

NIH Summer Research Program Poster Day 2012

Morning Session	AM	9:00 am – 11:00 am
Lunch Session	LCH	11:00 am – 1:00 pm
Afternoon Session	PM	1:00 pm – 3:00 pm

NOTE: the complete program for Summer Poster Day 2012, including poster titles, can be found at https://www.training.nih.gov/assets/2012_Summer_Poster_Day_Program.pdf.

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AM	Clinical Center (CC)	1 - 37
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PM	National Center for Advancing Translational Sciences (NCATS)	58
AM	National Center for Complementary and Alternative Medicine (NCCAM)	59
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LCH	National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI-DCEG)	214 - 231
AM	National Eye Institute (NEI)	232 - 263
PM	National Human Genome Research Institute (NHGRI)	264 - 297
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AM	National Institute of Biomedical Imaging and Bioengineering (NIBIB)	448 - 472
	<i>Eunice Kennedy Shriver</i>	
PM	National Institute of Child Health and Human Development (NICHD)	473 - 534
PM	National Institute on Drug Abuse (NIDA)	535 - 589
PM	National Institute on Deafness and Other Communication Disorders (NIDCD)	590 - 596
PM	National Institute of Dental and Craniofacial Research (NIDCR)	597 - 614
PM	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	615 - 650
AM	National Institute of Environmental Health Sciences (NIEHS)	651 - 652
AM	National Institute of Mental Health (NIMH)	653 - 680

AM	National Institute of Neurological Disorders and Stroke (NINDS)	681 - 744
AM	National Institute of Nursing Research (NINR)	745 - 747
AM	National Library of Medicine (NLM)	748
LCH	Office of the Director / Office of Intramural Research (OD)	749 - 754

Clinical Center (CC)

1. Jennifer Arai

Evaluation of the NIH Clinical Center DCRI's SharePoint Website
Montgomery Blair High School (Maryland)
Preceptor: Dr. Jon McKeeby

2. Zahra Ashktorab

Reproducing 3D Tumor and Organ Segmentation from Commercial Workstations
University of Maryland (Maryland)
Preceptor: Dr. Jack Yao

3. Ben Ayotte

The role of B-Raf mutation in the immune landscape of melanoma
Northern Michigan University (Michigan)
Preceptor: Dr. Francesco Marincola

4. Allison Baumgartner, Pranav Rao

Development and Analysis of Cinacalcet Capsules for Safety and Tolerability in Pediatric Patients
King's College (Pennsylvania), Northwest High School (Maryland)
Preceptors: Mr. Ram Agarwal, Dr. Peng Yuan

5. Christiana Booher

Sclerotic Skin Chronic Graft-versus-Host Disease: An Assessment of Functional and Quality of Life Measures
Christopher Newport University (Virginia)
Preceptor: Ms. Leora Comis

6. Victoria Chen

Role of IL-17 isoforms in the co-culture of leukemia cell lines and bone marrow stromal cells
Richard Montgomery High School (Maryland)
Preceptor: Dr. Ping Jin

7. Michael Choi

Volumetric Tumor Segmentation for Disease Progression Analysis in Metastatic Melanoma
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptor: Dr. Aradhana Venkatesan

8. Bailey DeBarmore

Analyzing the Feasibility, Efficiency, and Accuracy of Adapting a Metabolic Research Kitchen to a Computerized Scale System: ProNESSy vs Manual Weighing
Cornell University (New York)
Preceptor: Mrs. Merel Kozlosky

9. Michael Eby

PET Imaging of Atherosclerosis
Georgetown University School of Medicine (District of Columbia)
Preceptor: Dr. Elizabeth Jones

10. Elizabeth Heitkemper

The Role of the Clinical Research Nurse: A Global Comparison
University of Texas at Austin (Texas)

Preceptors: Dr. Clare Hastings, Dr. Cheryl Fisher

11. Shane Johnson

A Qualitative Review of End of Life Care Competency

University of the District of Columbia Community College (District of Columbia)

Preceptors: Mrs. Tye Mullikin, Ms. Christine McGowan

12. Christopher Julien

Analysis of Bone Marrow using an Automated Hematology Enumeration Instrument

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Catherine Kalvo

13. Christine Kim

Observational Study of Lymphadenopathy on Body CT

Georgetown University School of Medicine (District of Columbia)

Preceptor: Dr. Jiamin Liu

14. Steven Kozusko

Ionizing Radiation Exposure & Interventional Radiology

Georgetown University School of Medicine (District of Columbia)

Preceptor: Dr. Elliot Levy

15. Kevin Lam

Full Length Nucleotide Sequence of SLC44A2 alleles encoding human neutrophil antigen-3 in African Americans

James Hubert Blake High School (Maryland)

Preceptors: Dr. Willy Flegel, Dr. Qing Chen

16. Olivia Lardo

Diffuse myocardial fibrosis detection by CT using a low radiation dose technique

University of Maryland, College Park (Maryland)

Preceptor: Dr. David Bluemke

17. Steven Leung

Development of an Image-Based Method to Estimate Internal Radiation Exposure

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Roberto Maass-Moreno

18. Lauren Levy

Validating a Three-Dimensional Method for Imaging Carotid Atherosclerosis

Walt Whitman High School (Maryland)

Preceptor: Dr. Christopher Sibley

19. Diana Li

Experimental Validation of Area under ROC Optimization Based on Ranking of Training Samples

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Shijun Wang

20. Jessica McKinley

Understanding Mastocytosis

Texas Woman's University (Texas)

Preceptor: Ms. Daly Cantave

21. Neil Mendhiratta

Joint Segmentation of Anatomical and Functional Images from MRI-PET Images
New York University School of Medicine (New York)
Preceptors: Dr. Daniel Mollura, Dr. Ulas Bagci

22. Adela Miller

BMSCs and Coagulation Factor VIII
University of Colorado, Boulder (Colorado)
Preceptor: Dr. Ping Jin

23. Lara Mitra

Loneliness in Cancer Caregivers: Related Factors and Potential Health Effects
Stanford University (California)
Preceptor: Dr. Margaret Bevans

24. Heather Moorman

Clinical Research Nursing: Discovering Career Pathways
Georgetown University (District of Columbia)
Preceptors: Dr. Clare Hastings, Dr. Cheryl Fisher

25. Joseph Mozingo

Glenohumeral Deformity in Children with Brachial Plexus Palsy: Validity and Reliability of 2D and 3D Measures
University of Rochester (New York)
Preceptors: Dr. Sylvain Brochard, Dr. Frances Gavelli

26. Yolanda Murphy, Michelle Stakem

Social Work Risk-Screening in an Acute Care Setting
Howard University (District of Columbia), Christopher Newport University (Virginia)
Preceptors: Dr. Adrienne Farrar, Mrs. Jeasmine Aizvera

27. Nina Mai Lan Nguyen May

Cognitive Pattern Recognition and Data Visualization as a Joint Method for Enhancing Longitudinal Medical Research
University of California, Los Angeles (California)
Preceptor: Dr. James Cimino

28. Danelvis Paredes

CNR1 Expression in Human Brain Development and Schizophrenia
University of Puerto Rico, Mayagüez (Puerto Rico)
Preceptor: Dr. Joel Kleinman

29. Jacqueline Pohida

The Effect of Blue Light on Patients in a Health Care Setting
Linganore High School (Maryland)
Preceptor: Ms. Diane Lawrence

30. Briana Robertson

Alkaptonuria
KIPP DC: College Preparatory School (District of Columbia)
Preceptor: Ms. Raven McGlotten

31. Jose Salazar

Simplifying Omics Analysis: A First Look Using Microarray Data and Phylogenetic Analysis Methods

Poolesville High School (Maryland)
Preceptor: Dr. James DeLeo

32. Channing Scott

You Diabetes and Your Patients
Hampton University (Virginia)
Preceptor: Mrs. Sharon Tayviah

33. Saad Soufi

Improving Production Rate of Pb-203 at the NIH Cyclotron Facility
University of Toronto (Non-U.S.)
Preceptor: Dr. Lawrence Szajek

34. Katherine Tran

Biomarkers Associated with Bone Marrow Stromal Cell Confluence
Johns Hopkins University (Maryland)
Preceptors: Dr. David Stroncek, Dr. Jiaqiang Ren

35. Hanna Tso

Does exogenous insulin induce weight gain in healthy people?
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Kristina Rother, Dr. Jim DeLeo

36. Melinda Wang

Profiling Human KIT Pathway Somatic Mutations in Mastocytosis Patients Using PCR Arrays
Williams College (Massachusetts)
Preceptor: Dr. Irina Maric

37. William Young

Missing Themes in the Psychological Assessment of Cancer Survivors
Catholic University of America (District of Columbia)
Preceptor: Dr. Ann Berger

Center for Information Technology (CIT)

38. Ryan Kuo

Towards Automated Detection of Lysosomes in Confocal Microscopy Using Machine Learning Techniques
Thomas S. Wootton High School (Maryland)
Preceptors: Dr. Calvin Johnson, Mr. William Lau

39. Sara Shen

Enhancing user feedback to iteratively improve image processing in MIPAV
University of Maryland, College Park (Maryland)
Preceptors: Mr. Justin Senseney, Dr. Matthew McAuliffe

40. Jackson Turbeville

The Role of the Infralimbic Cortex in Pavlovian Conditioning of Rhesus Monkeys: Development of an Electrocardiograph Quality Indicator
Clemson University (South Carolina)
Preceptors: Mr. Tom Pohida, Mr. John Kakareka

Food and Drug Administration (FDA)

41. Katie Barufka, Neil Davey

Non-apoptotic functions of endonuclease G and the role in virulence of the protozoan parasite Leishmania mexicana

Langley High School (Virginia), Montgomery Blair High School (Maryland)

Preceptors: Dr. Sreenivas Gannavaram, Dr. Alain Debrabant

42. Nikita Chadha, Simran Gupta

Towards Quantitative Imaging of NT2 Embryonal Carcinoma Cells Differentiated into a Neuronal Phenotype

Virginia Polytechnic Institute and State University (Virginia), Sherwood High School (Maryland)

Preceptor: Dr. Jennifer Catalano

43. Lina Chhuy-Hy

Spacial and Temporal Expression of Pro-EGF (Epidermal Growth Factor Precursor) in Xenopus Early Development

James Madison University (Virginia)

Preceptor: Dr. John Thomas

44. Neil Davey

Restoration of Ufm1 mediated protein conjugation in Leishmania donovani null mutants lacking Ufm1 and its processing enzyme Ufsp

Montgomery Blair High School (Maryland)

Preceptors: Dr. Sreenivas Gannavaram, Dr. Hira Nakhasi

45. John Farrell

Impact of Rejuvenation on Physical Stress Resistance of Male and Pre-Menopausal Female Red Blood Cells during Storage

University of Vermont (Vermont)

Preceptor: Dr. Monique Gelderman

46. Sarah Fisher

Plasmid construct preparation for targeted gene deletion of Leishmania mexicana and Leishmania major Argininosuccinate synthase

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Robert Duncan, Dr. Ines Elakhel Naouar

47. John Foley

Isolation of RNA from West Nile Virus Using a Novel Magnetic Bead-Based Method

Vanderbilt University (Tennessee)

Preceptors: Dr. Maria Rios, Dr. Caren Chancey

48. Petar Georgiev

Videomicroscopic Analysis of Proteolytic Activity in Growing Blood Clots

Georgetown University (District of Columbia)

Preceptor: Dr. Mikhail Ovanesov

49. Wesley Jong

Investigation of Alpha-1 Proteinase Inhibitor

University of Maryland (Maryland)

Preceptor: Dr. Ewa Marszal

50. Amritanshu Joshi

Plasmid construct preparation for targeted gene deletion of Leishmania mexicana and Leishmania amazonensis p27

University of Miami (Florida)

Preceptors: Dr. Robert Duncan, Dr. Ranadhir Dey

51. Amit Kaul

Using pathogen specific aptamers to facilitate drug discovery for Chagas disease

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Alain Debrabant, Dr. Rana Nagarkatti

52. Neelankshi Kaul

Functional characterization of Ufm1 associated peptidase Ufsp in the protozoan parasite Leishmania donovani

University of Virginia (Virginia)

Preceptors: Dr. Sreenivas Gannavaram, Dr. Hira Nakhasi

53. Jacob Miller

Effect of Neisseria meningitidis PorB Variation on Outer Membrane Protein Expression: A Laboratory Investigation of the Natural History of Antigenic Diversity

College of the Holy Cross (Massachusetts)

Preceptors: Dr. Margaret Bash, Ms. Lilian Amer

54. Sarah Pariser

Development of a Novel Apoptosis Assay for the Evaluation of Anti-cancer Drug Products

St. Stephen's & St. Agnes School (Virginia)

Preceptor: Dr. Baolin Zhang

55. Janvi Raichura

Effects of Human Haptoglobin in Reducing Oxidative Stress by Free Hemoglobin in a Mouse Model of Sick Cell Anemia

Montgomery Blair High School (Maryland)

Preceptor: Dr. Dominador Manalo

56. Carter Wonnacott

Identification and Characterization of Intraleukin 13 Receptor Expression in Human Cancer Cells by Highly Sensitive Multiplex Immuno-histochemical Technology

Quince Orchard High School (Maryland)

Preceptors: Dr. Bharat Joshi, Dr. Raj Puri

57. Toni Zhang

Generation of antigen-specific CD8+ Foxp3+ regulatory T cells in diabetes-prone mice

University of Maryland, College Park (Maryland)

Preceptor: Dr. Cheng-Hong Wei

National Center for Advancing Translational Sciences (NCATS)

58. Charles Eyermann

Development of Small Molecule Modulators of the Vitamin D Receptor

Lincoln-Sudbury Regional High School (Massachusetts)

Preceptor: Dr. Ajit Jadhav

National Center for Complementary and Alternative Medicine (NCCAM)

59. Kirsten Bondalapati

Complementary and alternative medicine use among adults with attention-deficit hyperactivity disorder: Findings from the national health interview survey

Rollins School of Public Health at Emory University (Georgia)

Preceptor: Dr. Richard Nahin

National Cancer Institute (NCI)

60. Isha Agarwal

Sos1 acts as both a RasGEF and as a scaffold for LAT clustering

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Lawrence Samelson, Dr. Robert Kortum

61. Neelesh Agarwal

Serial Tumor Biopsies: Translational Analysis of a Clinical Trial of Carboplatin with Olaparib

Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Elise Kohn, Dr. Minxu Yu

62. Ida Ahmadizadeh

Prevalence of Monoclonal Gammopathy of Undetermined Significance (MGUS) Among African Americans, Mexican Americans, and Whites in the United States

University of Michigan (Michigan)

Preceptor: Dr. Ola Landgren

63. Maham Ahmed

Image Analysis Platform for Studying Tissue Organization Across Spatio-temporal Scales

Oakdale High School (Maryland)

Preceptors: Mr. Kaustav Nandy, Dr. Prabhakar Gudla

64. Oluwatobi Alawode

Combined Affect of Topoisomerases and Certain Drugs on Cancerous Cells

McDonogh School (Maryland)

Preceptors: Dr. Yves Pommier, Dr. Keli Agama

65. Cassidy Alexandre

Functional Implications of a Germline Variant in miR-608 in Lung Cancer

Stony Brook University School of Medicine (New York)

Preceptors: Dr. Brid Ryan, Dr. Ana Robles

66. Maryam Alimirah

Characterization of BRCT Binding Modules

University of Chicago (Illinois)

Preceptor: Dr. Jamaine Davis

67. Rina Allawh

Skinning the Surface of Bone Abnormalities in Trichothiodystrophy

George Washington University School of Medicine (District of Columbia)

Preceptors: Dr. Kenneth Kraemer, Dr. John DiGiovanna

68. Kahtan Alsaedi

Analysis of the effect of IL-6 and STAT3 acetylation on C/EBP δ expression: Possible implications for the regulation of cell death and epithelial-mesenchymal transition in breast epithelial cells.

