



## Students Graduating with Distinction

**Kelly Adamski**, Pediatric coronal suture fiber alignment and the effect of interdigitation on suture mechanical properties (*Dr. Cameron "Dale" Bass, Department of Biomedical Engineering*)

**Nicolas Altemose**, Characterizing the sequence content of heterochromatic gaps in the human genome assembly (*Dr. Huntington F. Willard, Department of Biology*)

**Daniel Ardeljan**, Sustaining circuitry of the PMC GRN at the onset of gastrulation (*Dr. David R. McClay, Department of Biology*)

**Jennifer Anne Brandon**, *Gambusia holbrooki* Subpopulation Structure in Commercial Runoff, Future Housing Development, and Forest Ponds (*Dr. Daniel Rittschof, Duke University Marine Lab*)

**Bogna Brzezinska**, Assembly of the gene regulatory network that specifies coelomic pouch development in the sea urchin (*Dr. David R. McClay and Dr. Stacy Kaltenbach, Department of Biology*)

**Catherine Castillo Castro**, The mutagenic effects of the chemotherapeutic drug camptothecin in yeast (*Dr. Sue Jinks-Robertson, Department of Molecular Genetics and Microbiology, Duke University Medical Center*)

**Petty Chen**, hdac Involvement in Single Lumen Formation of the Zebrafish Gut (*Dr. Michel Bagnat, Department of Cell Biology, Duke University Medical Center*)

**Michael Jay Cheng**, Using *Saccharomyces Cerevisiae* to Characterize Human Alanine: Glyoxylate Aminotransferase in Primary Hyperoxaluria Type I (*Dr. Chandra Tucker, Department of Biology*)

**Jinny Cho**, Polyploidy in wing scale development in the tobacco hornworm, *Manduca sexta* (*Dr. H. Frederik Nijhout, Department of Biology*)

**Natalie Como**, The Chromatin Remodeling Factor Mi-2 Transcriptionally Regulates the Microtubule-Severing Protein Katanin60-Like1 in the *Drosophila* Nervous System (*Dr. Nina Sherwood, Department of Biology*)

**Farah Dadabhoj**, Adverse Effects of Perinatal Ozone and Diesel Exposure on Lung Development and Behavior in Mice (*Dr. Richard Auten, Department of Pediatrics, Duke University School of Medicine*)

**Claire Daly**, The Role of Apoptosis and Cellular Proliferation in Mouse Foregut Remodeling (*Dr. John Klingensmith, Department of Cell Biology, Duke University Medical Center*)

**Robert Diep\***, Glucose transporter expression and fructose metabolism change after T cell activation (*Dr. Jeffrey Rathmell, Department of Pharmacology and Cancer Biology, Department of Immunology, Sarah W. Stedman Nutrition and Metabolism Center*)

**Brian Dong**, Identification of Novel Genes Causing Cardiomyopathy Through a Screen of Adult *Drosophila* (*Dr. Howard Rockman, Department of Cell Biology, Duke University Medical Center*)

**Alice Fan**, Genetic Determinants of Response to PI3 Kinase Pathway Inhibition in Lymphoma (*Dr. Sandeep Dave, Duke Institute for Genome Sciences and Policy*)

**Ava Feng\***, Astrocyte-Secreted Proteins Hevin and SPARC Regulate Synaptogenesis and Neurite Outgrowth (*Dr. Cagla Eroglu, Department of Cell Biology, Duke University Medical Center*)

**Kent Feng\***, Distribution of sulfated proteoglycans in Bruch's membrane of the mouse eye: implications for age-related macular degeneration (*Dr. Catherine Bowes Rickman, Department of Cell Biology and Department of Ophthalmology*)

**Paul T. Fullerton, Jr.**, Modeling the Heterogeneity of Human non-Hodgkin's lymphoma using the E $\mu$ -myc Murine Model of B-cell Lymphoma (*Dr. Joseph R. Nevins, Duke Institute for Genome Sciences and Policy*)

**Daniel J. Gillon**, Gene flow and local adaptation to climate change in two populations of the green sea urchin, *Strongylocentrotus droebachiensis* (*Dr. Gregory Wray and David A. Garfield, Department of Biology*)

**Karl Gordon Patti**, The Novel Protein Factor- $\theta$  is Important for Mesenchymal Stem Cell Reproduction (*Dr. Victor J. Dzau, Duke University Medical Center*)

