	GRADUATE STUDENTS	
1.	LOCKED OR FLEXIBLE? HETEROGENEITY IN THE PLASTICITY OF SEXUAL STATE IN THE C. ELEGANS	
	NERVOUS SYSTEM	
	JIARUI RYAN ZHANG, Carlos Diaz-Balzac, Douglas S. Portman	
	Biology OBELISKS: PLASMID-LIKE RNA ELEMENTS WHICH REPLICATE IN PROKARYOTES	
2.	MAEDEH AGHAHOSSEINI‡, Michael Lutz ‡, Keegan Proctor, Paul Boutz, Kai-Lieh Huang, Eric Wagner and Andrew Varble*	
	Microbiology & Immunology	
	I-DO OR I-DO NOT: DECIPHERING THE ROLE OF TRYPTOPHAN CATABOLISM IN IMMUNE TOLERANCE	
3.	DURING PREGNANCY	
	JACKIE AGYEMANG, Jasmine Reed, Phillip Spinelli, Harshavardhan Lingegowda, and Martha Susiarjo	
	Environmental Medicine ELUCIDATION OF GLUTATHIONE-RELATED DIPEPTIDE METABOLISM IN CANCER	
	FATEMEH ALIMOHAMMADI, Fabio Hecht, Marco Zocchi, Emily Tuttle, Gloria Asantewaa, Nathan	
4.	Ward, Gina DeNicola, Joshua Munger, Isaac Harris	
	Biomedical Genetics	
	DETERMINING THE EFFECTS OF INTEGRATOR SUBUNIT11 EFFECTS ON INTEGRATOR FUNCTION AND	
5.	NEURONAL DEVELOPMENT	
J.	ALISSA C. BEAM, MaryClaire Haseley, Kai-Lieh Huang, Eric J. Wagner Biochemistry	
	Environmental Medicine	
	PERFLUOROOCTANOIC ACID: A POTENTIAL ENVIRONMENTAL MODULATOR OF GESTATIONAL	
6.	DIABETES MELLITUS KNICKOLE L. BERGMAN, Mary Jerred, Ashley Fields, Phillip Spinelli, Clementina Mesaros, Martha	
	Susiarjo	
	DEVELOPING AN ASPARTATE SENSOR FOR IN VIVO VISUALIZATION OF METABOLIC CHANGES	
7.	DURING CELL LINEAGE DIFFERENTIATION	
	CARL BERGGREN, Marlies Rossmann	
	Biomedical Genetics UNVEILING IDO1-IDO2 IMPRINTING REGULATION IN THE PLACENTA-KEY PLAYERS OF MATERNAL-	
	FETAL IMMUNE TOLERANCE	
8.	NEHA BIJU, Madeline O'Connell, Phillip Spinelli, Jasmine Reed, Martha Susiarjo	
	Biomedical Genetics	
	IMPORTIN 9'S ROLE IN HISTONE REGULATION DURING DROSOPHILA OOGENESIS AND	
9.	EMBRYOGENESIS	
	M.NADUNI DE SILVA, Asmita Dutta, Michael A. Welte	
	Biology	