Queens College (CUNY) (New York)

Preceptors: Dr. Esta Sterneck, Dr. Balamurugan Kuppusamy

69. Shiva Ambarder

Fine Structure Analysis of HIV Populations

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Frank Maldarelli

70. Michael Andrews

Optimization of Expression Microdissection on Using Laser Dissection Microscopes

John F. Kennedy High School (Maryland)

Preceptors: Mr. Jeffrey Hanson, Dr. Michael Emmert-Buck

71. Bernadine Ang

Bioactive Food Components of the Mediterranean Diet and its Nutrigenetic Implications on Colorectal Cancer Prevention: A Nutrition Review.

Johnson and Wales University (Rhode Island)

Preceptor: Dr. Nancy Emenaker

72. Kunal Angra

Xeroderma Pigmentosum in a Patient of Amish Descent

University of Chicago (Illinois)

Preceptors: Dr. Kenneth Kraemer, Dr. John Digiovanna

73. Joseph Aryankalayil

High throughput RNAi Screen to identify human kinases involved in glioblastoma proliferation

New York University (New York)

Preceptor: Dr. Anita Tandle

74. Omobolanle Ayo-Ani

Variation of Radiation Dose Reduction through mA Modulation in Different Manufacturers

Madeira School (Virginia)

Preceptor: Dr. Choonsik Lee

75. Towqir Aziz

Role of the NADPH Oxidase NOX4 in Radiation-Induced DNA Damage

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Urbain Weyemi

76. Jenny Barriga

Regulation of Cell Division in Bacillus subtilis

Dodge City Community College (Kansas)

Preceptors: Dr. Kumaran Ramamurthi, Dr. Prahathees Eswara Moorthy

77. Colleen Berringer

Structure and function of Hsp90 molecular chaperone from E.coli

Towson University (Maryland)

Preceptors: Dr. Olivier Genest, Dr. Sue Wickner

78. Mohit Bisht

An automated tool for functional analysis of gene lists using Cytoscape

University of Maryland, College Park (Maryland)

Preceptor: Dr. Uma Shankavaram

79. Aditya Biswas

Positioning Analysis of Escherichia coli Chromosome by Fluorescent Microscopy

Northwest High school (Maryland)

Preceptor: Dr. Zhong Qian

80. Matthew Blackburn

Exploring the Role of miR135b in Inflammatory Bowel Disease and Cancer

Loyola University Maryland (Maryland)

Preceptor: Dr. Aaron Schetter

81. Devin Blocker

Altering the Microbiome with Chronic Antibiotic Treatment Decreases the Survival of Mice Bearing Hepatic Tumors

Anne Arundel Community College (Maryland)

Preceptor: Mr. Jeffrey Subleski

82. Pinaki Bose

Spatial and temporal coupling of genes in single cancer cells.

University of Texas at Arlington (Texas)

Preceptor: Dr. Daniel Larson

83. Shree Bose

Cellular Localization of the ATP-Binding Cassette Transporter ABCB5 in Melanoma Cell Lines and its Potential Role as a Mitochondrial Transporter

Harvard University (Massachusetts)

Preceptors: Dr. Jean-Pierre Gillet, Dr. Michael Gottesman

84. Benjamin Bouvier

Development of a murine model for evaluating the susceptibility of solid tumors to chimeric antigen receptor modified T cell therapies

Walt Whitman High School (Maryland)

Preceptors: Dr. Crystal Mackall, Mrs. Adrienne Long

85. Markus Brown

Chromosome Volume and Positioning in Diploid and Tetraploid Nuclei

University of Maryland, College Park (Maryland)

Preceptor: Dr. Jordi Camps

86. Jamie Cahoon

A new partner for the anti-apoptotic protein BAG3

Salish Kootenai College (Montana)

Preceptors: Dr. Marco Mineo, Dr. Elise Kohn

87. Michelle Camacho

Cell Migration Potential During Breast Cancer Progression

Stone Ridge School of the Sacred Heart (Maryland)

Preceptors: Dr. Carole Parent, Dr. Michael Weiger

88. Gabriela Canales

Measurement of Relative Telomere Lengths in Human Cancer Cell Lines and Tissues Using a Monochrome Multiplex Quantitative PCR Assay

Good Hope School (Virgin Islands)

Preceptors: Dr. Holly Stevenson, Dr. Daniel Edelman

89. Malik Carroll

Structural Analysis of Replication Proteins with DNA

Long Reach High School (Maryland)

Preceptor: Dr. Mirit Aladjem

90. Diane Castillo

Knockdown of EZH2 Decreases Cell Growth and Migration in Neuroblastoma

Seminole State College (Florida)

Preceptor: Dr. Chunxi Wang

91. Carmen Chan

Gene Expression Profile is Associated with Different Numbers of Myeloid-Derived Suppressor Cells in Murine Models of Hepatocellular Carcinoma

University of Virginia (Virginia)

Preceptor: Dr. Tim Greten

92. Henry Chen

A Mutagenesis Approach to Understanding Molecular Interactions Between Adaptor Proteins in T-Cells

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Nathan Coussens

93. Anna Chichura

Characterization of melanocyte-differentiation antigen expression in a mouse tumor expressing human BRAFV600E

Georgetown University (District of Columbia)

Preceptor: Dr. Nicholas Restifo

94. Monica Cho

Pre-Clinical Development of TSLPR-targeted Chimeric Antigen Receptor for Pediatric ALL

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Terry Fry, Ms. Haiying Qin

95. Rohini Choudhuri

Evaluating the relationship between Temozolomide inefficacy and MGMT expression in melanoma harboring 3D-skin tissue

University of Maryland, College Park (Maryland)

Preceptor: Dr. Palak Parekh

96. Madeline Clark

A Lipidomic Analysis of Radioprotection in CD47 null vs. WT cells

National Cathedral School (District of Columbia)

Preceptors: Dr. David Roberts, Dr. Thomas Miller

97. Jerome Clayton

A novel high-throughput method for the identification of mutations in BRCA1, BRCA2 and PTEN of prostate cancer patients

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Bert Gold

98. Moez Dawood, Janna Huang, Garrison Simms, Katherine Wu

Cryo-electron microscopy of dynamic protein assemblies: Advances in automated data processing

Rice University (Texas), St. Francis High School (California), St. Mary's School (Oregon), Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Alberto Bartesaghi, Dr. Sriram Subramaniam

99. Samantha DeMarco

Exploring the Molecular Mechanisms of the Multi-drug Resistance-linked P-glycoprotein

University of Maryland (Maryland)

Preceptors: Dr. Suresh Ambukdar, Dr. Eduardo Chufan

100. Callie Deng

C/EBP β Localization in Primary Mouse Keratinocytes and Dermal Fibroblasts

Montgomery Blair High School (Maryland)

Preceptor: Dr. Charles Vinson

101. RaShonda Dennis, Tiffany Coates

Frequency and clinical significance of KRAS mutations in gastrointestinal stromal tumors (GISTs) from stomach

Howard University College of Medicine (District of Columbia), University of Maryland, College Park (Maryland)

Preceptors: Dr. Jerzy Lasota, Dr. Markku Miettinen

102. Neelesh Dewan

Development and Characterization of Preclinical Murine Models for EML4-ALK-driven Non-Small Cell Lung Cancer

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Serguei Kozlov

103. Elena Donald

The Effect of Reduced Glutamine Concentration and Increased Ornithine Concentration on Tumor Cell Growth

University of Maryland, College Park (Maryland)

Preceptor: Dr. Wei Liu

104. Evyan Durham

Visualization of Interleukin-22 in Mouse Small Intestine

Howard University (District of Columbia)

Preceptor: Dr. Wei Shen

105. Alice Esame, Jamie Albright

Assessing youth knowledge of HPV and HIV: Does knowledge translate into protective behavior?

Howard University College of Medicine (District of Columbia), Elon University (North Carolina)

Preceptors: Dr. Lauren Wood, Dr. Lori Wiener

106. William Figg, II

A Multi-Institutional Study of Outcomes After Pediatric Heart Transplantation: Effect of ABCC2 Polymorphisms

Woodberry Forest School (Virginia)

Preceptor: Dr. Douglas Price

107. Benjamin Fletcher

Ewing's Sarcoma Cell Lines Require PARP1 for Survival

Brookline High School (Massachusetts)

Preceptor: Dr. Lee Helman

108. Lesley Flores

Creation of Phantoms for the Evaluation of Microscope and Digital Scanner Optics

University of Pennsylvania (Pennsylvania)

Preceptor: Dr. Stephen Hewitt

109. Thurman Foreman

Epigenetic Alteration of the CD47 Promoter in Tumor and Stem Cells by Methylation

Walter Payton College Preparatory High School (Illinois)

Preceptors: Dr. Sukhbir Kaur, Dr. David Roberts

110. Elliot Fox

Validation of Novel Single Nucleotide Variances in Hepatocellular Carcinoma Using Sanger Sequencing

Tallahassee Community College (Florida)

Preceptors: Dr. Junfang Ji, Dr. Xin Wang

111. Ricardo Francis

Characterization of an RNA chaperone and its role in post-transcriptional regulation

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Susan Gottesman, Dr. Daniel Schu

112. Harisha Garimella

Crystal Structure of Clinical Isolate (A02) HIV-1 Protease in Complex with Darunavir

Mount Hebron High School (Maryland)

Preceptor: Dr. Ravikiran Yedidi

113. Brian Garvey

Prostate segmentation on MRI and its clinical implications

Georgetown University School of Medicine (District of Columbia)

Preceptors: Dr. Peter Choyke, Dr. Baris Turkbey

114. Angela Gauthier

In Vitro Efficacy of Chemotherapeutic Agents and Anti-Glypican 3 Antibodies on Hepatocellular Carcinoma Cells

Dartmouth College (New Hampshire)

Preceptor: Dr. Mitchell Ho

115. April Gilkey

Effects of Psychological Stress on Breast Cancer Primary Tumor

Towson University (Maryland)

Preceptors: Dr. Brunilde Gril, Dr. Patricia Steeg

116. Jessica Godbout

The value of multiplexed reporter assays for pathway-directed anti-MEK and anti-ERK small molecule inhibitor therapy in pancreas cancer

DeSales University (Pennsylvania)

Preceptors: Dr. Udo Rudloff, Dr. Anne Miermont-Eltejaye

117. Allison Gomez

Enhanced Detection of Cancer Mutations Utilizing MEMO Real-Time PCR

University of California, San Diego (California)

Preceptor: Dr. Daniel Edelman

118. Adam Gonzalez

Identifying the Conformational Changes during the Catalytic Cycle of Human P-glycoprotein

Colgate University (New York)

Preceptors: Dr. Suresh Ambudkar, Dr. Hong-May Sim

119. Hannah Guan

Effector Pathways of ERK Signaling Governed Anti-MAPK Kinase Therapies in Pancreas Cancer

Vanderbilt University (Tennessee)

Preceptors: Dr. Udo Rudloff, Dr. Anne Miermont-Eltejaye

120. Alexandra Hahn

The effect of stromal CLIC4 on epithelial-mesenchymal transition in tumor cells.

Georgetown University (District of Columbia)

Preceptor: Dr. Anjali Shukla

121. Kathryn Headley

Use of a p53-Derived Stapled Peptide as an Affinity Isolation Reagent

Syracuse University (New York)

Preceptor: Dr. Federico Bernal

122. Roxana Hernandez

Locating regions of Escherichia coli DnaK important for molecular chaperone activity

Northern Virginia Community College (Virginia)

Preceptors: Dr. Shannon Doyle, Dr. Sue Wickner

123. Catherine Heywood

Cell line development: Tetracycline regulated glucocorticoid chimera nuclear translocation

George Washington University (District of Columbia)

Preceptors: Dr. Diana Stavreva, Dr. Gordon Hager

124. Tim Higgins

An Integrative Medical Approach to Sarcoma Treatment

University of Maryland, College Park (Maryland)

Preceptor: Dr. Zack Howard

125. Marina Hoashi

Developing a New Selection/Counter-selection System in E. coli and Salmonella

Cornell University (New York)

Preceptor: Dr. Don Court

126. Jennifer Hong, Christina Vossler

Natural Product Prefractionation

University of Texas at Austin (Texas), Hood College (Maryland)

Preceptors: Mrs. Laura Cartner, Mr. Richard Fuller

127. Sun Min Hong

Validating the Differences in Gene Expressions in High and Low Metastatic Cells

Richard Montgomery High School (Maryland)
Preceptor: Dr. Ling Ren

128. Brandi Howard

Determining the mRNA expression of PRKCA and AVPR1a, the two hyper-methylated genes found in Conn's Syndrome

Hampton University (Virginia)

Preceptor: Dr. Electron Kebebew

129. Katie Hsia

Identification of N-end rule substrates in Bacillus subtilis

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Michael Maurizi, Dr. Matthew Humbard

130. Kim Ngan Huynh

Reconstitution of human P-gp in nanodisc for functional studies.

University of California, Davis (California)

Preceptors: Dr. Suneet Shukla, Dr. Suresh Ambudkar

131. Jessica James

Functional Implications of a STAT3 SNP and its Relationship to Crohn's Disease and Colon Cancer

Hampton University (Virginia)

Preceptor: Dr. Brid Ryan

132. Jessie Jameson

High Serum Vitamin D Levels are Associated with Decreased Lung Cancer Risk in a Nested Lung Cancer Case-Control Study

University of North Carolina at Greensboro (North Carolina)

Preceptor: Dr. Majda Haznadar

133. Momodou Jammeh

Immunogenic Cell Death and Immunogenic Modulation in Irradiated Cancer Cells

University of Wisconsin (Wisconsin)

Preceptors: Dr. James Hodge, Dr. Sofia Gameiro

134. Jabril Johnson

Developing CAR (Chimeric Antigen Receptor) Immunotherapy Targeting ALK on Neuroblastoma

Jabril Johnson (Maryland)

Preceptor: Dr. Rimas Orentas

135. Alieu Kanu

Induction of CD8+ T cell Tolerance by Pre-B Acute Lymphoblastic Leukemia in vitro

George Washington University (District of Columbia)

Preceptors: Dr. Terry Fry, Dr. Jessica Shand

136. Natnael Kenea

The Possible role of CtBP in the linkage between Race, Obesity, and Triple Negative Breast Cancer.