**Caroline Hadley\***, AEOL 10150, a catalytic antioxidant shown to protect against radiation induced pulmonary toxicity, does not attenuate the cytotoxic effect of radiation in non-small cell lung cancer tumor xenografts (*Dr. Zeljko Vujaskovic, Department of Radiation Oncology, Duke University School of Medicine*)

**Huang (Maria) Huang**, The Role of the Type III Transforming Growth Factor (TGF)- $\beta$  Receptor in Multiple Myeloma (*Dr. Gerard Blobe, Department of Pharmacology and Cancer Biology, Duke University Medical Center*)

**Collin L. Kent**, Cellular Responses Involved in Posttraumatic Arthritis (*Dr. Farshid Gulak, Department of Orthopaedic Surgery, Duke University School of Medicine*)

**Andrew B. Kleist**, Identification of ligand bias at G protein-coupled receptors using a novel, cell-free approach (*Dr. Robert J. Lefkowitz, Department of Biochemistry, Duke University Medical Center*)

**Yun Long (Patrick) Lang**, Implication for synergy between constitutive Math1 expression and Ptc deletion in the tumorigenesis of medulloblastoma (*Dr. Robert Wechsler-Reya, Department of Pharmacology and Cancer Biology, Duke University Medical Center*)

**James Kwon Lee†**, The Will (*Josh Gibson, Film/Video/Digital Program*)

**George Leef**, Roles of Actin and Myosin II Proteins in Dorsal Closure in *Drosophila*: a Quantitative Analysis (*Dr. Daniel Kiehart, Department of Biology*)

**Charles Li**, Sporangiospore size dimorphism is linked to virulence of *Mucor circinelloides* (*Dr. Joseph Heitman and Dr. Soo Chan Lee, Department of Molecular Genetics and Microbiology, Duke University Medical Center*)

**Xiyao Wendy Lin**, The Role of the Cdc42 GTPase-activating protein Bem3 in gradient-tracking in yeast (*Dr. Daniel J. Lew, Department of Pharmacology and Cancer Biology, Duke University Medical Center*)

**Xiongfei Liu**, Prematurely terminated polypeptides are potential sources for rapidly degraded polypeptides (RDPs) (*Dr. Christopher Nicchitta, Department of Cell Biology, Duke University Medical Center*)

**Lina Lu**, Immunocellular Response in Peanut-Stimulated Human Peripheral Blood Mononuclear Cells in Subjects Undergoing Peanut Oral Immunotherapy (*Dr. Wesley Burks, Department of Pediatric Allergy and Immunology, Duke University School of Medicine*)

**Cassie A. Ludwig**, Smoothed Protein Mutation in Postnatal Neural Stem Cells Yields a New Mouse Model for Classical Human Medulloblastoma (Dr. Anne Buckley, Department of Pathology, Duke University Medical Center)

**Alice Mao**, The Role of Pro-inflammatory Cytokines Tumor Necrosis Factor- $\alpha$  and Interferon- $\gamma$  in Angiotensin II Induced Kidney Injury (Dr. Steven Crowley, Department of Medicine, Division of Nephrology, Duke University School of Medicine)

**Chun L. Ng**, A rescue screen to identify cell-autonomous requirements for Gp93 in *Drosophila melanogaster* gut development and function (Dr. Christopher Nicchitta, Department of Cell Biology, Duke University Medical Center)

**Miki Nishitani\***, The Regulatory Role of *ActivinB* in the Early Signal of Endomesoderm Specification in the Sea Urchin *Lytechinus variegatus* (Dr. David R. McClay, Department of Biology)

**Diana Norton**, Identifying Rga1 as the Cdc42-specific GTPase activating protein in *Cryptococcus neoformans* (Dr. J. Andrew Alspaugh, Division of Infectious Disease, Duke University School of Medicine)

**William Olcott**, Chlorpyrifos Induced Apoptotic Effects in the Eastern Oyster, *Crassostrea virginica*, (Dr. Patricia McClellan-Green, Department of Environmental and Molecular Toxicology, North Carolina State University)