	THE INFLUENCE ON TRANSCRIPTION AND TRANSLATION BY THE TRMT1 TRNA MODIFICATION
10.	ENZYME
	CHENGHONG DENG, Kejia Zhang, Dragony Fu
	Biology SEGREGATION DISTORTER AND THE REGULATION OF SATELLITE DNAS
11.	LOGAN EDVALSON, Xiaolu Wei, Amanda Larracuente
	Biology
	DEPLETION OF THE LONG NON-CODING RNA NEAT1 INCREASES PANCREATIC CANCER CELL
	SENSITIVITY TO FERROPTOSIS
12.	DAKARAI ESGDAILLE, Zamira Guerra Soares, PhD, Krista Pipho, Fabio Hecht Castro Medeiros PhD, Sara
	Blick-Nitko PhD, Kai-Lieh Huang PhD, Eric Wagner PhD, Isaac Harris PhD, Paul Boutz PhD, Stephano Spano Mello PhD
	Biomedical Genetics
	EFFECT OF CHROMATIN STRUCTURE ON TRANSCRIPTIONAL DYNAMICS AT CGI PROMOTERS
13.	MCKAYLA FORD, Paula Vertino
	BGG THE ROLE OF CROSSTALK BETWEEN MDS CELLS AND THE BONE MARROW ENDOTHELIAL NICHE ON
	DISEASE PROGRESSION
14.	EDGARDO I. FRANCO, Christina M. Kaszuba, Benjamin J. Rodems, Sonali Sharma, Omar Abdel-Wahab,
	and Jeevisha Bajaj
	Biomedical Engieering NATURAL AND NON-NATURAL TRNA SUPPLEMENTATION INDUCES FUNCTIONAL CHANGE IN
	ENDOGENOUS CFTR CHANNEL EXPRESSION
15.	JEFFREY GABELL, Joseph Porter, John Lueck
	Biochemistry & Biophysics
	FERROPTOSIS AS A CAUSE OF ANEMIA INDUCED BY DHODH INHIBITORS
16.	SALOME GHVINEPHADZE, Patrick R. Hodgson, Kathleen E. McGrath, Paul D. Kingsley, James Palis,
	Marlies P. Rossmann
	Translational Biomedical Science THE STING OF THE NIGHT: GENETIC KEY TO BAT LONGEVITY? THE ROLE OF STING \$357 IN
4-	CYTOSOLIC DNA RESPONSE
17.	JING GUO, Alice Lin, Vera Gorbunova
	BGG, Biomedical Genetics
18.	INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 7 (IGFBP7) PROMOTES SKIN FIBROSIS AND PULMONARY HYPERTENSION AND MAY SERVE AS A BIOMARKER IN SYSTEMIC SCLEROSIS
	GAYATHRI GURU MURTHY, YeJin Jeong, Stacey Duemmel, Benjamin Korman Translational Biomedical Sciences PhD Program; Department of Medicine- Allergy, Immunology and
	Rheumatology Division

CAV1.1 DYSFUNCTION WORSENS RESPIRATORY FUNCTION IN THE MBNL1KO MODEL OF DM1
SAKURA HAMAZAKI, Matthew Sipple, Lily Cisco, Jennasea Licata, Katherine Lupia, Zhenzhi Tang, Charles Thornton, John Lueck Biology
DIRECTED EVOLUTION OF AAV5 COMBINED WITH GLYMPHATIC DELIVERY RESULTS IN SELECTIVE TARGETING OF HUMAN GLIAL PROGENITOR CELLS <i>in vivo</i>
ALEXANDER CONA, Abdellatif Benraiss, Steven A. Goldman Biomedical Genetics and Genomics
TAURINE CAN ACCELERATE ACUTE MYELOID LEUKEMIA PROGRESSION
CHRISTINA M. KASZUBA, Sonali Sharma, Benjamin J. Rodems, Cameron D. Baker, Edgardo I. Franco, Laura M. Calvi, John M. Ashton, Jeevisha Bajaj. Biomedical Engineering
CHARACTERIZATION AND FUNCTION OF A NOVEL INTEGRATOR-ASSOCIATED COMPLEX
ABBY L. MANNING, Kai-Lieh Huang Ph.D., Liang Tong Ph.D., Eric J. Wagner Ph.D. Biochemistry and Biophysics
HUNGER MODULATION OF A SENSORIMOTOR CIRCUIT
GLADYS LEITCH, Gabriella Sterne Biomedical Genetics
DEFICIENCY OF A TRNA MODIFICATION ENZYME INDUCES GLIAL ABUNDANCE CHANGES IN THE MAMMALIAN BRAIN
CAILYN LEO, Kejia Zhang, Hanna Wang, Grace Yang, and Dragony Fu Biology
MYC AND EPITHELIAL TO MESENCHYMAL TRANSITION INDEPENDENTLY PREDICT CIRCADIAN DISRUPTION IN LUNG ADENOCARCINOMA
JAMISON B BURCHETT, Aslihan Petenkaya, McKayla Ford, Jacob Cody Naccarato, Fabio Hecht, Molly Hulver, Xueyang He, Brian J Altman Biomedical Genetics
STUDYING MODIFICATIONS IN A BRAIN-ENRICHED tRNA ISODECODER
KAUSHANI MISRA*, Kejia Zhang, Dragony Fu Biomedical Genetics and Genomics
VIRTUAL PATHOLOGY: AI APPROACHES TO IMAGE ANALYSIS IN QUPATH
CODY NACCARATO, Brian Altman Pathology
PLACENTAL DNA METHYLATION OF STRESS-LINKED GENES PREDICTS INFANT STRESS RESPONSE
NAFISA NAWAL ISLAM, Susan K Murphy, Carole Grenier, Qiuyi Wu, Xing Qiu, Jessica Brunner, Richard K Miller, Emily S Barrett, Junfeng Zhang, David Q Rich, Thomas G O'Connor Translational Biomedical Science