Montgomery College (Maryland)

Preceptor: Dr. Jung Byun

137. Erum Khan

Determination of mtDNA copy- number in Top1mt KO MEFs

Richard Montgomery High School (Maryland)

Preceptor: Dr. Ilaria Dalla Rosa

138. Yoo Jung Kim

Repair of DNA double strand breaks containing DNA sequences distant from the genome

Dartmouth College (New Hampshire)

Preceptors: Dr. Masahiro Onozawa, Dr. Peter Aplan

139. Charles Koenig

The Search for New Respiratory Chain Complex III Inhibitors by in silico Docking Studies and Experimental Verification by Biochemical and Structural Determinations

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140. Niwen Kong

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141. Won-Jun Kuk

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142. Saikartik Kumar

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143. Rebecca Lee

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144. Bryan Leyva Vengoechea

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145. Andrew Lu

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146. Jennifer Lu

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147. Matthew Lu

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148. Wenting Ma

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149. Amy Maduram

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150. Rohini Manickam

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153. Adam Money

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156. Kevin Murray

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158. Maliza Namude

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159. Michael On'Gele

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160. Erica Payne

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162. Belinda Perez

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163. Sergey Plisov

Single Particle Tracking Analysis of HIV-1 RNA Trafficking

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164. Sunita Premysler

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166. Ebony Richardson

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167. Kathryn Romachuk, Steven Hohman

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168. Lisha Ruan

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169. Danielle Rubinstein

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170. Olivia Ruth

Role of microRNAs in the Regulation of T-bet Expression in TH17 Cells

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172. Justin Saunders

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174. Shaefali Shandilya

An Immunohistochemical Profile of Gene Expression in Pediatric Diffuse Intrinsic Pontine Gliomas

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Role of Replication Foci in Lamin B1 Knock Down Cells

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176. Audrey Shi

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177. Nancy Si

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178. Sahib Singh

Role of DAPP1 in Mutant EGFR-driven Lung Cancer

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179. Johnathan Smiley Jr.

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180. Rhoda Smith

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181. Ann Soliman

Trafficking of Hedgehog Signaling Regulators

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182. Jigisha Srivastav

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183. Veronika Stare

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Optimizing a DAB Immunostaining Protocol for RNA Recovery from FFPE Tissue

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Exploring the host specificity of the baculovirus (BacMam) expression system using polarized mammalian cells

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Characterizing Genomic Rearrangements in Myeloma Cell Lines

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188. Padmavathi Tipparaju

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189. Kiran Toor

S-PAC-1 A Small Molecule Procaspace-3 Activator as a Radiation Sensitizer.

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Preceptor: Dr. Karl Haglund

190. Dena Tran

mTOR Deficiency in Mice Impairs Antibody Diversity and Response to Bacterial Infection

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191. Yodit Tsegaye

How the Master Regulator of Stationary Phase is Recognized and Degraded in E. coli

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192. Silvia Valencia

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193. Julian Van Giessen, Sina Shahamatdar

Exploring combination therapies against Ras mutant cancer cells

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194. Eduard VanGelder

The role of SCAMP3 in EGFR Signaling and Lung Tumorigenesis

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195. Mudit Verma, Charles Li

P53 Regulation of Rap2b Promoter Regions Which Controls Expression in Luciferase Assay

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196. Jeanny Wang

Manipulating p53 dynamics using a p53-ER fusion

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Investigation of the cross talk between the IL-6 and TGF-beta pathways

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An activating mutation of AKT2 and tumorigenesis in melanoma

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199. Tiffany Wong

The Met/Alk inhibitor crizotinib blocks growth and invasion of bladder cancer-derived cell lines

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200. Cara Wright

Developing a Molecular Imaging Agent for Met Using Onartuzumab (MetMAb)
Eastern Virginia Medical School (Virginia)
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201. Josephine Wu

The Metastasis Susceptibility Gene Brd4 Interacts with a Wide Variety of Proteins and Localizes within Different Subnuclear Compartments
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Visually Monitoring Thyroid Carcinogenesis through Green Fluorescent Protein Expression in the ThrbPV/PV Mouse
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Progress Toward Tuning Cytokine Production in Mouse Macrophages by Tumor-Associated Carbohydrate Antigen-Coated Gold Nanoparticles
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205. Daniel Yarmovsky

Biochemical and Single Molecule Analysis of Chromatin Structure in Cancerous Cell Lines
Thomas S. Wootton High School (Maryland)
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206. Emily Yeh

Telomere Activity in Lamin B1 Knock Down Cells
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207. Abdul Zalikha

T cell receptor specific p38 alternative activation controls proliferation and inflammatory cytokine secretion
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Identifying novel regulators of primary cilium assembly
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Lysine Dimethylation of Bcl-2 Counteracts its Anti-Apoptotic Activity
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Oncogenic Function of p120RasGAP in Lung Cancer Cells
University of South Florida (Florida)
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The Role of Mus81 in Regulating DNA Replication and Other Regulatory Pathways
Charles E. Smith Jewish Day School (Maryland)
Preceptor: Dr. Mirit Aladjem

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214. Shayna Barbash

Investigation of Genetic Variants in High Risk Chinese UGI Families
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215. Dawn Comstock

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Gustavus Adolphus College (Minnesota)
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216. Lauren Hurwitz

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Johns Hopkins Bloomberg School of Public Health (Maryland)
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218. Catherine Kennedy

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221. Kelsey Murphy

Lifetime Ovulatory Cycles and Risk of Ovarian Cancer

Tufts University School of Medicine (Massachusetts)

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222. Jennifer Nguyen

Optimizing a Low Cost, qPCR-Based Approach to Measuring Telomere Length

Uniformed Services University of the Health Sciences (Maryland)

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223. Lucia Petito

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224. Marcy Schaeffer

The risk of breast cancer related to radiation dose and RB1 germline mutation status in long-term retinoblastoma survivors

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225. Alexandra Scott-Johnson

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University of Maryland, College Park (Maryland)

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226. Hira Shabbir

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University of North Carolina at Chapel Hill (North Carolina)

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227. Llewellyn Smith

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Williams College (Massachusetts)

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228. Rebecca Tannenbaum

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University of Cincinnati (Ohio)

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Washington University in St. Louis (Missouri)

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National Eye Institute (NEI)

232. Rebecca Abay

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University of Maryland, College Park (Maryland)

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234. Michael Ayele

The Effects of Retinoids and Retinoid Analogs on Stearoyl-CoA Desaturase Activity and Expression in Human Retinal Pigment Epithelial cells

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235. Julia Cao

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236. Eli Cornblath

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237. Candice Craig

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238. Jennifer Du

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Thomas Jefferson High School for Science and Technology (Virginia)
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239. Cierra Dunmire

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Community College of Allegheny County (Pennsylvania)
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240. Shelley Durazo

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University of Colorado Denver Anschutz Medical Campus (Colorado)
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241. Nicky Gazy

Photopic cone response of mouse electroretinogram
University of Maryland, College Park (Maryland)
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242. Erelida Gene

P25L Knock-in mouse models aspects of mild forms of human congenital blindness due to mutations of RPE65
Northern Arizona University (Arizona)
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243. Blen Girmay

*HLA-A*29:02 Transgenic Mice as a Model for Birdshot Disease*
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Preceptor: Dr. Mary Mattapallil

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University of California, Davis (California)
Preceptors: Mr. Rafael Villasmil, Dr. Rachel Caspi

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247. Teresa Longo

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University of Maryland, College Park (Maryland)
Preceptor: Dr. Shobi Veleri

248. Zachary Mendel

Assessing Known Retinal Degeneration Mutations in Commercially Available Mice
American University (District of Columbia)

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249. Cydney Nguyen

Effect of Amla Extract on 7-ketocholesterol-induced Cytotoxicity in ARPE-19 Cells

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250. Shota Ono

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251. Christine Park

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252. Nadia Parmhans

Quantitative analysis of dendritic arbor parameters in normal mouse starburst amacrine cells

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253. Kathy Perez

Sterculic Acid antagonizes 7-ketocholesterol-mediated corneal neovascularization

Nova Southeastern University (Florida)

Preceptors: Dr. Ignacio Rodriguez, Dr. Juan Amaral

254. Samuel Perez

mRNA Alternative Splice and Promoter Analysis of the Developing Mouse Retina

Dallas Baptist University (Texas)

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255. Katherine Pogrebniak

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256. Katherine Pohida

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Preceptor: Dr. Rivka Rachel

257. Nathan Qian

Optical Coherence Topography on Autopsy Eyes

James Madison High School (Virginia)

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258. Mariana Rius

The Effects of Population Density and Environmental Complexity on Aggressive Behavior of Zebrafish (Danio rerio)

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Prevalence of masquerade syndrome in patients with uveitis
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260. Ragha Suresh

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261. Umegbewe Tochi Ukwu

The Role of Constitutively Expressed STAT3 in Intraocular Inflammation
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National Human Genome Research Institute (NHGRI)

264. David Accame

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A Regulatory Signature for Diamond Blackfan Anemia

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272. Ethan Brenna, Tyler Fisher

Managing Expectations: A Clinical Trial for Duchenne/Becker Muscular Dystrophy

University of North Dakota (North Dakota), University of Pennsylvania (Pennsylvania)

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273. Jason Campbell

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Genome Wide Association Study of Refractive Error

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Exploring Health Disparities Through Virtual Reality

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Molecular Dissection of Runx1 Binding Sites in Cbfb-MYH11

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279. Ashley Ferguson

CBFB-MYH11 Initiates Leukemogenesis through Runx1 Interaction

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Tissue Pathology in a Mouse Model of Hyposialylation and Evaluation of ManNAc as a Therapy

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281. Jehshua Karunakaran, Emerson Maniwang

Identification of homozygosity in alpha-synuclein transgenic mouse: Implication of real-time PCR

Northern Virginia Community College (Virginia), University of Maryland (Maryland)

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282. Cristina Leos

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283. Sydney Liang

Characterization of transgenic zebrafish expressing oncogenic fusion protein CBF beta-SMMHC:

Determining heat shock induction and functionality of the transgenic protein

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284. Ricardo Linares

A Genetic Screen of a Patient with Chédiak-Higashi Syndrome Reveals Two Novel Mutations in LYST, Providing Further Insight into the Genotype-Phenotype Correlation.

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Preceptor: Dr. Andrew Cullinane

285. David Mannes

Frequency of GBA Mutation in Patient with Parkinson's Disease due to LRRK2 Mutation

Bethesda-Chevy Chase High School (Maryland)

Preceptors: Dr. Ellen Sidransky, Dr. Nahid Tayebi

286. Sina Mazaheri

Assessing The Role of Notch Signaling On The Regulation of The Transcription Factor Sox10 In The Melanocyte System

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287. Lan Mei

Performance of Somatic Detection Algorithms on Next-Gen Sequencing Data

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Sifting Through Genome Data
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290. Fernando Salazar-Miralles

Does APOE contribute to Parkinsonism among patients with Gaucher Disease?
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Folk Illness Beliefs and Its Effect on Clinical Health Behavior
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Metagenomic Characterization of the Human Skin Virome
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Genomic Medicine Comes to the Clinic: Investigating Physicians' Attitudes Toward Medical Liability Risk
Tougaloo College (Mississippi)
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294. Caryn Stark

Parental Values and Beliefs about Receipt of their Child's Primary and Secondary Variants from Whole Genome Sequencing
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Preceptors: Dr. Gillian Hooker, Mrs. Barbara Biesecker

295. Eric Sullivan

The Influence of the Lineage Transcription Factor NKX2-1 on Cell Differentiation and Transformation of Lung Epithelial Cells
Amherst College (Massachusetts)
Preceptor: Dr. Harold Varmus

296. Melissa Truong

Reduction of Progerin Expression with Morpholinos in Hutchinson-Gilford Progeria Syndrome Fibroblasts
University of Maryland, College Park (Maryland)
Preceptor: Dr. Francis Collins

297. Michael Tzeng

In Situ Hybridization in SCCPDH Zebrafish Embryos to Identify Patterns of Expression During Early Development
University of Maryland, College Park (Maryland)
Preceptor: Dr. Cornelius Boerkoel

National Heart, Lung, and Blood Institute (NHLBI)

298. Brittany Aicher

Overweight, Non-Diabetic, but not Diabetic, Women Benefit from a Worksite Wellness Program

New York Medical College (New York)

Preceptor: Dr. Richard Cannon

299. Rohan Anthony

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Preceptor: Dr. Jim DeLeo

300. Annabel Austin

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Preceptors: Dr. Attila Nagy, Dr. James Sellers

301. Yue Bi

Salt Reduction Initiatives Worldwide and Their Implications for the US

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Preceptor: Dr. Catherine Loria

302. Binbin Chen

Tryptophan Fluorescence Profiles Reveal Protein Dynamics of Monellin

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Preceptors: Dr. Jianhua Xu, Dr. Robert Lutz

303. Katherine Chen

Does Size Matter?: Agent-Based Simulation of Spindle Sequestration

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304. Vivienne Chen

Effect of Histone 3.3 Knockdown on Human Treg Cell Differentiation

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305. Eric Cheng

Effect of Anionic Lipids on the Membrane Penetration Depth of alpha-Synuclein

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Preceptors: Dr. Jennifer Lee, Dr. Zhiping Jiang

306. Leah Cheng

Red Blood Cell Alloimmunization in Sickle Cell Disease

Woodbridge High School (California)

Preceptor: Dr. Matthew Hsieh

307. Kyujoo Choi

Reprogramming nonhuman primate bone marrow-derived CD34+ cells into induced pluripotent stem cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sogun Hong, Dr. Cynthia Dunbar

308. Dominique Diggs

Informed Consent for Genetic Research: Evaluating the level of consistency in sickle cell patients

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Preceptor: Dr. James Taylor

309. Vy Duong

p53-inducible Ferredoxin Reductase Promotes Mitochondrial Biogenesis and Function

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Preceptor: Dr. Paul Hwang

310. Anabela Esteves

Novel Interaction between the Mitochondrial Calcium Uniporter and Calcium/Calmodulin-Dependent Protein Kinase II

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311. Julian Haimovich

Classification of Heart Enhancers in Drosophila

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Preceptor: Dr. Alan Michelson

312. Olexa Horbachevsky

Incidence of Bronchiolitis Obliterans Syndrome After Nonmyeloablative Hematopoietic Stem Cell Transplant

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Preceptor: Dr. Nicole Gormley

313. Kevin Huo

The Effect of PDE3B Deletion on Inflammasome Gene Expression

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Vincent Manganiello

314. Tyler Jenish

Identification of Drosophila Cardiac Enhancers

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Preceptor: Dr. Shaad Ahmad

315. Aanchal Johri, Daniel Wu

Characterization of Intron Retention During T Cell Activation

Montgomery Blair High School (Maryland), Thomas S. Wootton High School (Maryland)

Preceptors: Dr. Jun Zhu, Dr. Yoshi Wakabayashi

316. Scharlet Kelly

Magnetic Resonance Imaging vs. Echocardiography of Mouse Cardiac Function: A Comparison Study of Modalities

Oklahoma State University Center for Veterinary Health Sciences (Oklahoma)

Preceptor: Dr. Stasia Anderson

317. Yusuf Khan

Regulation of Inflammasome Signaling in PDE3B-ko Adipose Tissue

Northwest High School (Maryland)

Preceptors: Dr. Faiyaz Khan, Dr. Vincent Manganiello

318. Justin Lee

An Expandable LabView Implementation of Global Analysis for Multiparametric FLIM Data

George Washington University (District of Columbia)

Preceptors: Dr. Jay Knutson, Dr. Aleksandr Smirnov

319. Jonathan Lin, Lauren Siniscalchi

Analyzing Human Pluripotent Stem Cell Differentiation in Embryoid Bodies with Immunostaining and Genetic Engineering

Thomas Jefferson High School for Science and Technology (Virginia), Wittenberg University (Ohio)

Preceptors: Dr. Guokai Chen, Dr. Jane Qin

320. Kun Liu

Molecular Simulation Study of the Movement of the Kinesin Molecular Motor by Self-guided Langevin Dynamics

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Preceptors: Dr. Xiongwu Wu, Dr. Bernard Brooks

321. Sharangdev Managoli

From bench into patients: Evaluating safety of a safe and conspicuous MRI guidewire.

