el-Marra, Syria	Glenn Schwartz	KSAS
Stephen Kelly	1998	WSE	Wind Tunnel Testing for Stability Assessment of Long-Span Suspended Bridges	Nicholas Jones	WSE
Kyung "Jimmy" Lee	1998	KSAS	Mechanism of TGF-beta Desensitization in Glomerular Endothelial Cells	Barbara Ballerman	SoM
Tony Lee	1998	KSAS	Cloning of Syntaxin 8: A Novel Vesicle Trafficking Protein	Jonathan Pevsner	SoM
Rachel Lei	2000	KSAS	The Role of the E6 Human Papillomavirus Oncoprotein in Cervical Tumorigenesis	Kathleen Cho	SoM
Saeyoung Park	1999	KSAS	Investigating the Role of the Actin Cytoskeleton in Transcytosis in Polarized Hepatocytes	Ann Hubbard	SoM
Miruna Patrascanu	1998	KSAS	The Availability of Capital in the Agricultural Sector of Romania	Steven David	KSAS
Melissa Pavetto	1998	KSAS	Visual Spatial and Anxiety Correlates of Mathematics Disability	Michele Mazzocco	SoM
Marzban Rad	2000	WSE	The Search for Catalytic Nanophase Materials	Kit Bowen	KSAS
Daniel Rogart	1998	KSAS	Investigation of the Early Bronze Age Occupation at Tell Umm el-Marra, Syria	Glenn Schwartz	KSAS
Michael Roh	1998	KSAS	Calcium Transport across Chloroplast Inner Envelopes	Richard McCarty	KSAS
John Saxe	1998	KSAS	The 1943 Rescue of the Danish Jews	Benjamin Ginsberg	KSAS
Robert Smith	1998	KSAS	Researching the Escape of the Tibetan Guerillas from the Nepali Army	William Rowe	KSAS
Louis Stein Jr, Anshul Thakral	1998	WSE	Evaluation of the Effects of Various Long-term Pacing Waveforms on the Improvements of Heart Performance (<i>group project</i>)	Nitish Thakor	SoM
Sai-Kit Tseng	1998	WSE	Light Scattering Study of the Early Stage of the Phase Separation of a Non-ionic Surfactant Solution	Denis Wirtz	WSE
Christopher Valeri	1999	KSAS	Capturing Data from Surfaces: Measurement Error of Fuzzy Landmarks	Joan Richtsmeier	SoM