29.	MATERNALLY EXPRESSED REPETITIVE DNAS REMAIN ACTIVE FOLLOWING FERTILIZATION AND THEIR SILENCING PERMITS GENIC EXPRESSION
	DUY NGUYEN, Patrick Murphy
	Pathology, Biomedical Genetics
30.	THE CARDIAC LNCRNA CARDINAL CO-OCCUPIES SRF-REGULATED GENE PROMOTERS
	JESSICA PERCIACCANTE, Priyanka Shandilya, Tamlyn N. Thomas, Douglas M. Anderson BGG
	DECONVOLUTING ANP32E FUNCTION IN H2A.Z-DEPENDENT GENE ACTIVITY DURING EARLY
24	DEVELOPMENT
31.	NOAH REGER, Patrick Murphy, Michael Welte Biology
	DOES MANGANESE TOXICITY REQUIRE PERMIT TO DESTROY? UNDERSTANDING THE CROSSTALK
	BETWEEN PEROXISOME AND MITOCHONDRIA IN METAL-INDUCED NEUROTOXICITY
32.	PABLO REINA-GONZALEZ, YUNJIA LAI, MUHAMMET AY, ABDULLA ABU-SALAH, AIESHA ANCHAN, SOUVARISH SARKAR
	Environmental Medicine
	THE ROLE OF IMPORTIN ALPHA 2 IN ACTIN ORGANIZATION DURING DROSOPHILA OOGENESIS AND
22	EARLY EMBRYOGENESIS
33.	ALICIA SHIPLEY, Roger White, Pakinee Phromsiri, Michael Welte
	Biology
	EXAMINING THE FUNCTIONS OF THE KDM5 DEMETHYLASES IN LUMINAL BREAST CANCER
34.	ZACHARY SMITH, Christina Davidson, Ching-Hua Shih, Paula Vertino
	Biochemistry
	ESSENTIAL ROLE OF ENDOTHELIAL MTORC1/RAPTOR IN MAINTAINING LUNG VASCULAR BARRIER INTEGRITY
35.	IMRAN TAHIR, Arshad Rahman
	Pediatrics (Neonatology)
	ELUCIDATING THE DRIVERS OF SEX-SPECIFIC PROGRAMMING IN CAENORHABDITIS ELEGANS SEX- SHARED SENSORY NEURONS
36.	
	ZACHARY C. WARD, Carlos A. Diaz-Balzac, Kelli A. Fagan, Douglas S. Portman Biomedical Genetics
	INHIBITORY RECIPROCAL CIRCUIT MOTIFS IN TASTE PROCESSING
27	
37.	JONATHAN WILLIAMS, Attilio Ceretti, Gabriella Sterne
	Biomedical Genetics and Genomics, Neuroscience
38.	EFFECTS OF IGE-MEDIATED ALLERGIC STIMULATION ON MEMORY CD4 T CELL ACTIVATION AND EFFECTOR FUNCTION
36.	JINGYI WU, Regina K. Rowe, Bailey Matthews
	Biomedical Genetics and Genomics

