

Students by Class		Undergrad	PhD Program	Research topic
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**M1**

Ahn	Lucie	Duke University	Undecided	Undecided
Bonner	Melissa	University of Southern California	Undecided	Undecided
Boylan	Brendan	University of Wisconsin-Madison	Undecided	Undecided
Chen	Yi Fan	Cornell University	Undecided	Undecided
Dada	Hannah	University of Chicago	Undecided	Undecided
Grimmett	Zachary	University of California-Berkeley	Undecided	Undecided
Hannon	Emily	University of Colorado at Boulder	Undecided	Undecided
Kim	Brian	University of Pennsylvania	Undecided	Undecided
Koritzinsky	Erik	Cornell University	Undecided	Undecided

Lesser	Alexander	Cornell University	Undecided	Undecided
Salazar	Vanessa	Washington University in St Louis	Undecided	Undecided
Trichka	Josephine	Middlebury College	Undecided	Undecided
Wulftange	William	University of Nevada-Reno	Undecided	Undecided

**M2**

Bracey	Syrena	University of Maryland-Baltimore County	Undecided	Undecided
Cohn	Erin	Wesleyan University	Undecided	Undecided
Cooley	Michaela	Case Western Reserve University	Undecided	Undecided
Gu	Anniya	Syracuse University	Undecided	Undecided
Hong	Ellen	Cornell University	Undecided	Undecided
Jung	Olive	Northwestern University	NIH GPP	Undecided

Kondolf	Hannah	Cornell University	Undecided	Undecided
Sax	Joel	University of California-Berkeley	Undecided	Undecided
Scarborough	Jessica	University of San Francisco	Systems Biology & Bioinformatics	Undecided
Venetos	Nicholas	The Ohio State University	Undecided	Undecided
Wong	Derek	University of Chicago	Undecided	Undecided
Yi	Soon Yeul	Cooper Union	Undecided	Undecided

## **G1**

Abiff	Muta	SUNY Binghamton	Pathology/ Immunology	Undecided
Cruz	Michelle	Rensselaer Polytechnic Inst	Pathology/ Molecular and Cellular Basis of Disease	Undecided
Ferrell	Marc	University of Florida	Systems Biology & Bioinformatics	Undecided
Haider	Raza	Emory University	Physiology & Biophysics	Undecided
Jandzinski	Michal	University of Connecticut	Pathology/ Immunology	Undecided

Jindal	Dan	Stanford University	Neurosciences	Undecided
Luo	George	University of Wisconsin	Pathology/ Cancer Biology	Undecided
Luu	Jennings	University of California - Los Angeles	Pharmacology	G protein-coupled receptor signaling mediates the severity of light-induced retinal degeneration
McGrath	Morgan	Miami University-Ohio	Clinical Translational Science	Undecided
McHenry	Michael	Emory University	Epidemiology & Biostatistics	Undecided
Miller-Little	William	Kenyon College	Pathology/ Immunology	Undecided
Piemonte	Katrina	Ithaca College	Pharmacology	Undecided
Pinkard	Otis	University of Cincinnati	Genetics & Genome Sciences	Undecided
Schroder	Emma	University of Michigan	Molecular Biology & Microbiology	Regulation of the Pseudomonas Type III Secretion System

## **G2**

Ahad	James	Washington University in St. Louis	Biomedical Engineering	MR Applications in Heart and Prostate
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Fan	Liyan	University of Pittsburgh	Pathology/ Molecular and Cellular Basis of Disease	Role of the zinc-finger transcription factor Kruppel-like factor 15 (KLF15) in carbohydrate, lipid, and amino acid metabolism
Gomez-Nguyen	Adrian	University of Chicago	Pathology/ Immunology	Human fecal microbiota transplantation induces behavioral and neuroimmunologic changes in the SAMP/YitFc mouse
Hanson	Gavin	University of Kansas	Biochemistry	Advanced modeling approaches for predicting elongation dynamics across transcripts from sequence information
Kim	Uriel	University of Southern California	Clinical Translational Science	A Multilevel, Data-driven Approach to Facilitate Precision Lung Cancer Prevention Interventions
Robinson	Nathaniel	The Ohio State University	Pathology/ Cancer Biology	Function of SLX4-interacting protein (SLX4IP) in breast cancer
Sridharan	Preethy	Carnegie-Mellon University	Neurosciences	Microgliosis in Parkinson's Disease
Talsma	Aaron	University of Michigan	Neurosciences	Role of immune cells in the regeneration of peripheral nerves after injury
Vagnozzi	Alicia	Northwestern University	Neurosciences	Molecular Mechanisms of Phrenic Motor Neuron Development and Connectivity
Venus	Sarah	University of Cincinnati	Biochemistry	Role of DDX3 in translation/ viral infections
Wat	Jeanette	Rice University	Pathology/ Molecular and Cellular Basis of Disease	Differential contributions of hepatocytes versus Kupffer cells in the development of alcoholic liver disease