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robert Lederman, Mr. Merdim Sonmez

322. Romita Mandal

The Role of Eotaxin Activity in Different Strains of Mice Treated with Liver Injury Inducing Drugs

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Preceptors: Dr. Mala Chakraborty, Dr. William Proctor

323. Kendall Masada

The Role of Rab Proteins in Wnt Signaling

University of Texas at Austin (Texas)

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324. Mohamed Mohamed

Bullying Behaviors in Adolescents as a risk factor for Obesity.

Tougaloo College (Mississippi)

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325. Radina Mutskova

Correlation between Clinical Data and Immune Phenotyping of Healthy Volunteers after a single injection of Hydrocortisone

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326. Katherine Owsiany

The TALE nuclease: a specific, efficient tool for genome editing

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327. Jeff Rappaport

Understanding the Kinetics, Mechanics, and Regulation of Drosophila melanogaster Myosin V

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Preceptor: Dr. James Sellers

328. Aparna Sajja

Effect of local hypoxia on Cxcl12 and VEGF expression in nerves and arterial branching.

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Preceptors: Dr. Yosuke Mukoyama, Dr. Wenling Li

329. Kelly Shan, Nathaniel Armistead

Analyzing the Effect of Dynein Inhibitor Ciliobrevin D on T Cell Microcluster Movement

Brown University (Rhode Island), Dickinson College (Pennsylvania)

Preceptors: Dr. John Hammer III, Dr. Jason Yi

330. Peibei Shi

Modeling and Risk Factors Evaluation on Congestive Heart Failure from the Multi-Ethnic Study of Atherosclerosis

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Colin Wu, Dr. Xin Tian

331. Lauren Siniscalchi, Jonathan Lin

Improving efficiency of Human Induced Pluripotent Stem Cell derivation and optimizing Embryoid Body differentiation for Translational Research

Vanderbilt University (Tennessee), Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Guokai Chen, Dr. Jeanette Beers

332. Jacob Sykes

Characterization of the Kinase Inhibitory Activity of Adeno-Associated Virus Rep Proteins

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333. Derek Teng

Specificity of Blebbistatin on Different Myosins

California High School (California)

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334. Aylin Unsal

Perinatal Salt Intake and Fetal Programming of Hypertension

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Preceptor: Dr. Diane Bild

335. Kiet Zhou

Determine the Sub-Cellular Localization of Several Proteins that Modulate the Mitochondrial DNA Level

Damascus High School (Maryland)

Preceptors: Dr. Hong Xu, Dr. Zhe Chen

National Institute on Aging (NIA)

336. Christian Amador

Overexpression of Cytochrome B5 Reductase increases lifespan in mice

Georgetown University (District of Columbia)

Preceptor: Dr. Alejandro Martin-Montalvo Sanchez

337. Olubusayo Awe

Fungiform papillae density in the Baltimore Longitudinal Study of Aging (BLSA)-a possible biomarker?

Morehouse College (Georgia)

Preceptors: Dr. Chee Chia, Dr. Josephine Egan

338. Cassius Bajoo

Repositioning of Dipeptidyl Peptidase 4 (DPP-4) Inhibitors Effective in Type 2 Diabetes Mellitus (T2DM) as a Treatment Strategy for Parkinson's Disease

Florida International University (Florida)

Preceptors: Dr. Nigel Greig, Dr. Yazhou Li

339. Melissa Beyer

Foxl2 and Lhx8 regulation of the cortico-medullary gradient of the ovary by control of extracellular matrix organization: A possible factor in premature ovarian failure.

Clemson University (South Carolina)

Preceptor: Dr. Emanuele Pelosi

340. Nikki Boggess

Best 2, a sweat gland expressed gene, recombineering based promoter isolation and characterization.

University of Kansas (Kansas)

Preceptor: Dr. Ramaiah Nagaraja

341. Jamar Borland

Protein Expression and Activity Analysis of Serine Racemase with Ketamine and its Metabolites in PC-12 and 1321N1 cells

University of Central Florida (Florida)

Preceptor: Dr. Rajib Paul

342. Diana Cardenas

Post-transcriptional Regulation of C-reactive Protein

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Preceptor: Dr. Nicole Noren Hooten

343. Hongyu Chen

Textrous: Finding Word Associations from Gene Sets

Dartmouth College (New Hampshire)

Preceptor: Dr. Stuart Maudsley

344. Soumya Chigurupati

A Role for DNA Repair Protein Polymerase Beta in Cognition and Anxiety

Notre Dame University of Maryland (Maryland)

Preceptors: Dr. Sarah Rothman, Dr. Peter Sykora

345. Sarah Collica

The link between muscle alpha2-AMPK activity and memory function.

Yale University (Connecticut)

Preceptor: Dr. Henriette van Praag

346. Laura Donahue

LRRK2 regulates dopamine-induced PKA activity in striatal medium spiny neurons

University of Michigan (Michigan)

Preceptors: Dr. Loukia Parisiadou, Dr. Huaibin Cai

347. Devin English

Community Composition, Racial Discrimination, and Psychophysiological Outcomes for African Americans

George Washington University (District of Columbia)

Preceptor: Dr. Alan Zonderman

348. Fourbears George

Specificity of Fe-S Cluster DNA Helicases to Unwind G-Quadruplex Structures that Interfere with Genomic Stability

Eastern Michigan University (Michigan)

Preceptor: Dr. Robert Brosh, Jr.

349. Toni-Rose Guiriba

Does the variability in pacemaker cell action potential firing rate depend upon age and autonomic receptor stimulation?

Baltimore City Community College (Maryland)

Preceptor: Dr. Yael Yaniv

350. Ariel Harrison

Sweet tastants influence cellular differentiation in the gastrointestinal system

Southern University and Agricultural & Mechanical College (Louisiana)

Preceptor: Dr. Josephine Egan

351. Alisha Jamil

Altered insulin signaling in the postmortem Alzheimer's disease brain

Johns Hopkins University (Maryland)

Preceptor: Dr. Jagadeesh Rao

352. Jacob Kimmel

Do Different Tissues Age at Different Rates?

Satellite High School (Florida)

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353. Nuphar Lendner

Proposal for a unifying theory of metabolism, biogenesis, growth, longevity and aging via coordinated regulation of citrate/acetyl-flux dynamics

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Preceptor: Dr. Magdalena Juhaszova

354. Huiwen Liu

Topoisomerase 3-beta is essential for locomotion and the normal stress response in Drosophila melanogaster

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355. Clarence Manuel

Investigating genomic instability in single-cell hippocampal neurons in Alzheimer Disease

University of Medicine and Dentistry of New Jersey (New Jersey)

Preceptor: Dr. Kevin Becker

356. Annia Mesa

Effect of age on skeletal muscle stem cell abundance and activation

Florida International University (Florida)
Preceptors: Dr. Jessica Curtis, Dr. Rafael de Cabo

357. Marjan Nabili

Computer-Aided Thigh Composition Assessment and Muscle Quality Characterization from MR Images
George Washington University (District of Columbia)
Preceptor: Dr. Sokratis Makrogiannis

358. Allison Regester

Beneficial effects of Resveratrol in the rat chronic heart failure model: Not a magic bullet
University of Delaware (Delaware)
Preceptors: Dr. Mark Talan, Mrs. Shannon Marshall

359. Brian Roberts

Genome-wide DNA Methylation in Human Frontal Cortex using Infinium Humanmethylation450 BeadChip
Gaithersburg High School (Maryland)
Preceptor: Ms. Dena Hernandez

360. Mathavi Sankar

Mitochondrial-Associated Genes in a Novel Model of Aging
Centennial High School (Maryland)
Preceptor: Dr. Bronwen Martin

361. Namratha Sastry

LRRK2 knockout leads to hydrocephalus-related abnormalities in mice
West Virginia University (West Virginia)
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362. Ginamarie Shrader

Mutational Spectrum of RAB24 and GBA2 in Ataxia
Eleanor Roosevelt High School (Maryland)
Preceptors: Dr. Andrew Singleton, Mrs. Monia Ben Hamad

363. Lisa Ann Tang

Verification of the Specific Interactions between RAGE and ELMOD2
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364. Alexander Tereshchenko

Brain Activation during Risky Decision Making
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Preceptors: Dr. Lori Beason-Held, Dr. Joshua Goh

365. Katherine Turlington

The Effect of Age on B Cell Populations and Function
University of Maryland (Maryland)
Preceptors: Dr. Patricia Gearhart, Dr. Lisa Russell

366. Cecilia Wang

The Prolongevity Effect of Cranberry Extract in Drosophila melanogaster
Saint Louis University (Missouri)

Preceptor: Dr. Sige Zou

367. James Wang

Effects of Diet on Mitochondrial Functions in a Mouse Model of Premature Aging

California State University, Los Angeles (California)

Preceptor: Dr. Morten Scheibye-Knudsen

368. Kathy Wang

Involvement of MFG-E8 in the Pathogenesis of the Age-associated Atherosclerosis

Mount Hebron High School (Maryland)

Preceptors: Dr. Mingyi Wang, Mr. Richard Telljohann

369. Govind Warriar

Age-Associated Changes in Left Ventricular Strain

University of Kentucky (Kentucky)

Preceptor: Dr. James Strait

370. Khalea Wrensford

Cannabinoid 1 Receptor Antagonists Increase Insulin Content in Diabetic Mice

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371. Jason Xu

Linking long noncoding RNA to cellular senescence

Great Valley High School (Pennsylvania)

Preceptors: Dr. Myriam Gorospe, Dr. Kotb Aly

372. Jingbo Yi

Estimating partial attributable risks of dementia for multiple risk factors

Cornell University (New York)

Preceptor: Dr. Binbing Yu

373. William Zhang

Age-associated Changes in Murine T Lymphocytes

Duke University (North Carolina)

Preceptor: Dr. Nan-Ping Weng

374. Richard Zheng

Ankle Proprioception, Balance, and Fall Risks in Older Adults

State University of New York - Stony Brook Medical School (New York)

Preceptor: Dr. Eleanor Simonsick

National Institute on Alcohol Abuse and Alcoholism (NIAAA)

375. Mohammed Akbar

Role of cytochrome P450 2E1 (CYP2E1) in promoting oxidative stress and aging

Richard Montgomery High School (Maryland)

Preceptors: Dr. B Song, Dr. Mohammed Abdelmegeed

376. Vivek Gupta

The Behavioral and Neurological Effects of Acute Ethanol and Drug Exposure in Larval Zebrafish

Dartmouth College (New Hampshire)

Preceptor: Dr. Fumihito Ono

377. Eileen Holovac

Mitochondrial Reactive Oxygen Species Generation Triggers Inflammatory Response and Tissue Injury Associated with Hepatic Ischemia-Reperfusion: Therapeutic Potential of Mitochondrially-Targeted Antioxidants

Colonel Zadok Magruder High School (Maryland)

Preceptors: Dr. Partha Mukhopadhyay, Dr. Pal Patcher

378. Ochan Kwon

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Preceptor: Dr. Hee Young Kim

379. Nicholas Salem

Quantification of Endocannabinoids in Human Whole Blood by GC/MS/MS

Providence College (Rhode Island)

Preceptors: Dr. Joseph Hibbeln, Dr. Yuhong Lin

380. Adelaide Tousley

Signal pathways involved in AEA-mediated insulin resistance in mouse hepatocytes

Middlebury College (Vermont)

Preceptor: Dr. Jie Liu

381. Brent Wang

Development of a Novel Therapeutic Agent to treat a Rare Genetic Disease

Northwest High school (Maryland)

Preceptors: Dr. Li Zhang, Dr. Wei Xiong

382. Edward Yu

Cannabinoids Enhance Glycine Receptor Function through a Membrane Cholesterol-dependent Mechanism

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Li Zhang, Dr. Wei Xiong

383. Karina Yu

The Super Chicken Study: Emotional and Immunological Responses to Elevated Omega-3 Nutrient Contents of Military Diets

Columbia University (New York)

Preceptor: Dr. Joseph Hibbeln

National Institute of Allergy and Infectious Diseases (NIAID)

384. Nicholas Adamstein

The Effect of Metal Ions on the Low pH Transition an Influenza Protein

Washington University in St. Louis (Missouri)

Preceptors: Dr. James Whittle, Dr. Gary Nabel

385. Kwasi Adu-Berchie

Functional Characterization of Plasmodium falciparum Chloroquine Resistance Transporter

Michigan State University (Michigan)
Preceptors: Dr. Chia Liu, Dr. Thomas Wellems

386. Sara Azeem

Proteomics and Phosphoproteomics of the Terminal Ileum of Normal vs Germ-Free Mice Investigated using Mass Spectrometry

University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Aleksandra Nita-Lazar

387. Manjot Bagri

The Role of mTOR Complex Components in Mast Cell Mediator Release

University of California, Los Angeles (California)
Preceptors: Dr. Daniel Smrz, Dr. Alasdair Gilfillan

388. Amy Bao

Determination of 10E8 Binding Affinity using Biolayer Interferometry

Richard Montgomery High School (Maryland)
Preceptor: Dr. Baoshan Zhang

389. Erika Baral

Structure-Function Analysis of the C-Chemokine XCL1 (Lymphotactin)

Mission San Jose High School (California)
Preceptors: Dr. Paolo Lusso, Dr. Christina Guzzo

390. Maputi Botlhole

Identify Malaria Liver-stage antigens

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Preceptor: Dr. Charles Anderson

391. Matthew Bourne

The Role of Darc in Atherogenesis

University of Maryland, College Park (Maryland)
Preceptors: Dr. Philip Murphy, Dr. Wuzhou Wan

392. Robert Brooks, Azam Husain

Further Characterization of STAT2-Deficient Daudi Cells

Haverford College (Pennsylvania), Colonel Zadok Magruder High School (Maryland)
Preceptor: Dr. Kathryn Zoon

393. Elizabeth Chin

Burkholderia Subversion of Innate Immune Response

University of California, Berkeley (California)
Preceptors: Dr. Souhaila Al-Khodor, Dr. Iain Fraser

394. Sara Clemens

Study of the in vitro response to cytokines (IL-7 and Type-1 IFN) of human CD4 and CD8 T cell subsets by flow cytometry

Georgetown University (District of Columbia)
Preceptor: Dr. Marta Catalfamo

395. Rachel Cotton

The Infective Stage of the Filarial Parasite Brugia malayi Modulates Immune Responses in Human Epidermal Langerhans Cells and Keratinocytes

University of Notre Dame (Indiana)

Preceptors: Dr. Roshanak Tolouei Semnani, Dr. Thomas Nutman

396. Hillary Craddock

Epidemiological Analysis of a Cohort of Lyme Disease Patients Treated at the National Institutes of Health from 2001-2012

University of Michigan (Michigan)

Preceptor: Dr. Jennifer Adjemian

397. Katharine Earl

Using Next Generation Sequencing to Characterize Microbiome States

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Andrew Martins

398. Dominique Earland

The Regulation of Genes Degradation by DDX6 in HeLa Cells

Wissahickon High School (Pennsylvania)

Preceptor: Dr. Nannan Zhang

399. Orly Farber

Evaluation of TGF-beta signaling via regulatory T cell induction in Patients with atopy and connective tissue disease

University of Chicago (Illinois)

Preceptors: Dr. Monica Lawrence, Dr. Joshua Milner

400. Yehou Gnopo

Comprehensive Analysis of the Pre-Erythrocytic Vaccine Candidate of Malaria Parasite