Monday, April 28th, 2024

	TRANSIENT SPRR1A EXPRESSION DEFINES A POPULATION OF BORDER ZONE CARDIOMYOCYTES THAT SURVIVE ISCHEMIC INJURY
39.	EMILY H. MARSHALL*, Daniel A. Zuppo*, PhD, BS, Kimberly N. Burgos Villar*, PhD, Adwiteeya Misra, MD, PhD, Ronald A. Dirkx, Jr., BS, and Eric M. Small, PhD

Biomedical Genetics and Genomics

	<u>POSTDOCS</u>
	SEX DIFFERENCES IN CONTEXT-DEPENDENT PERSISTENT BEHAVIORAL STATES IN C. ELEGANS
40.	CHANCE BAINBRIDGE, Gregory Reilly, Jinxin Wang, Douglas Portman
	Biomedical Genetics
	REACHING TOWARD AN UNDERSTANDING OF DIRECTED REACHING
41.	Attilio Ceretti, Gabriella Sterne
	Department of Biomedical Genetics
	TREATMENT OF A SEVERE MYOTONIC DYSTROPHY TYPE I MOUSE MODEL WITH VERAPAMIL,
42.	AMLODIPINE, AND RANOLAZINE.
	LILY CISCO, Sakura Hamazaki, Matthew Sipple, Katherine Lupia, Johanna Hamel, Charles Thornton,
	John Lueck
	Pharmacology and Physiology
	ENHANCER EVOLUTION UNDERLYING PEA APHID WING DIMORPHISMS
43.	KEVIN DEEM, Jenn Brisson
	Biology
	BISPHENOL A DISRUPTS IMMUNE HOMEOSTASIS IN THE UTERUS DURING THE PRE-IMPLANTATION
44.	PERIOD
44.	HARSHAVARDHAN LINGEGOWDA, Philip Spinelli, Jackie J. Agyemang, Martha Susiarjo
	Environmental Medicine

	<u>UNDERGRADUATE STUDENTS</u>
	IMPROVING ACCURACY OF SEX IMPUTATION IN PEDIATRIC SINGLE-CELL DATASETS USING SPECIFIC
45.	Y-CHROMOSOME GENE EXPRESSION
	ASHAY NARAYANA, Rachel Simpson MD, PhD, Natalie Vance MS, Juilee Thakar PhD
	Microbiology
	USE COEVOLUTION TO STUDY NOVEL PROTEIN INTERACTIONS AND FUNCTIONS
46.	ZHI QU, John H. Werren
	Department of Biology
	MODIFICATIONS AND ROLES OF IMPORTINA2 IN EARLY DROSOPHILA DEVELOPMENT
47.	ZOE STANLEY, Alicia Shipley, Asmita Dutta, Michael Welte
	Biology

48.	INFLAMMATORY AND OXIDATIVE EFFECTS DUE TO COMMERCIALLY AVAILABLE BRANDS OF PROPYLENE GLYCOL (PG) AND VEGETABLE GLYCERIN (VG) - COMMON HUMECTANTS IN ELECTRONIC CIGARETTES
	YEHAO SUN, Gagandeep Kaur, Felix Effah, and Irfan Rahman
	Department of Environmental Medicine, University of Rochester Medical Center, Rochester, NY
	14642, USA
	THE WHEN AND HOW OF PARASITIC MANIPULATION
49.	NATASHA VACCA, Valeria Padilla-Choy, Juan Martín Ferro, Floria M.K. Uy
	Biology
	NOTCH1 ACTIVATION IN ENDOTHELIAL CELLS DRIVES HEART FAILURE AND METABOLIC DISORDERS
50.	TENGGE WANG, Laith Awad Mohamad, Shumin Wang, Jasmine J Xu, Ryan Chen, Sofia Gonzalez Landa,
	Yara Rose, Sara Ture, Craig N. Morrell, Jinjiang Pang
	Aab Cardiovascular Research Institute
	INVESTIGATING CANDIDATE MITOCHONDRIAL PROTEIN INTERACTIONS PREDICTED BY
51.	COEVOLUTION
	YINGJIA WU, John H. Werren, Alec Kingsley
	Department of Biology, University of Rochester