**Smita Patel**, Bioinformatics Analysis Identifies Genes Coordinately Expressed with Brachyury and Reveals Putative Pathways Dysregulated in Chordoma (Dr. Michael Kelley and Dr. David Alcorta, Division of Medical Oncology, Duke University Medical Center; Department of Oncology/Hematology, Durham Veterans Administration Medical Center)

**Ralitzia H. Peneva**, Determining the size of the male-specific region in the genome of the scuttle fly, *Megaselia scalaris*, a potential model system for the earliest stages of sex chromosome evolution (Dr. Mohamed Noor, Department of Biology)

**Henry Pinkard**, Pitch balance in accelerating and decelerating primates (Dr. Daniel Schmitt, Department of Evolutionary Anthropology)

**Kathryn Saba**, Using Oral Immunotherapy Studies to evaluate the involvement of salivary antibody A in the allergic response to peanut (Dr. Wesley Burks and Michael Kulis, Department of Pediatrics/Allergy/Immunology, Duke University School of Medicine)

**Sunita Saith**, Genetic Regulation of SORL1 Gene Expression (Dr. Ornit Chiba-Falek, Duke Institute for Genome Sciences and Policy)

**Michael Schneider**, Characterization of MPER Transgenic Mice (Dr. Laurent Verkoczy, Duke Human Vaccine Institute, Duke University School of Medicine)

**Calvin C. Sheng**, Regulated expressions of FT and SOC1 by various flowering pathways contribute to local adaptation in *Mimulus* (Dr. John H. Willis, Department of Biology)

**Jeff J. Shi\***, Emerging patterns of microendemism in the rodent *Eliurus myoxinus* within Madagascar's threatened western forests (Dr. Anne Yoder, Department of Biology)

**Marni Siegel**, Personalized Therapeutic Approaches Using a Novel Pathway Classification Scheme in Lung Cancer (Dr. Joseph R. Nevins, Department of Molecular Genetics and Microbiology, Duke University Medical Center)

**Amanda Sun**, The Ethanol-Inducible Gene Silencing System as a Novel Approach for the Study of HEMERA's Role in Chloroplast Development (Dr. Meng Chen, Department of Biology)

**Kathryn Swails†**, Assessing Models of Carbon Offsetting in the DukeEngage Program (Dr. Charlotte Clark, Nicholas School of the Environment)

**Sumaetee Tangwancharoen**, Mapping the genetic basis of salt tolerance in Yellow Monkey Flower, *Mimulus guttatus* (Dr. John Willis, Department of Biology)

**Cole Thompson**, Disruption of Replication Fork Integrity in Yeast Facilitates Formation of Mutation Clusters (Dr. Dmitry Gordenin, Chromosome Stability Group [Head Dr. Michael Resnick], National Institute of Environmental Health Sciences)

**Emily Trinh**, Analysis Mating of *Cryptococcus neoformans* var *grubii*, molecular type VNII (Dr. Thomas G. Mitchell, Department of Molecular Genetics and Microbiology, Duke University Medical Center)

**Christopher Venters**, Preliminary Structural Studies of *Drosophila Melanogaster* Myosin VIIA Tail Domains (Dr. Daniel P. Kiehart, Department of Biology)

**Molly E. Walsh**, Hierarchical organization of sun, beach slope, and landmarks as cues for Y-axis orientation of the supratidal amphipod *Talorchestia longicornis* (Say) (Dr. Richard B. Forward, Jr., Duke University Marine Lab)

**Feng Wang**, The discrete localization of ezrin to the nuclei of the terminally differentiating lens fibers (Dr. Vasanth Rao, Department of Pharmacology and Cancer Biology, Duke University Medical Center)

**Bruce Xinyang Xu**, The impairment of ATP release in human erythrocytes during storage (Dr. Timothy McMahon, Division of Pulmonary, Allergy, and Critical Care Medicine, Duke University School of Medicine)

**Katherine Xu**, Kidney Cross-Transplantation: The Role of ACE2 in Blood Pressure Regulation (Dr. Thomas Coffman and Dr. Susan Gurley, Division of Nephrology, Department of Medicine, Duke University School of Medicine)

**George Yang**, Perturbation of CALM protein in murine leukemia affect proliferation in a transferrin endocytosis dependent manner (Dr. Daniel Wechsler, Department of Pharmacology and Cancer Biology, Duke University Medical Center)

\*High Distinction

†Graduation with Distinction (not within a major)