Lafayette College (Pennsylvania)

Preceptors: Dr. Tejram Sahu, Dr. Patrick Duffy

401. Derek Gritz

S1P Dependent Lymphocyte Migration

Yale University (Connecticut)

Preceptor: Dr. Cedric Boularan

402. Victoria Hanway

Binding Characteristics of VRC07 Variants

National Cathedral School (District of Columbia)

Preceptor: Dr. Gary Nabel

403. Forrest Hoyt

Applications of Correlative Light and Electron Microscopy Techniques

Montana State University (Montana)

Preceptor: Dr. Vinod Nair

404. Max Hu

Identification of the predominant IgG subclass in patients with anti-interferon-gamma auto-antibodies

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sarah Browne, Dr. Kamonwan Jutivorakool

405. Mo Huang

The Molecular Mechanism of CARD8 in Inflammatory and Apoptotic Pathways

Washington University in St. Louis (Missouri)

Preceptor: Dr. Tengchuan Jin

406. Soo Hwang

Characterization by Western blot of the structural integrity of a novel fusion protein comprised of three malaria vaccine antigens

Gaithersburg High School (Maryland)

Preceptor: Dr. David Narum

407. Rashad Jabbar

Lung dendritic cell responses following RSV infection of neonatal and adult mice

Calvin Coolidge Senior High School (District of Columbia)

Preceptor: Mr. Rashad Jabbar

408. Barbora Kabatova

Generation of New Recombinant PIV2 Vaccine Candidates Expressing the RSV F Protein in Combination with Attenuating Mutations in the PIV2 L Polymerase

Richard Montgomery High School (Maryland)

Preceptors: Dr. Peter Collins, Dr. Anne Nutt

409. Ju-Young Kang

Mapping the Functional Domains of Killer Immunoglobulin-like Receptors KIR3DL responsible for the recognition of Major Histocompatibility Complex class I Molecules by Natural Killer Cells

Gar-Field High School (Virginia)

Preceptor: Dr. Bernard Lafont

410. Lei Kang

VZV ORF12 Regulates Bcl-2 Family Members to Inhibit Apoptosis

Montgomery Blair High School (Maryland)

Preceptor: Dr. Xueqiao Liu

411. Bryan Kuo

Modeling Signaling Components of the Toll-like Receptor 4 Pathway

Johns Hopkins University (Maryland)

Preceptors: Dr. Sharat Vayttaden, Dr. Iain Fraser

412. Sujin Lee

Effect of B Cell Depletion Therapy by Rituximab on Transcriptosome Profiling of Mixed Cryoglobulinemic Vasculitis Subjects

Cornell University (New York)

Preceptor: Dr. Shyam Kottilil

413. Christopher Lees

Enhancing Expression of Difficultly-Expressed Proteins through 96-well Microplate Format HTP Technology

Thousand Oaks High School (California)

Preceptor: Dr. Yongping Yang

414. Brian Lei

Regulation of the differentiation of human Th17 cells

Yale University (Connecticut)

Preceptors: Dr. Joshua Farber, Dr. Satya Singh

415. Leyan Li

Synthesis of cis-[19F] 4-Fluoro-L-Proline and its Precursor-a Potential Radiotracer of Pulmonary Fibrosis during Mycobacterium tuberculosis Progression in Rabbit Model

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Preceptor: Dr. Amit Nayyar

416. Dara Lorn

Kinetic Analysis of Protein and Gene Expression in IFN and RBV Treated Cells

Wesleyan University (Connecticut)

Preceptor: Dr. Kathryn Zoon

417. Taylor Nickens

ROS-Deficiency is Protective Against Pristane-Induced Alveolar Hemorrhage

Baldwin School (Pennsylvania)

Preceptors: Dr. Sharon Jackson, Dr. Leah Hubbard

418. Gretchen Peppers

The Kinetics of Regulatory CD4 T-Cell Response in Respiratory Syncytial Virus (RSV) Infected Mice

Xavier University of Louisiana (Louisiana)

Preceptor: Dr. Jie Liu

419. Victoria Poon

Analysis of Later Generation Fluoroquinolone Treatment in a Drug-Resistant Tuberculosis Cohort in a South Korean Referral Hospital

University of Maryland, College Park (Maryland)

Preceptor: Dr. Clifton Barry III

420. Han Raut

Design, Synthesis, and Empirical Characterization of VRC01-like Antibodies with Substituted CDRH3 regions

Stanford University (California)

Preceptor: Dr. Ivelin Georgiev

421. Chelsea Richardson

Identifying Critical Genes for Malaria Transmission

Springside Chestnut Hill Academy (Pennsylvania)

Preceptor: Mrs. Kim Williamson

422. Doralina Ruiz-Fleites, Matthew Myers

Investigating the Virulence of C. neoformans using Overexpressed Genes

Gaithersburg High School (Maryland), Winston Churchill High School (Maryland)

Preceptors: Dr. Peter Williamson, Dr. Shu Hui Chen

423. Beau Sylvester

Reactive oxygen species differentially regulates cell death and miR-21 via toll-like receptors

Punahou School (Hawaii)

Preceptors: Dr. Sharon Jackson, Dr. Sam Vasilevsky

424. Peter Trinh

Correlating Natural Killer Cell Phenotype to Cellular Cytotoxicity

Princeton University (New Jersey)

Preceptor: Dr. Nancy Sullivan

425. Mercy Uwakwe

The soluble IL-33 receptor: A mast cell decoy receptor
University of Texas at El Paso (Texas)
Preceptor: Dr. Dean Metcalfe

426. Amanda Ward

FPR2 is a Protective Factor in Endotoxemia
University of Maryland (Maryland)
Preceptors: Dr. Jiliang Gao, Dr. Philip Murphy

427. John Wilson

Evaluation of RSV Specific Antibody
Maret School (District of Columbia)
Preceptor: Dr. Barney Graham

428. Jason Ya

Isolating monoclonal antibodies from HIV-infected donors by single B-cell culture
University of Virginia (Virginia)
Preceptors: Dr. John Mascola, Dr. Nicole Doria-Rose

429. Zachary Yaffe

Point Mutations of the Broadly Neutralizing Influenza Antibody CH65
Princeton University (New Jersey)
Preceptors: Dr. James Whittle, Dr. Gary Nabel

430. Weiyu Zhang

Isolation and Characterization of HIV-1 Envelope Variants Potentially Eliciting Potently Neutralizing Antibody Responses
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Xueling Wu, Dr. John Mascola

431. Kathleen Zhu

The Effect of Mycotoxin Fumonisin B1 on CD4+ T cells, a Major Target of HIV
Wellesley College (Massachusetts)
Preceptor: Dr. Claudia Cicala

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

432. Abiana Adamson

Regulation of Gene Expression in T Cells
Blake School (Minnesota)
Preceptor: Dr. John O'Shea

433. Mirza Ali

Histone variants macroH2A are differentially expressed during skeletal muscle differentiation
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Stefania Dell'orso, Dr. Vittorio Sartorelli

434. Sydney Bell

Heterotopic Ossification and Fibrosis: Determining the Significance of the TGFB1/TGFB3 Ratio
Latin School of Chicago (Illinois)

Preceptors: Dr. Youngmi Ji, Dr. Leon Nesti

435. David Deng

Determining the optimal conditions for Ure2p filament assembly

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Rick Huang

436. Santiago Espinosa de los Reyes

Modulation of Neuronal Differentiation from Pluripotent Stem Cells

St. Mary's Hall (Texas)

Preceptor: Dr. Nasir Malik

437. Jordan Krebs

Genome Editing via TALEN-ZFNs

Lycoming College (Pennsylvania)

Preceptors: Dr. Rafael Casellas, Mr. Jason Qian

438. Selimar Ledesma-Maldonado

Exploring genetic link between IgE autoantibodies and development of Systemic Lupus Erythematosus.

University of Puerto Rico, Mayagüez (Puerto Rico)

Preceptors: Dr. Juan Rivera, Dr. Barbara Dema

439. Jason Marr

RNA-Seq: Effects of Sequencing Depth and Reads Length

Towson University (Maryland)

Preceptor: Dr. Hong-Wei Sun

440. Adam McShane

Towards the Understanding of MicroRNAs in Mesenchymal Progenitor Cells from War-traumatized Muscle Tissue

University of Connecticut (Connecticut)

Preceptors: Dr. Youngmi Ji, Dr. Leon Nesti

441. Divya Narayanan

The Batch Effect: Inter-Assay Variability in Patient Cytokine Analysis

University of California, Berkeley (California)

Preceptors: Dr. Raphaela Goldbach-Mansky, Dr. Yin Liu

442. Brenda Rios

The Role of HLA-B27 Misfolding in TNF-induced Cell Death in Human Monocytic Cell Line U937

Edison State College (Florida)

Preceptors: Dr. Tri Tran, Dr. Robert Colbert

443. Brittany Sansbury

Path Analysis Determining the Effect of Health Beliefs on Medication Adherence through Time Perspective for Patients with Diabetes or Hypertension

University of Memphis (Tennessee)

Preceptor: Dr. Michael Ward

444. David Shin

Investigating an in vitro fibroproliferative model for heterotopic ossification in mesenchymal progenitor cells isolated from war-traumatized muscle tissue

Columbia University (New York)

Preceptor: Dr. Leon Nesti

445. Amenhotep Taharka

HIV-1 viral fusion protein gp41: effects of detergents on subunit association

Bishop O'Dowd High School (California)

Preceptors: Dr. Paul Wingfield, Mr. Joshua Koffman

446. Elizabeth Yuen

Identifying Long Non-Coding RNA

San Francisco State University (California)

Preceptor: Dr. John O'Shea

447. Alan Zhang

Diagnosis of Autoinflammatory Diseases through Exome Sequencing

Mt. Hebron High School (Maryland)

Preceptors: Dr. Raphaela Goldbach-Mansky, Dr. Yin Liu

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

448. Oluseye Bankole

Development of a microfluidic model for tumor cell migration through the endothelial membrane:

Towards an understanding of intravasation

Tufts University (Massachusetts)

Preceptor: Dr. Nicole Morgan

449. Sarah Bass

Use of microfluidic deposition of CSPG surface gradients to study axon outgrowth

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Nicole Morgan, Dr. Hebert Geller

450. Daniel Bleykhman

Quantification of Vascular Reactivity in Humans

George C. Marshall H.S. (Virginia)

Preceptor: Dr. Alexander Gorbach

451. Richard Chen

Ultrastructural variations in glycogen and the influence of differentiation factors in human embryonic and induced pluripotent stem cells

Montgomery Blair High School (Maryland)

Preceptor: Dr. Richard Leapman

452. Daniel Cheng

The Effect of Histone Deacetylase Inhibitor on Brain Cell Damage

Richard Montgomery High School (Maryland)

Preceptor: Dr. Jie Lu

453. Anyuan Chu

Quantification of Vascular Tone in Humans

Poolesville High School (Maryland)

Preceptor: Dr. Alexander Gorbach

454. Manjima Dhar

Development of paper-based LIPS assay for rapid serum antibody detection

Johns Hopkins University (Maryland)

Preceptor: Dr. Nicole Morgan

455. Xiaoyu Gao

Synthesis of Highly Fluorescent and Surface Modifiable Bi-Metal (Au & Ag) Nanoclusters Via Electrostatically-Induced Phase Transfer

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Xinglu Huang

456. Havisha Garimella

Engineered Novel Multifunctional Green-Gold Nanoparticles for Single Platform Cancer Therapy and Diagnostics

Mount Hebron High School (Maryland)

Preceptor: Dr. Ashwinkumar Bhirde

457. Emily Graczyk

Analyzing atypical ankle power generation in unilateral transtibial amputees

University of South Carolina (South Carolina)

Preceptor: Dr. Erik Wolf

458. Katherine Ho

Apoptosis Imaging by an EB Conjugated Caspase 3 Activatable Probe

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptor: Dr. Lei Zhu

459. Chuhern Hwang

Modeling the Effects of Targeted Structural Damage in Resting State Networks on Functional Connectivity

University of Virginia (Virginia)

Preceptor: Dr. Barry Horwitz

460. Ugne Klibaite

Imaging Cells and Viruses with 3D Electron Microscopy

Columbia University (New York)

Preceptor: Dr. Sriram Subramaniam

461. Courtney Koenig

Quantification of Skin Temperature Changes in Patients with Sickle Cell Disease

University of Maryland, College Park (Maryland)

Preceptor: Dr. Alexander Gorbach

462. Amy Liang

Gold-Nanoparticle Based Rough Surfaces for Highly Sensitive Detection of Biomarkers

Richard Montgomery High School (Maryland)

Preceptor: Dr. Dingbin Liu

463. Yuchi Ma

The Optimization of Gene Transfection Using Different Transfection Reagents

University of Maryland, College Park (Maryland)

Preceptors: Dr. Zhe Wang, Ms. Zhongchan Sun

464. Jennifer Mann

Gait Adaptation and Modulation in Unilateral Cerebral Palsy
Worcester Polytechnic Institute (Massachusetts)
Preceptor: Dr. Diane Damiano

465. Ana Moreno

Photoconversion in Fluorescent Proteins
University of Arizona (Arizona)
Preceptor: Dr. George Patterson

466. Jennifer Peng

Investigating Rhodopsin Organization in Native and Model Membranes by Atomic Force Microscopy
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptor: Dr. Albert Jin

467. Ashley Polhemus

Individuals with patellofemoral pain exhibit altered joint contact location and pattern compared to healthy controls: A dynamic, in-vivo study during concentric and eccentric muscle control
College of New Jersey (New Jersey)
Preceptors: Dr. Bhushan Borotikar, Dr. Frances Sheehan

468. Neil Ray

Study of Intrinsic Temporal Mechanical Oscillations of Cells
University of California, Berkeley (California)
Preceptor: Dr. Emilios Dimitriadis

469. Candice Thompson

Characterization of Carbon Dots and Nanotubes by Biological Atomic Force Microscopy
Howard University (District of Columbia)
Preceptor: Dr. Albert Jin

470. Joy Zeng

Targeted thermal ablation of cancer cells by carbon nanotubes
Poolesville High School (Maryland)
Preceptor: Ms. Magdalena Swierczewska

471. Alice Zhou

Probing the effects of acquisition settings on the analysis of ITC data
Thomas S. Wootton High School (Maryland)
Preceptor: Dr. Patrick Brown

472. Daniel Zhou, Maurin Mwombela

Atomic Force Microscopy Characterization of Protein Constructs with Nanocarriers as Developing Malaria Vaccines
University of Pennsylvania (Pennsylvania), St. Anselm's Abbey School (District of Columbia)
Preceptors: Dr. Albert Jin, Dr. Paul Smith

Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)

473. Hannah Abrams

Developing an Assay for Mature and Pro forms of Brain-Derived Neurotrophic Factor in Serum

Emery/Weiner School (Texas)
Preceptor: Dr. Stephanie Cologna

474. Brian Anderson

Asthma disparities in minority children
Florida International University (Florida)
Preceptors: Dr. Regina James, Dr. Della White

475. Beth Ashinsky

ER stress response to procollagen triple helix misfolding
Carleton College (Minnesota)
Preceptors: Dr. Sergey Leikin, Dr. Elena Makareeva

476. Alexis Berry

Role of Salt Inducible Kinase (SIK) on the Transcriptional Regulation of Steroidogenic Acute Regulatory Protein (StAR) in the Adrenal Cortical cell line Y1
Springside Chestnut Hill Academy (Pennsylvania)
Preceptors: Dr. Greti Aguilera, Ms. Lorna Smith