Craig Zapetis

1999

KSAS

Creating a Municipality of Metropolitan
Baltimore

Milton Cummings KSAS

AY 1996 PURA Cohort

Recipient	Year	Division	Proposal Title	Mentor/s	Division
Navneet Ahluwalia, Kerry Cross	1997	KSAS	Hong Kong Youth: Confronting the Future		
Jennifer Anderson	1997	WSE	Experimental Studies of Copolymer-Solvent Solution Behavior.		
David Bonnyay	1997	KSAS	A Ribozyme in Yeast Ty I Transposition		SoM
Stephen Carlson	1997	KSAS	An Intensive Study of Niebuhr and Kierkegaard's Radical Existential Praxix		
Kaida "Robert" Chin	1997		Identification of Gene Amplification in Adenocarcinoma of the Pancreas		SoM
Alexandra Cohen	1997	KSAS	Impact of a Palestinian Autonomous Region on Israeli Arabs.		
Nathaniel "Nate" Dominy	1998	KSAS	In search of ... lactating female Howler monkeys		KSAS
Avniel Ghuman	1997	KSAS	Critical Dynamics of Contact Line Motion		KSAS
Thomas Gillard	1997	WSE	Protecting the environment		WSE
Brian Glucroft	1997	PI	A Discovery and Performance of Robert Muczynski		PI
Matthew Goldrick	1997	KSAS	On the tip of your tongue....	Brenda Rapp	KSAS
Tamas Gonda	1997	KSAS	Mechanisms of Polarized Activation of Na/H Exchangers in Cultured Human Colonocytes		SoM
Tang Ho	1997	KSAS	The Effects of Scatter Factor/Hepatocyte Growth Factor on Human Glioma Malignancy		
Daniel Hoit	1997	KSAS	Diphtheria Antibody Response to Protein-Conjugated Vaccine in HIV Adults		SoM
Maki Hsieh	1997	KSAS	Religiosity, School Success and Community Dynamics.		SoE
Christina Jacobsen	1997		The Regulation of the HMGI(Y) Gene		SoM
Stephen Kaminski	1997	WSE	A Total Internal Reflective Fluorescence Study of Protein Adsorption on Membranes		
Am "Leo" Kim	1997	WSE	Mechanical Characteristics of Individual Recombinant Kinesin Molecules		
Min Sang Kim	1998	WSE	Design and Implementation of an Autonomous Mobile Robot		
I-hao "Justin" Kung	1998		Identification of DNA Sequences responsible for X Chromosome Inactivation: Mapping of Probes in the Relevant Region		SoM
Anupa Laheri	1997	KSAS	Better breathing for cystic fibrosis victims	Sandra Guggino	SoM
Jonathan Lazarus	1997	WSE	High Tibial Osteomy: Computer Assisted Planning and Precise Surgical Execution		
Percy Lee	1997	KSAS	Breakthroughs in the fight against AIDS		SoM
Alexandra Limkakeng	1997	KSAS	The Effect of Neural Growth Factor on Non-Spatial Working Memory		
Rimmy Malhotra	1997	WSE	A Portrait of the Former Yugoslavia		KSAS
Kito Mann	1997	PI	CyberSymphonies		PI

Valerie Marchi	1998		Functional Expression of the Cardiac Calcium Pump in Yeast		SoM
Cindy McClosky	1997	PI	German Language and Cultural Study	Susan Weiss	PI
Robert Mittendorf	1997	WSE	A Computational Study of the Auditory Cortex		
Matthew Nemeth	1997		After apartheid		
Mayur Patel	1997	KSAS	Beta-Turns in Aqueous Bilayers		
Chrysa Presta	1997	PI	A computer in the orchestra pit?		
Noreen Qureshi	1997	KSAS	The Changing Meaning of Hijab: Nationalism and Beyond		KSAS
Adam Rubin	1997		Unique IgM and IgG Target Epitopes-- Frequency of Occurrence and Molecular Basis		SoM
Matthew Scherneck, Jonathan Weinberger	1998	KSAS	Architecture meets ecology (<i>group project</i>)		KSAS
Parag Shah	1997	WSE	Visualization Aid for Cranio-Facial Surgery		
Lynette Sholl	1998		Dysregulation of the IL-4 Gene in a Mouse Model of Asthma		SoM
Kristi Stanton	1999		Quantitative Assessment of Lung and Brain Tumors		SoM
Daniel Stein	1997	WSE	Creating a shape-changing robot	Gregory Chirikjian	WSE
Yang Sun	1997	KSAS	Sun Yat-Sen: Making of a Revolutionary		KSAS
Goweharan Thaiyananathan	1997	WSE	Development of a Method of Force Measurement from Clamped Myocytes		
Arthur Tsai	1996	KSAS	How is a grasshopper like a person?		
Anthony Wei	1997		The Role of Mitochondrial Superoxide Generation in Alzheimer's Disease		SoM
Juliette Wells	1997	KSAS	A new look at Barbara Pym		KSAS
Scott Witonsky	1997	KSAS	The Search for Theoretically Predicted Magic Clusters		
Michael Yang	1998	KSAS	Design and Synthesis of Chromogenic Substrate for Assay of Ceramide Glycanase		
Sunny Young	1998		Development of Mouse Tumor Model for the Test of Cervical Cancer Vaccine		SoM