Zhang	Xinrui	Harvard University	Biochemistry	RNA-binding proteins as regulators of inflammation
Zhou	Bowen	Princeton University	Pathology/ Immunology	Cross-talk in cell death and immunological response in genetic disease

### **G3**

Allan	Kevin	University of Rochester	Genetics & Genome Sciences	Effects of HIF signaling in oligodendrocytes following neonatal hypoxic injury
Babinchak	Michael	University of Miami	Physiology & Biophysics	The Role of Liquid-Liquid Phase Separation in the Aggregation of the Wild Type and Mutant TDP-43 in Neurodegenerative Diseases
Barton	Brendan	University of Rochester	Pathology/ Immunology	Mechanisms of T cell activation by Viral-Like Nanoparticles in Glioblastoma
Cheng-Hathaway	Paul	University of California - Berkeley	Neurosciences	Mechanisms of TREM2 variant-mediated myeloid cell dysfunction in neurodegenerative disease pathogenesis
Choi	Elliot	Johns Hopkins University	Pharmacology	Retinal Pigment Epithelium-specific protein (RPE65) gene in Leber Congenital Amaurosis (LCA)
Gimple	Ryan	Duke University	Pathology/ Cancer Biology	Epigenetic regulatory elements converge to regulate lipid metabolism in glioma stem cells
Hubler	Zita	University of Illinois	Genetics & Genome Sciences	The Role of Sterols in enhanced Oligodendrocyte formation

Leonard	Daniel	SUNY Albany	Pathology/ Cancer Biology	SMAPs enhance tumor suppressive capacity of PP2A through regulation of PP2A-PME interactions
Morton	Andrew	Michigan State University	Genetics & Genome Sciences	Role of enhancers in chromosomal rearrangements
Prager	Briana	Harvard University	Pathology/ Cancer Biology	Leveraging the epigenetic landscape to identify novel targets in meningioma
Qiao	Peter	University of Pennsylvania	Biomedical Engineering	Development of a Extradomain-B Fibronectin Targeted MRI Contrast Agent for Pancreatic Cancer Detection
Song	Sydney	Boston College	Biomedical Engineering	A multifaceted approach to prolong the functioning lifespan of intracortical recording microelectrodes
Suh	Susie	University of California - Berkeley	Pharmacology	CRISPR/Cas9-Mediated Correction of Abca4 Mutations in a Stargardt Mouse Model
Sweet	David	The Ohio State University	Pathology/ Molecular and Cellular Basis of Disease	Identifying novel regulators of the myeloid response to vascular occlusion
Vicioso	Yorleny	SUNY Stony Brook	Pathology/ Cancer Biology	A Role for NF- $\kappa$ B c-REL in Regulating NK Cell Anti-Tumor Functions

#### **G4-5**

Alt	Daniel	Case Western Reserve University	Biomedical Engineering	Cellular aggregate co-cultures for microvascularized tissue engineering
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Asuru	Awuri	University of Alabama	Systems Biology & Bioinformatics	Development of Novel X-Ray Protein Footprinting Methods to Study Protein Structure in Complex Biological Systems
Benson	Bryan	University of Michigan	Pathology/ Molecular and Cellular Basis of Disease	Using microfluidics to dissect leukocyte intravascular crawling
Elitt	Matthew	Washington University in St. Louis	Genetics & Genome Sciences	Novel therapeutics for genetic disorders of myelin
Fort		Case Western Reserve University	Pathology/ Immunology	The Inflammatory pathways of aseptic loosening
Hickman	DaShawn	Yale University	Pathology/ Molecular and Cellular Basis of Disease	Synthetic Platelet Nanotechnology in Prophylactic and Emergent Treatment of Bleeding and Targeted Delivery of Hemostatic Agents using a Synthetic Platelet Platform in Trauma
Hung	Stevephen	University of Maryland	Genetics & Genome Sciences	Investigating the role of small insertions/deletions on the formation of oncogenic enhancers in colorectal cancer
Jiang	Sirui	Washington University in St. Louis	Pathology/ Molecular and Cellular Basis of Disease	Role of mitochondrial dynamics in Alzheimer's Disease
Kim	Leo	Princeton University	Pathology/ Cancer Biology	Differential expression and regulation of the ACSS gene in Glioblastoma multiforme