477. Katherine Chao

Expression profile of nanos and pumilio in mouse cell lines
University of Maryland, College Park (Maryland)
Preceptors: Dr. Alan Pang, Dr. Owen Rennert

478. Ching Chen

Screening for Osteogenesis Imperfecta mutation in WNT1 gene
University of Maryland, College Park (Maryland)
Preceptors: Dr. Joan Marini, Dr. Angela Blissett

479. Daniel Chen

Interaction between the autism-associated protein DPP6 and a voltage-gated potassium channel
Montgomery Blair High School (Maryland)
Preceptor: Dr. Dax Hoffman

480. Kevin Chen

Development of Olfaction: Brain Structure and Behavior
Winston Churchill High School (Maryland)
Preceptor: Dr. Mark Stopfer

481. Brittany Cines, Elizabeth Pogrebniak

The associations of Body Mass Index (BMI) and Fat Mass with Thyroid Function during Childhood Development
University of Maryland (Maryland), Bolles School (Florida)
Preceptor: Dr. Jack Yanovski

482. Jonathan Cotran

The Gene Targets of Regulatory RNA OxyS and Its Mechanisms
University of Maryland (Maryland)
Preceptors: Dr. Gisela Storz, Dr. Taylor Updegrave

483. Rebecca Curtis

A Novel Small Membrane Protein YneM Mediates Magnesium Limitation Stress Response
Rice University (Texas)

Preceptor: Dr. Gisela Storz

484. Alex Doyle

Monkey See, Monkey Do: EEG Evidence of a Mirror Neuron System in Newborn Rhesus Macaques (Macaca mulatta)

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Annika Paukner

485. Matthew Draelos

Saccharomyces cerevisiae RNase H2-SGS1 mutants' slow growth and the effect of cell cycle checkpoint mutations

North Carolina State University (North Carolina)

Preceptors: Dr. Robert Crouch, Dr. Hyongi Chon, Dr. Susanna Cerritelli

486. James Dreben

Screening for Mutants that are Defective in Homeotic Gene Silencing in Drosophila Melanogaster

St. Albans School (District of Columbia)

Preceptor: Dr. James Kennison

487. Miriam Eisenberg

Longitudinal associations between sleep, body image, and exercise among a nationally representative sample of US youth

George Washington University (District of Columbia)

Preceptors: Dr. Ronald Iannotti, Dr. Tilda Farhat

488. Katrina Epperson

Brain-Derived Neurotrophic Factor Haploinsufficiency and Nociception

University of Washington School of Medicine (Washington)

Preceptor: Dr. Joan Han

489. Danielle Ferguson

Development of Polyacrylamide-based Stiffness Assay for "High-Throughput" Drug Testing

Delaware State University (Delaware)

Preceptor: Dr. Silviya Zustiak

490. Melissa Fernandez

Identifying the target mRNAs of a novel small regulatory RNA in E. coli

Northern Virginia Community College (Virginia)

Preceptor: Dr. Yue Hao

491. Oakleigh Folkes

Generation of Zebrafish Model for Smith-Lemli-Opitz Syndrome using Transcription Activator-Like Effector Nucleases

Vanderbilt University (Tennessee)

Preceptor: Dr. Celine Cluzeau

492. Andrea Gougian

Activation of the Motor Cortex/Mirror Neuron System during observation of a competitive game

Ithaca College (New York)

Preceptor: Dr. Franck Amyot

493. Helia Hadavi

Human Epidermal Growth Factor Receptor Type 2 and Its Roles in Cancer: How it Works

University of Maryland, College Park (Maryland)

Preceptor: Dr. Yasaman Ardeshirpour

494. Chen Han

Relationship of Nucleoporin to the Spindle Assembly Checkpoint

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Mary Dasso

495. Deborah Hemingway

Investigating How Distinct Branches of the FGF Signaling Pathway Regulate Collective Cell Migration in the Zebrafish Lateral Line Primordium

University of Maryland, College Park (Maryland)

Preceptor: Dr. Ajay Chitnis

496. Diane Hildenberger

Genomic imprinting analysis of Igf2/H19 intergenic and H19 antisense regions in mouse models

University of Maryland, College Park (Maryland)

Preceptors: Dr. Karl Pfeifer, Dr. Megan Sampley

497. Victoria Huang

Mechanisms for Transcriptional Regulation of Melanocortin Receptor Associated Protein (MRAP) in the Adrenocortical Cell Line Y1-BS1

Johns Hopkins University (Maryland)

Preceptor: Dr. Greti Aguilera

498. Daniel Jacobs

Interaction of Novel Anticancer Drug Erastin with Lipid Bilayers Probed by Gramicidin A

Northwestern University (Illinois)

Preceptor: Dr. Tatiana Rostovtseva

499. Yari Jamali

Importance of Specific and Non-Specific Affibody-based Fluorescent Probes for Treatment of HER2 Overexpression

Walter Johnson High School (Maryland)

Preceptors: Dr. Amir Gandjbakhche, Dr. Victor Chernomordik

500. Michelle Jung

Lipid Droplet Formation in a Cell-Free System

Phillips Exeter Academy (New Hampshire)

Preceptor: Dr. Petr Chlanda

501. Kouros Kalachi

Analysis of HER2 Specific and Nonspecific Affibody-Based Fluorescent Probes

Bullis School (Maryland)

Preceptors: Dr. Amir Gandjbakhche, Dr. Victor Chernomordik

502. Toby Kang

The effect of absence of i6A-tRNA modification on glycerol catabolism and isolation of i6A lacking spontaneous revertants in S. pombe

Winston Churchill High School (Maryland)

Preceptor: Dr. Tek Lamichhane

503. Kala Karrow

Transposable Elements: Friend or Foe?

Sauk Valley Community College (Illinois)
Preceptor: Dr. Caroline Esnault

504. Kunal Khurana

Mitotic defects caused by nucleoporin fusion protein Nup98-HoxA9 in human hematopoietic malignancies

Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Sarine Markossian, Dr. Mary Dasso

505. Samuel Knecht

Effects of Glucocorticoids on the Transcriptome of the Hypothalamic Paraventricular Nucleus Region in the Rat.

St. Mary's College of Maryland (Maryland)
Preceptors: Dr. Greti Aguilera, Dr. Ying Liu

506. Annie Lee

Association Analysis of Complex Diseases Using Triads and Parent-child Pairs

Columbia University (New York)
Preceptor: Dr. Ruzong Fan

507. Hanna Lee

Gene Expression Profiling of ErbB4-Expressing Hippocampal Interneurons by Single-Cell PCR

Walt Whitman High School (Maryland)
Preceptors: Dr. Detlef Vullhorst, Dr. Andres Buonanno

508. Jiahao Liang

Characterization of 5-HT3A Receptor Expressing Hippocampal Interneurons

Magruder High School (Maryland)
Preceptors: Dr. Chris McBain, Dr. Kenneth Pelkey

509. Pawel Lubkowski

Bio-visualization

Montgomery College (Maryland)
Preceptor: Mr. Jeremy Swan

510. Emily Ma

Identification and Characterization of Intestinal Stem Cell-specific Genes in Xenopus laevis

Richard Montgomery High School (Maryland)
Preceptor: Dr. Liezhen Fu

511. Farah Malik

Cadmium, Lead, Mercury Concentrations in Premenopausal Women and Presence of CVD Biomarkers CRP and Homocysteine

Columbia University (New York)
Preceptor: Dr. Anna Pollack

512. Kelly Martin

Intrauterine Glucose Exposure and Growth in Infancy and Childhood

George Mason University (Virginia)
Preceptors: Dr. Cuilin Zhang, Dr. Katherine Bowers

513. Spyridon Mastroyannis

Are Mutations in Succinate Dehydrogenase complex II (SDHx) involved in pituitary tumorigenesis?

George Washington University School of Medicine (District of Columbia)
Preceptors: Dr. Constantine Stratakis, Dr. Paraskevi Xekouki

514. Kevin Murphy

Moving Forward Towards Handheld Hematoma Detection
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Jason Riley

515. Jennifer O'Loughlin

The effect of maternal psychiatric illness on length of gestation
Commonwealth Medical College (Pennsylvania)
Preceptor: Dr. Katherine Laughon

516. Semhar Ogbagaber

Hidden Markov Modeling Approach for Estimating Sleeping Patterns in Teenage Girls
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Paul Albert

517. Ava Omidvar

Quantitative Measure of Blood Oxygenation During Hypercapnia Using fNIRS
University of Maryland, College Park (Maryland)
Preceptor: Dr. Franck Amyot

518. Christopher Parrino

Biochemical and Light Microscopic Analysis of Neuronal Lipid Rafts: Potential Insight into ErbB4 Receptor Signaling
St. Albans School (District of Columbia)
Preceptors: Dr. Robert Mitchell, Dr. Andres Buonanno

519. Anna Poon

Maternal diet in association with birth weight and infant growth
Johns Hopkins Bloomberg School of Public Health (Maryland)
Preceptor: Dr. Edwina Yeung

520. Katherine Potocka

Possible Role for pdgfra/pdgfra Signaling in Endothelial Cell Directional Movement
Georgetown University (District of Columbia)
Preceptors: Dr. Brant Weinstein, Dr. Shlomo Krisipin

521. Nadia Rentia, Rabia Ahmad

Anatomy and Histology of the Zebrafish Adrenal
Thomas Jefferson High School for Science and Technology (Virginia), Loyola University (Maryland)
Preceptors: Dr. Eva Szarek, Dr. Constantine Stratakis

522. Torri Roark

Conductance and Kinetics of Gramicidin A Channels Can Probe Interfacial Activity of Hofmeister Ions
Indiana University Purdue University Indianapolis (Indiana)
Preceptors: Dr. Philip Gurnev, Dr. Sergey Bezrukov

523. Stacy-Ann Robinson

Identification of Novel KDM3B Interacting Proteins
Stony Brook University (New York)

Preceptors: Dr. Mary Dasso, Dr. Kara Lukasiewicz

524. Thomas Scott

Mechanisms of Protein-DNA Binding: Sliding and Hopping

Princeton University (New Jersey)

Preceptor: Dr. Donald Rau

525. Nageen Sherani

Analyzing lateral transfer of olfactory information through the brain

Gaithersburg High School (Maryland)

Preceptors: Dr. Mark Stopfer, Dr. Nitin Gupta

526. Yuliya Shneyderman

Intimate partner violence during pregnancy: Victim or perpetrator? Does it make a difference?

University of Miami Miller School of Medicine (Florida)

Preceptor: Dr. Michele Kiely

527. Preet Sohal

The Role of Gonadotropin Regulated Testicular Helicase (GRTH/DDX25) in ubiquitination in germ cells

Langley High School (Virginia)

Preceptors: Dr. Maria Dufau Catt, Dr. Chon Hwa Tsai Morris

528. Dezmond Taylor-Douglas

Characterization of the Melanocortin-3 Receptor and Its Regulation of Human Energy Balance.

Howard University College of Medicine (District of Columbia)

Preceptor: Dr. Jack Yanovski

529. Jia Tian

Optimization of Gene Knockdown in a Mouse Embryonic Carcinoma Cell Line

University of California, Berkeley (California)

Preceptors: Dr. Alan Pang, Dr. Owen Rennert

530. Nina Tserediani

Does Diet Induced Obesity Alter Protein Kinase A Expression in Key Metabolic Tissues in Mice?

Hickory High School (Virginia)

Preceptor: Dr. Edra London

531. Emily Werder

Maternal chronic disease and pregnancy complications among twin pregnancies in the Consortium on Safe Labor (2002-2008)

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Pauline Mendola

532. Isaac Yampolsky

The Effect of SAHH2 on Microtubule Dynamics and Cell Motility

Herndon High School (Virginia)

Preceptor: Dr. Alexei Arnaoutov

533. Ester Yang

Molecular design of genes and E. coli expressions systems for synthesis of cysteine-rich recombinant eukaryotic proteins in their folded state

Mount Holyoke College (Massachusetts)

Preceptors: Dr. Jerry Keith, Dr. Zuzana Biesova

534. Laura Yannai, William Stutzman

A cross-sectional and longitudinal evaluation of the relationships between body composition and the hypothalamic-pituitary-somatotropic axis

University of Maryland, College Park (Maryland), University of Maryland, College Park (Maryland)

Preceptor: Dr. Jack Yanovski

National Institute on Drug Abuse (NIDA)

535. Maame Agyapong

BIII Tubulin in Vitro Human Cellular Module

REACH! Partnership High School (Maryland)

Preceptors: Dr. William Freed, Ms. Ora Dillon-Carter

536. David Ahumada

Electrophysiological Characterization of Orbitofrontal Cortical Neurons in Cocaine-Experienced Rats

Walter Payton College Prep (Illinois)

Preceptor: Dr. Carl Lupica

537. Juliet Arcila Rojas

Role of Neuronal Pentraxin-1 in METH-induced Toxicity in the Mouse Brain

Randolph-Macon Academy (Virginia)

Preceptor: Dr. Irina Krasnova

538. Christopher Aremu

The Effects of Combined Genetic Manipulations of the Vesicular Monoamine Transporter 2 (VMAT2) and alpha-Synuclein on Amphetamine Stimulated Behavior

Tome School (Maryland)

Preceptors: Dr. George Uhl, Dr. Scott Hall

539. Elizabeth Arnold

The effects of cadherin 13 knockout on behavior relevant to attention-deficit hyperactivity disorder

University of Maryland, College Park (Maryland)

Preceptors: Dr. George Uhl, Dr. Frank Hall

540. Navkiran Aujla

Encoding the value of actions: The effect of orbitofrontal cortical input on striatal neural activity during decision making

Whitman College (Washington)

Preceptor: Mr. Thomas Stalnaker

541. Patricia Bai

GFP Reporter Plasmids for Detecting Tubulin Expression in vitro

Dulaney High School (Maryland)

Preceptors: Dr. William Freed, Mr. Mark Coggiano

542. Nailah Barry

Cocaine Conditioned Place Preference in NrCAM Knockout Mice

Charlotte Amalie High School (Virgin Islands)

Preceptors: Dr. George Uhl, Dr. Frank Hall

543. Grace Blair

Exploring the contribution of the orbitofrontal cortex to the computation of aggregate prediction error in a superconditioning task

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Guillermo Esber, Dr. Geoffrey Schoenbaum

544. Bernard Boateng

Effects of Methamphetamine-Self Administration on Avp, Avpr1b, and CRF mRNA levels in the Rat Nucleus Accumbens.