	STAFF	
	NEURAL REPRESENTATIONS OF SENSORY QUALITY IN VALUE-BASED DECISION MAKING	
52.	SARAH CHIARADONNA, Yoshinori Aso, Gabriella Sterne	
	Biomedical Genetics	
	EVOLUTIONARY ANALYSES PREDICT NOVEL NUCLEAR-MITOCHONDRIAL PROTEIN INTERACTIONS	
53.	John H. Werren, ALEC KINGSLEY, Zhi Qu, and Yingjia Wu	
	Biology	
	A PIPELINE TO ANALYZE UNTARGETED METABOLOMICS DATA	
	PATRICK R. HODGSON, Carl A. Berggren, Salome Ghvinephadze, Carter Long, Xiaolu Wei, Julie A. Reisz,	
54.	Angelo D'Alessandro, Seong-Hwan Jun, Paul S. Brookes, Phillip Seitzer, Matthew McCall, Marlies P.	
	Rossmann	
	Biomedical Genetics	
55.	DELETION OF MTOR IN TYPE I EPITHELIUM VIA A GENE TRANSFER APPROACH MITIGATES ACUTE	
	LUNG INJURY	
	MOHAMMAD SHADAB, Michelle. W. Millar. Rauf A. Najar, Imran Tahir, Fabeha Fazal, David A. Dean,	
	Arshad Rahman	
	PEDIATRICS	
	THE ROLE OF DYNEIN AXONEMAL HEAVY CHAIN 2 IN PULMONARY ARTERIAL HYPERTENSION	
56.	SHUMIN WANG, Saquib Lakhani, Kate Ackerman, Joseph Kuebler, Philip Katzman, Ryan Chen, Tengge	
	Wang, Tiffany Nguyen, Sofia Gonzalez Landa, Jinjiang Pang	
	CVRI	

FACULTY NTEGRATIVE GENOMICS AND EPIGENOMICS REVEAL CONVERGENT CODING AND REGULATORY **VARIANTS** HONGBO Liu, Amin Abedini, Eunji Ha, Ziyuan Ma, Xin Sheng, Bernhard Dumoulin, Chengxiang Qiu, Tamas Aranyi, Shen Li, Nicole Dittrich, Hua-Chang Chen, Ran Tao, Der-Cherng Tarng, Feng-Jen Hsieh, Shih-Ann Chen, Shun-Fa Yang, Mei-Yueh Lee, Pui-Yan Kwok, Jer-Yuarn Wu, Chien-Hsiun Chen, Atlas Khan, Nita A Limdi, Wei-Qi Wei, Theresa L Walunas, Elizabeth W Karlson, Eimear E Kenny, Yuan Luo, Leah Kottyan, John J Connolly, Gail P Jarvik, Chunhua Weng, Ning Shang, Joanne B Cole, Josep M 57. Mercader, Ravi Mandla, Timothy D Majarian, Jose C Florez, Mary E Haas, Luca A Lotta, Regeneron Genetics Center, GHS-RGC DiscovEHR Collaboration, Theodore G Drivas, Penn Medicine BioBank, Ha My T Vy, Girish N Nadkarni, Laura K Wiley, Melissa P Wilson, Christopher R Gignoux, Humaira Rasheed, Laurent F Thomas, Bjørn Olav Åsvold, Ben M Brumpton, Stein I Hallan, Kristian Hveem, Jie Zheng, Jacklyn N Hellwege, Matthew Zawistowski, Sebastian Zöllner, Nora Franceschini, Hailong Hu, Jianfu Zhou, Krzysztof Kiryluk, Marylyn D Ritchie, Matthew Palmer, Todd L Edwards, Benjamin F Voight, Adriana M Hung, Katalin Susztak Department of Biomedical Genetics **BIOBANK SHARED RESOURCE** 58. BRADLEY MILLS, Jennifer Twardowski, Zoe Tomlinson, Irena Stefankiv Wilmot Cancer Institute