Li	Jiayang	University of Maryland	Physiology & Biophysics	Adeno-associated virus 9 gene therapy to restore functioning cMyBPC levels and prevent cardiomyopathy in cMyBPC <sup>-/-</sup> mice
Mazahery	Claire	Scripps College	Pathology/ Immunology	Regulation of CD8 T cell activation by opioids
Ojo	Evelyn	University of Maryland-Baltimore County	Pathology/ Cancer Biology	Understanding the mechanisms that modulate the cytotoxicity of NK cells
Plona	Kathleen	Ohio University	Genetics & Genome Sciences	Glycogen Storage Disease 1a : Modeling Genetic Diseases for Therapeutic Development
Rastogi	Anisha	Washington University in St. Louis	Biomedical Engineering	Evaluating Neural Force Modulation and Force-Controlled Intracortical Brain-Computer Interface Operation in Persons with Chronic Paralysis
Sears	Avery	Case Western Reserve University	Pharmacology	The structure and function of interphotoreceptor retinoid binding protein (IRBP)
Stomberski	Colin	Washington University in St. Louis	Biochemistry	Denitrosylases in Mammalian Metabolism
Tavera	Gloria	University of Florida	Clinical Translational Science	Genetic Association Between H. pylori Sequences and Progression to Gastric Adenocarcinoma
Taylor	Sarah	University of Rochester	Pathology/ Cancer Biology	Protein Phosphatase 2A A $\alpha$ -subunit mutations in the pathogenesis of Endometrial Carcinoma

Webb	Bryan	Washington University in St. Louis	Pharmacology	Defining super-enhancer landscapes in TNBC subtypes
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**M3**

Anderson	Christian	Case Western Reserve University	Biomedical Engineering	Development of Dual Contrast - Magnetic Resonance Fingerprinting (MRF) for Quantification of MRI Contrast Agents
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Borton	Anna	University of Dayton	Pathology/ Molecular and Cellular Basis of Disease	Hypoxic regulation of peripheral vascular smooth muscle cells through hypoxia inducible factors
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Glidden	Michael	University of South Florida	Physiology & Biophysics	Single-chain insulin analogs as ultra-stable therapeutics and as models of protein (mis)folding: stability, structure, dynamics, and function of novel analogs
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Gooding	Alex	University of Wisconsin	Pathology/ Cancer Biology	BORG: Role for a Novel lncRNA in Mediating Breast Cancer Metastasis and Dormancy
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Gunalan	Kabilar	Johns Hopkins University	Biomedical Engineering	Theoretical predictions of axonal pathways activated by subthalamic deep brain stimulation
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Hsieh	Nelson	University of Pittsburgh	Pathology/ Molecular and Cellular Basis of Disease	The Kruppel-like factors in aging and aging-associated pathology
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Liao	Peter	University of California - San Diego	Systems Biology & Bioinformatics	Characterization of cancer using bioinformatics tools
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McMillan	Alexandra	Johns Hopkins University	Pathology/ Molecular and Cellular Basis of Disease	Spatiotemporally controlled presentation of genetic material to stem cells for cartilage and bone tissue engineering
Murray	Abner	Florida International University	Molecular Virology	Plant virus-based cancer immunotherapy
Rathkey	Joseph	Seattle Pacific University	Pathology/ Immunology	Cytosolic mediated inflammatory response
Rege	Nischay	Cornell University	Biochemistry	The Un-Design and Design of Insulin Analogs
Tanenbaum	Joseph	Dartmouth College	Epidemiology & Biostatistics	The Association of Health Care Delivery and Payment Innovations with Avoidable Cardiovascular Hospitalizations

#### **M4**

Bartel	Courtney	Vanderbilt University	Pathology/ Cancer Biology	Novel roles for FAM83 oncogenes in breast cancer
Chirieleison	Steven	University of Pennsylvania	Pathology/ Immunology	XIAP-mediated innate immune signaling in inflammatory bowel disease
Czapar	Anna	University of Illinois	Pathology/ Molecular and Cellular Basis of Disease	Virus-Based Nanoparticles for Cancer Drug Delivery
Freeberg	Max	Princeton University	Biomedical Engineering	Improved standing rehabilitation with a neuroprosthesis employing anatomically versatile nerve-based electrodes
Marcott	Pamela	Wake Forest University	Physiology & Biophysics	Mechanisms of dopamine D2-receptor activation across the striatum

Nevin	Zachary	Stanford University	Genetics & Genome Sciences	Modeling Genetic Diseases of Myelin Using Patient-Derived Induced Pluripotent Stem Cells
Russo	Hana	University of Michigan	Pathology/ Immunology	Mechanism of pyroptosis: a caspase-1 mediated inflammatory cell death pathway
Stultz	Ryan	University of Iowa	Molecular Virology	Visualization of the Intracellular HIV-1 Replication Cycle
Tong	Alexander	Rhodes College	Pathology/ Immunology	Lymphocyte trafficking, homing and function: insights into the in vivo behavior of regulatory T and natural killer cells
Wang	Charlie	Case Western Reserve University	Biomedical Engineering	High Energy Phosphate Metabolism Measurement by Phosphorus-31 Magnetic Resonance Fingerprinting
Wilson	Kirkland	North Carolina Central University	Nutritional Sciences	Interrelations between 3-hydroxypropionate, propionate, and B-alanine Metabolism: Relevance to Propionic Acidemia
Wiredja	Danica	University of California - Los Angeles	Systems Biology & Bioinformatics	Phosphoproteomic Characterization of Systems-Wide Differential Signaling Induced by Small Molecule PP2A Activation