Florida A&M University (Florida)

Preceptor: Dr. Subramaniam Jayanthi

545. Syrena Bracey

The Effects of Nicotine on Rats Previously Exposed to THC

St. Stephen's & St. Agnes School (Virginia)

Preceptors: Dr. Charles Schindler, Dr. Leigh Panlilio

546. George Burton

Predicting Smoking Risk Perception in Smokers With and Without Schizophrenia

Salisbury University (Maryland)

Preceptor: Dr. Stephen Heishman

547. Natasha Ceballos

The functional roles of Sig-1R nuclear envelope translocation in cocaine treatment

Good Hope School (Virgin Islands)

Preceptors: Dr. Chein-Ying Chuang, Dr. Tsung-Ping Su

548. Jennifer Cha

Identification of a mGlu 5b-mAChR M4 Heteromer in HEK293 Cells Via Bioluminescence Resonance Energy Transfer (BRET)

Cherry Hill High School East (New Jersey)

Preceptors: Dr. Ning-Sheng Cai, Dr. Sergi Ferré

549. Shibani Chettri

Epigenetic basis of methamphetamine-induced changes in Otx2, Avp, Crh, and Pmch mRNA expression

Paint Branch High School (Maryland)

Preceptors: Dr. Bruce Ladenheim, Dr. Jean Lud Cadet

550. Safiya Correia

Cellular Composition of the A10 Region

Boston University (Massachusetts)

Preceptors: Dr. Marisela Morales, Dr. Hui-Ling Wang

551. Damilola Dada

Analysis of Heart Lipids Using MALDI- MS

Clear Falls High School (Texas)

Preceptors: Dr. Amina Woods, Dr. Ludovic Muller

552. Zhuoheng Deng, Kenneth Baxter

Epigenetic Bases of Methamphetamine-Induced Changes in the Expression of Glutamate NMDA Receptor Subunits

Vanderbilt University (Tennessee), Pennsylvania State University (Pennsylvania)
Preceptors: Mr. Mike McCoy, Dr. Jean Lud Cadet

553. Rachel Feinberg

Effect of BDNF Val66Met and Childhood Trauma on Brain Volume and Resting-State Functional Connectivity in Healthy Volunteers

University of Denver (Colorado)

Preceptor: Dr. Mary Lee

554. Adele Fu

The Protective Effect of Incretin in Cell Culture

Marriotts Ridge High School (Maryland)

Preceptors: Dr. Yun Wang, Dr. Yi He

555. Stephanie Golub

The effects of gene knockout of the vesicular monoamine transporter 2 (VMAT2;SLC18A2) and the dopamine transporter (DAT;SLC3A6) on taste sensitivity.

University of Maryland, College Park (Maryland)

Preceptors: Dr. George Uhl, Dr. F. Scott Hall

556. Anthony Gonzaga

The effects of BMP-7 on the Extracellular Matrix in Primary Neuron Cultures

Lakeside High School (Washington)

Preceptor: Dr. Brandon Harvey

557. Kayla Harley

Influence of Prenatal Drug Exposure on the Adolescent Brain

Charles H. Flowers High School (Maryland)

Preceptor: Dr. Betty Jo Salmeron

558. Kathleen Harrelson

Intensive Physiological Monitoring in the Field: Stress, Drugs, and Craving

University of Maryland, College Park (Maryland)

Preceptor: Dr. Kenzie Preston

559. George Hartstein

Assessing the Ability of JM6 to Prevent Neurodegeneration in a Mouse Model of Alzheimer's Disease

Emory University (Georgia)

Preceptor: Dr. Charles Schindler

560. Isobel Hawes

Sigma-1 receptor chaperone regulates the stability and phosphorylation of Nrf2

Science and Mathematics Academy (Maryland)

Preceptors: Dr. Shao-an Wang, Dr. Shang-Yi Tsai

561. Sydney Hawkins

Involvement of Dopamine D4 Receptor and Reinforcing Effects of Food: A Behavioral-Economic Assessment

James Irwin Charter High School (Colorado)

Preceptors: Dr. Jonathon Katz, Mrs. Dawn French-Evans

562. Keenan Hope

Sigma 1 Receptor Antagonists Prevent Cocaine-Induced Locomotion and NAc Firing Adaptations

Long Reach Highschool (Maryland)

Preceptor: Dr. Kourrich Said

563. Stephanie Hopkins-Spencer

A Pharmacological Analysis of the Affects of Cocaine On Locomotion in Planaria (Dugesia dorotocephala)

Charter School of Wilmington (Delaware)

Preceptors: Dr. Jonathan Katz, Mrs. Bettye Campbell

564. Xingyu Hou

Molecular characterization of dorsal striatum neurons activated by methamphetamine

University of Maryland, College Park (Maryland)

Preceptor: Dr. Qing Rong Liu

565. Alexandra Houston-Ludlam

The effects of gene knockout of the vesicular monoamine transporter 2 (VMAT2; SLC18A2) and the dopamine transporter (DAT; SLC3A6) on ethanol consumption and escalation in mice.

University of Maryland, College Park (Maryland)

Preceptors: Dr. George Uhl, Dr. F. Scott Hall

566. Helen Kong

Immediate Early Gene expression in the Striatum of a Mouse Model of Slow Dopamine Degeneration

Centennial High School (Maryland)

Preceptor: Dr. Cristina Backman

567. Bryson Lochte

Behavioral Characterization of PTPRD Knockout Mice

Dartmouth College (New Hampshire)

Preceptor: Dr. Jana Drgonova

568. Isaiah Maze

Nicotine Consumption in Cadherin 13 Knockout Mice

Paul Laurence Dunbar High School (Maryland)

Preceptors: Dr. George Uhl, Dr. Frank Hall

569. Biko McMillan

Effects of Modafinil on Cocaine Self-Administration in Rats

St. Croix Educational Complex High School (Virgin Islands)

Preceptors: Dr. Zhengxiong Xi, Dr. Hong-Jung Yang

570. Yamini Naidu

Characterization of Intracellular Signaling in Cells expressing the Dopamine D1 Receptor and the Dopamine D1-D3 Heteromer

Valley Catholic High School (Oregon)

Preceptors: Dr. Xavier Guitart, Dr. Sergi Ferre

571. Joshua Newman

Combining Focused Ultrasound and Microbubbles for Localized BBB Disruption in Rat Striatum

University of Virginia (Virginia)

Preceptor: Dr. Brandon Harvey

572. Tommy Nguyen

Effects of Food Restriction and Amphetamine on Tone Seeking Behavior in Rats

University of Maryland School of Medicine (Maryland)

Preceptor: Dr. Satoshi Ikemoto

573. Kelli Pinkney

The effects of METH self administration on the mRNA levels of the Nr4a immediate early gene family in the rat hippocampus

Maritime Industries Academy (Maryland)

Preceptors: Dr. Ingrid Tulloch, Dr. Jean Lud Cadet

574. Gazi Rashid

A Functional Imaging Study of Risk-Taking Behaviors in MDMA Users

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Elliot Stein

575. Connor Reeves

Glutamatergic Neurons in the Mesohabenular Pathway in Rats

University of Maryland, College Park (Maryland)

Preceptors: Dr. Marisela Morales, Dr. David Root

576. Rodden Reyes

The C-Terminus of Mesencephalic Astrocyte Derived Neurotrophic factor and ER stress induced protein secretion

Patterson High School (Maryland)

Preceptor: Dr. Mark Henderson

577. Erica Richardson

Double Labeling Immunohistochemistry for Parvalbumin and Fos in Rat Striatum

Western High School (Maryland)

Preceptor: Dr. Bruce Hope

578. Erin Richardson

Effects of dopamine neuron inhibition on Pavlovian discrimination learning with food in mice

Western High School (Maryland)

Preceptor: Dr. Satoshi Ikemoto

579. Sarah Schwarzschild

Possible Role of Peripheral Effect of Nicotine on the Locomotor Sensitization

Johns Hopkins University (Maryland)

Preceptor: Dr. Eugene Kiyatkin

580. Christine Shen

Modifications on Voltammetric Sensors for Dopamine Detection

Marriotts Ridge High School (Maryland)

Preceptor: Dr. Yun Wang

581. Katriana Simmon

Correlation of resting state functional connectivity (rsFC) with symptoms of trauma, dissociation and difficulties in emotional regulation in both healthy controls and drug users

Holy Innocents' Episcopal School (Georgia)

Preceptor: Dr. Mary Lee

582. Joy Stewart

Escalation of Cocaine Self-Administration in Rats with Nosepoke as an Operant

Morgan State University (Maryland)

Preceptor: Dr. Charles Schindler

583. Shatevia Stone

Daysimeter determines That people who use Cocaine and/or Heroin have Disrupted Circadian (Day/Night) Cycles

South Carolina State University (South Carolina)

Preceptor: Dr. Kenzie Preston

584. Saheedat Sulaimon

How does rat whisker stimulation modulate ongoing activity? An fMRI study

Hun School of Princeton (New Jersey)

Preceptors: Dr. Elliot Stein, Dr. Hanbing Lu

585. Angela Udofa

Neurotensin and Neuropeptide B mRNA expression in the Nucleus Accumbens of Methamphetamine Self-Administering Rats

Mckinley Senior High School (Louisiana)

Preceptor: Dr. Subramaniam Jayanthi

586. Yasmeen Watson

Erasing Memory

Agnes Irwin School (Pennsylvania)

Preceptor: Dr. Charles Pickens

587. Guang Yang

Predicting Cocaine Dependency from Brain Circuitry using Machine Learning

University of California, San Diego (California)

Preceptor: Dr. Vani Pariyadath

588. Gabriel Yepes

Mapping the infra and prelimbic cortex - nucleus accumbens projections by electrical stimulation and MAP kinase phosphorylation.

Montgomery College (Maryland)

Preceptor: Dr. Cesar Quiroz-Molina

589. Serena Yin

Effects of Cocaine on the Expression of Cannabinoid CB2 Receptors in Mouse Brain

Johns Hopkins University (Maryland)

Preceptor: Dr. Zheng-Xiong Xi

National Institute on Deafness and Other Communication Disorders (NIDCD)

590. Daniel Abraham

A New Algorithm for Improving the Stability of Group Independent Component Analysis of fMRI Functional Connectivity

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Yisheng Xu, Dr. Allen Braun

591. Alexandra Boukhalova

Clic on taperin

Winston Churchill High School (Maryland)

Preceptors: Dr. Inna Belyantseva, Dr. Thomas Friedman

592. Camila Chile

Cigarette Smoke Induces Proinflammatory and Proangiogenic Cytokines and Chemokines in Lung, Head and Neck Squamous Cell Carcinoma

Gaithersburg High School (Maryland)

Preceptors: Dr. Carter Van Waes, Dr. Zhong Chen

593. Lucy Chu

Gender Differences in Neural Correlates of Disfluencies in Spontaneous Speech

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Allen Braun, Ms. Katherine Swett

594. Esther Ogbuokiri

Determining the role of EphA7 in cochlear development

Charles Herbert Flowers High School (Maryland)

Preceptors: Dr. Matt Kelly, Dr. Thomas Coate

595. Vikram Siberry

Examining Turn Taking in Natural Conversation Using fMRI

Sherwood High School (Maryland)

Preceptor: Dr. Allen Braun

596. Stephanie Zhang

Determining the Areas of Undetected Discourse Deficits in Moderate Aphasics

Poolesville High School (Maryland)

Preceptor: Dr. Allen Braun

National Institute of Dental and Craniofacial Research (NIDCR)

597. Vivian Ariail

Oral Graft-versus-Host Disease: correlation of histopathologic features and salivary inflammatory mediators

Ohio State University Dental School (Ohio)

Preceptor: Dr. Jacqueline Mays

598. Susan Chen

Comparison between Primary Epithelial Cells vs Immortalized Cell Lines of the Human Salivary Gland

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Preceptors: Dr. Shyh-Ing Jang, Dr. Ilias Alevizos

599. Karthik Cherukuri

Isoform specific roles of TGF beta in tooth and bone mineralization

Case Western Reserve University (Ohio)

Preceptor: Dr. Ashok Kulkarni

600. Kristopher Cooper

Analysis of Expression Patterns of the Helix-Loop-Helix Transcription Factor CartD in Tooth Development

University of Connecticut School of Dental Medicine (Connecticut)

Preceptor: Dr. Yoshi Yamada

601. Lisa Deng

Gene expression in Wild Type vs. ID3 Knockout Naive T CD4 T Cells when polarized to Treg or Th9 Phenotypes

Walt Whitman Highschool (Maryland)

Preceptors: Dr. Hiroko Nakatsukasa, Dr. Joanne Konkel

602. Bahar Gheyzada

Characterization of Gene Expression in Lithium Treated Sea Star Embryos.

Northern Virginia Community College (Virginia)

Preceptors: Dr. Rocio Benabentos, Dr. Lynne Angerer

603. Aaron Gordon

Autoantibody Analysis of Twins Discordant for Autoimmune Disease

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604. Jeffrey Hong

Comparison of Bone Marrow Stromal Cell Growth in Two vs. Three Dimensional Tissue Culture

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605. Gordon Hu

Genes Associated with Inhibitor of DNA-binding protein 3 in CD4+CD8+ T Cell Expression

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606. Emily Huang

Analysis of diabetes-related autoantibodies in serum

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Preceptor: Dr. Tao Cai

607. Danting Liu

Induction of Autophagy by Survivin Suppressant in Head and Neck Cancer Cells

Montgomery Blair High School (Maryland)

Preceptors: Dr. Zhi-Jun Sun, Dr. Ashok Kulkarni

608. Philip Mannes

The First 500 Milliseconds of Pain

Bethesda-Chevy Chase High School (Maryland)

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609. Dariya Momot

Toxicity and Biodistribution of the Serotype 2 Recombinant Adeno-Associated Viral Vector, Encoding Aquaporin-1, After Retroductal Delivery to a Single Mouse Parotid Gland

Temple University Kornberg School of Dentistry (Pennsylvania)

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610. Kenny Robles

FGF signaling reduces Wnt expression and impairs innervation of the SMG.

University of California, Los Angeles (California)

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611. Young H Son

Investigating the role of O-glycosylation in secretory apparatus structure

University of Connecticut School of Dental Medicine (Connecticut)

Preceptors: Dr. E Tian, Dr. Kelly Ten Hagen

612. Emily Tschetter

Developing microbiologic tools for the detection of initiation of O-glycosylation in living cells

University of Nebraska Medical Center, College of Dentistry (Nebraska)

Preceptor: Dr. Raul Rojas

613. Andrew Weaver

Mechanisms of E-cadherin Turnover During Developmental Epithelial-Mesenchymal Transitions

University of Minnesota School of Dentistry (Minnesota)

Preceptors: Dr. Kenneth Yamada, Dr. Will Daley

614. Daniel Zemel

Developmental Expression of Amelogenin-Cre

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Preceptors: Dr. Ashok Kulkarni, Mr. Andrew Cho

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

615. Fallon Bader

Predicting Adaptive Thermogenesis: A Weight Loss Study

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616. Caroline Cantilena

Does knowledge confer will power?: A longitudinal examination of metabolic parameters.

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617. Helen Cheung

Comparison of Methods for Measuring Calorie Expenditure in Humans

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618. Mahmood, Danial

Liver Disease in Stem Cell Transplant Patients

Wilbert Tucker Woodson High School (Virginia)

Preceptors: Dr. Theo Heller, Dr. Niharika Samala

619. Sylvia Deppen

Predicting the Progression of Disease in Amyotrophic Lateral Sclerosis Patients

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Vipul Periwal

620. Noah Earland, Shokhi Goel

Tracing Urine Exosome Zip Codes from Kidney Sections using Nephron Specific Lectin-Quantum Dot Complexes

Springfield Highschool (Pennsylvania), Indiana University (Indiana)
Preceptors: Dr. Peter Yuen, Dr. Robert Star

621. Jolisa Geneeha

The effect of insulin and different concentrations of erythropoietin on erythroid progenitor cells in a two-phase cell culture system

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622. Chanda Green

Hsp40 Ydj1-Sis1 Hybrids Effect on [PSI⁺] Propagation

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Preceptor: Dr. Daniel Masison

623. Mitchell Greenberg

Parental recognition and perception of commercially available foods and beverages containing NNS

University of Michigan (Michigan)
Preceptor: Dr. Kristina Rother

624. Andy Guo

Incorporation of an RNA Aptamer Mimic of Green Fluorescent Protein into the HCV Genome for Live Virus Imaging Study

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625. Jennifer Jin

Understanding the Basis of the Fragile X Syndrome

Winston Churchill High School (Maryland)
Preceptors: Dr. Karen Usdin, Dr. Daman Kumari

626. Candace Johnson

The effects of MK-5046 and its correlation with BSR-3 in wild type and BSR-3 Knockout Mice

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627. David Kaufman

RNase H: Mechanism of Metal-Dependent Catalysis

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628. Elizabeth Liu

Understanding of JNK/GSK-3 Pathway in LGsKO Mice

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629. Joseph Marotta

Heme efflux from mitochondria via heme-binding proteins involved in heme biosynthesis in yeast and mammalian cells

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630. Nismaliry Martinez Garcia

The recruitment of the enzymes of O-GlcNAc cycling to chromatin: Interplay between histone acetylation and GlcNAcylation

Pontificia Universidad Catolica de Puerto Rico (Puerto Rico)
Preceptors: Dr. Kate Harwood, Dr. Jonh Hanover

631. Zev Medoff

The histone H3K79 methyltransferase grappa is required for Drosophila sexual differentiation

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632. Daniel Ni

Characterization of the Macropinocytosis Pathway for the Entry of Hepatitis C Virus

Thomas Jefferson High School for Science and Technology (Virginia)

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633. Anna Panyutin

Effect of MC4 Receptor against MTII on Body Temperature in C57BL/6 Mice

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Preceptor: Dr. Oksana Gavrilova

634. Antonio Perfecto

Total Energy Expenditure measured by doubly labeled water: Can we measure μ L samples?

University of Hawaii at Manoa (Hawaii)

Preceptors: Dr. Peter Walter, Ms. Manisha Shrestha

635. Lisbeth Reyes-Fondeur

Measures of Food Liking and Wanting in Obese and Lean Humans

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636. Sunny Rishi, Umesh Wankhade

Role of TGF-beta Signaling in Adipocyte Differentiation

Oakland University (Michigan), Virginia Polytechnic Institute and State University (Virginia)

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637. Alfred Rotimi

Challenges associated with Using A1C to Diagnose Glucose Tolerance Status in Africans

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638. Janelle Thomas

Cloning and Expression of the Artemis Protein

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639. Aleron Toledo

Is subjective Socio-Economic Status and Food Security related to measures of Adiposity & Behavior?

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640. Angela R. Valdés Márquez

Erythropoietin (EPO) and Regulation of Macrophage Cytokine Response in vitro

University of Puerto Rico, Rio Piedras (Puerto Rico)

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641. Myles Wagner

Integration and Characterization of Transgenic YFP Reporter of OGT and OGA in C. elegans
Montgomery Blair High School (Maryland)
Preceptors: Dr. Peng Wang, Dr. John Hanover

642. Andrew Winter

Molecular Study of Recombination Intermediates using RecA: Assay Development
Yale University (Connecticut)
Preceptor: Dr. Wei Yang

643. Jacqueline Yang

Selective Synthesis of 1,2,3,6,2',3',4',6'-octa-acetyl-beta-lactose
Northwestern University (Illinois)
Preceptors: Dr. Paul Kovac, Dr. Peng

644. Justin Young

Comparative Analysis of CHD Family Chromatin Remodelers
Yale University (Connecticut)
Preceptors: Dr. Alan Kimmel, Mr. James Platt

645. Ashley Yuen

The Effects of a Novel Drug Combination Targeting the Copper Transport Pathway on Platinum Resistant Cancer Cells
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Preceptor: Dr. Cristine Chisholm

646. Lamiya Zaveri

Optimizing the Reaction Conditions for IN-DNA Complex Assembly
Potomac Falls High School (Virginia)
Preceptors: Dr. Robert Craigie, Dr. Min Li

647. Celestino Zayas Morales

Validation of variants identified in Whole Genome Sequencing of Pima Indians
Pontifical Catholic University of Puerto Rico (Puerto Rico)
Preceptors: Dr. Leslie Baier, Dr. Yunhua Muller

648. Yuqi Zhang

Analyzing localization and dynamics of key players in the de novo sphingolipid synthesis pathway
Johns Hopkins University (Maryland)
Preceptor: Dr. Richard Proia

649. Tingrui Zhao

Mapping of SIRT-1 Mediated Gene Expression in Aging Animals
University of Maryland, College Park (Maryland)
Preceptors: Dr. Chuxia Deng, Dr. Rui-Hong Wang

650. Xinyi Zhu

Exploring the incorporation of unnatural monosaccharides into C.elegans glycoconjugates
University of Maryland, College Park (Maryland)
Preceptors: Dr. Michelle Bond, Dr. John Hanover

National Institute of Environmental Health Sciences (NIEHS)

651. Jenny Liao

The Characterization of Phosphorylation and Non-phosphorylation Mimetic SIRT1 Knock-In Mice
(North Carolina)

Preceptor: Dr. Jing Lu

652. Alexis Wilson

Preliminary Results on Demographics, Illness Features and Tobacco Exposures from a Myositis Patient Registry

University of Florida (Florida)

Preceptors: Dr. Lisa Rider, Dr. Frederick Miller

National Institute of Mental Health (NIMH)

653. Philip Abboud

Determining the bioactivity of C-terminally modified Pituitary Adenylate Cyclase Activating Polypeptide (PACAP-38) peptides at the PAC1 receptor

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654. Vanya Aggarwal

Endothelial function and migraine

St. Bonaventure University (New York)

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655. Lauren Demers

Characterizing Maternal and Paternal Contributions to Pup Care in C57 and Transgenic Mice: Investigating Oxytocin and Vasopressin

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656. Evan Giangrande

A meta-analysis of generalized cognitive impairment in schizophrenia with an examination of regional differences

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657. Matthew Grossman

Do Ask, Do Tell: Assessing Sexual Issues in Adolescent Cancer Patients

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658. Daniel Hyde

Proteomic Analysis of Microdissected Formalin-Fixed-Paraffin-Embedded Tissue

University of Maryland, College Park (Maryland)

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659. Anna Isaacs

A Volumetric Study of the Amygdala and Hippocampus in Social Anxiety and Generalized Anxiety Disorders

Vanderbilt University (Tennessee)

Preceptors: Dr. Alex Martin, Dr. Greg Wallace

660. Monet Jefferies

Further Analysis of Systematic Treatment Enhancement Program for Bipolar Disorder (STEP-BD): Mixed Episode Criteria

Prince Georges Community College (Maryland)

Preceptors: Dr. Carlos Zarate, Jr, Ms. Sara Guevara

661. Ling Jing

Next-Generation Sequencing in a Large Pedigree Identifies Rare Variants Shared by Relatives with Bipolar Disorder

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Preceptors: Dr. Francis McMahon, Dr. David Chen

662. Michael Kader

Baclofen Ameliorates Behavioral Deficits in a Mouse Model of Fragile-X Syndrome

Brown University (Rhode Island)

Preceptors: Dr. Mei Qin, Dr. Carolyn Smith

663. Sindhura Kolachana

The Role of Dysbindin, a Schizophrenia Susceptible Gene, on Structural Plasticity of Hippocampal Neurons

Thomas Jefferson High School for Science and Technology (Virginia)

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664. Jonae Lloyd

Onset of Schizophrenia in a Childhood Cohort

University of Pittsburgh (Pennsylvania)

Preceptors: Mr. Peter Gochman, Dr. Judith Rapoport

665. Eliza Lupone

Methods for Functional to Structural Alignment

Stanford University (California)

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666. Cady Lyon

Decoding the Contents of Brain Regions Involved in Navigation and Scene Recognition

Washington University in St. Louis (Missouri)

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667. Teneisha McIntyre

Examining The Social Responsiveness Scale (SRS) in Children With Autism

Howard University (District of Columbia)

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668. Monica Mehta

Effect of Psychogenic Stress on T-Cell Phenotype and Peripheral Cytokines in Mice

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669. Kelechi Ndukwe

Splicing Variants of estrogen receptor –alpha (ESR1) in human Prefrontal Cortex

City University of New York- Lehman College (New York)

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670. Aurelie Niyongabo

Characterization of a Novel Retroviral Envelope from Koalas in U.S. Zoos

Gaithersburg High School (Maryland)

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671. Jonathan O'Rawe

Neural Substrates of Auditory Memory in the Macaque Monkey

Stony Brook University (New York)

Preceptors: Dr. Mortimer Mishkin, Dr. Richard Saunders

672. Grace SoYoung Park, Diana Vesselinovitch

Genetic Variation in Ube3a is Associated with Expression of Ube3a and Related Genes in Human Prefrontal Cortex

University of Chicago (Illinois), Lehigh University (Pennsylvania)

Preceptor: Dr. Joel Kleinman

673. Meghana Patel

Are the Enzymes Involved in the Catecholamine Biosynthetic Pathway Locally Synthesized in Axons?

Poolesville High School (Maryland)

Preceptors: Dr. Barry Kaplan, Dr. Noreen Gervasi

674. Joseph Posner

Frequency-Specific Connectivity in the Macaque Auditory Cortex

Community College of Baltimore County (Maryland)

Preceptors: Dr. Mortimer Mishkin, Dr. Richard Saunders

675. Sarah Siddiqui

Induced-anxiety disrupts cognition in GAD and SAD patients

Gaithersburg High School (Maryland)

Preceptor: Dr. Katherine Vytal

676. Liza Sitz

Hindrance of Hemostasis? SSRI Use in Patients Undergoing Chemotherapy

St. Mary's College of Maryland (Maryland)

Preceptors: Dr. Maryland Pao, Dr. Lisa Horowitz

677. Leslie Smith

Systematic Treatment Enhancement Program for Bipolar Disorder Data Analysis: Increased Activity

New York University (New York)

Preceptor: Dr. Carlos Zarate

678. Bathsheba Wariso

Perimenopausal Depression: Impact on Quality of Life, Social Adjustment, and Disability

Stillman College (Alabama)

Preceptor: Dr. Peter Schmidt

679. Susan Yang

Association between physical activity and mental health in adolescents

Clarksburg High School (Maryland)

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680. Cynthia Zhang

How is sleep related to eating behaviors in adolescents
Clarksburg High School (Maryland)
Preceptor: Dr. Kathleen Merikangas

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681. Sophia Alfano

Identifying functional connectivity in resting state fMRI data of patients with focal hand dystonia
Minneapolis Community and Technical College (Minnesota)
Preceptor: Dr. Silvina Horovitz

682. Daniel Alvarez

A Novel Method to Assess Vesicular and Extravesicular Storage of Catecholamines
Dartmouth College (New Hampshire)
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683. Norah Alwash

Identification of Lead Functionally Selective Agonists that Stimulate D2 Dopamine Receptor Mediated G-protein Signaling
Sunny Hills High School (California)
Preceptors: Dr. David Sibley, Mr. Adrian Padron

684. Allison Arai

MRI Evaluation of Nitric Oxide Inhalation as a Treatment for Ischemic Stroke
University of Maryland, College Park (Maryland)
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685. Aaron Artiles

Alcohol effects in patients with Essential Tremor
Boston College (Massachusetts)
Preceptor: Dr. Dietrich Haubenberger

686. Alexa Bandeian

Tracking oligodendrocyte differentiation and JCV infection
University of Michigan (Michigan)
Preceptors: Dr. Maria Chiara Monaco, Dr. Eugene Major

687. Alice E. Bandeian

B cell subpopulations in human peripheral blood and their relevance in JCV infection
Walter Johnson High School (Maryland)
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688. Nathaniel Bradley

Understanding the Glial Phenotype in alpha-Dystroglycanopathies
Johns Hopkins University (Maryland)
Preceptors: Dr. Carsten Bonnemann, Ms. Kristen Zukosky Perkins

689. Laura Braun

Mirror Movements and DTI of the Corpus Callosum in Primary Lateral Sclerosis Patients
Syracuse University (New York)

Preceptor: Dr. Mary Kay Floeter

690. Mason Brown

The role of re-operation for recurrent malignant gliomas
Indiana University Purdue University Indianapolis (Indiana)
Preceptor: Dr. John Park

691. Fang Cao, Joseph Nugent

Morphological Properties of Brainstem Excitatory and Inhibitory Neurons Controlling Breathing in Mammals
University of Maryland, College Park (Maryland), Johns Hopkins University (Maryland)
Preceptor: Dr. Jeffery Smith

692. Kristina Chapple

Startle reflex and autonomic response to audio induced aversive imagery
Coppin State University (Maryland)
Preceptor: Dr. Kathrin Czarnecki

693. Tynan Clarke

Hippocampal Volume and Activation During a Language Task
Carthage College (Wisconsin)
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694. Paba De Alwis

Longitudinal Analysis of Diffusion Tensor Spectroscopy to Evaluate Neurodegeneration in Multiple Sclerosis
Cornell University (New York)
Preceptors: Ms. Emily Wood, Dr. Daniel Reich

695. Angel de la Cruz Landrau

Activation of Potassium Channels
Universidad Central del Caribe (Puerto Rico)
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696. Joelle Dorskind

Search for endogenous EBV infection in the intrathecal compartment of Multiple Sclerosis patients
Lehigh University (Pennsylvania)
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697. Vindhya Ekanayake

NEO-PI-R domain and facet-level comparisons of personality in two motor conversion disorder subtypes
Purdue University (Indiana)
Preceptors: Dr. Sarah Kranick, Dr. Mark Hallett

698. Katherine Eyring, Gailyn Gabriel

Brain Rhythms in an Animal Model of Parkinson's Disease: Cortical Gamma Activity in L-dopa Induced Dyskinesia
Wellesley College (Maryland), Thomas S. Wootton High School (Maryland)
Preceptor: Dr. Judith Walters

699. Sophia Francis

Mechanisms of muscle drive in childhood-onset hemidystonia using EEG-EMG and EMG-EMG coherence analysis

University of Maryland, College Park (Maryland)
Preceptors: Dr. Sahana Kukke, Dr. Mark Hallett

700. Samantha Frank

Motor Effort for Rewards Increases Excitability of the Motor Cortex

Colgate University (New York)

Preceptors: Dr. Aysha Keisler, Dr. Eric Wasserman

701. Abigail Fulp

The Effect of Vertical and Horizontal Lines in Virtual Reality on Freezing of Gait for Parkinson's Disease Patients

North Carolina State University (North Carolina)

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702. Charise Garber

Tarantula Toxins Bind to Voltage Sensing Domain of Ion Channels

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703. Allison Girasole

Characterization of excitatory inputs to midbrain dopaminergic neurons

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704. Benjamin Haner

Why does Multiple Sclerosis Affect Different Races in Different Ways?

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705. Rogerio Huang

Validating Modulators of SMN Protein Levels from a Genome-Wide RNAi Screen Using Spinal Muscular Atrophy Patient-Derived Cells

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706. Cherella Hughes

Production Purification of HIV TAT

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707. Tempest Jamison

The Effects of Penetrating Traumatic Brain Injury on Legal Third Party Punishment

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708. Qianjia Jiang

Gene Mutation and Acoustic Schwannoma Growth Rates in Neurofibromatosis Type II

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709. Desiree Jones

Characterize the Transcallosal Functional Connectivity by Optogenetics and fMRI

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710. MacArthur Jones

Myelin Formation in the Brain

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711. Wayneho Kam

Cortical Localization of Language Using Auditory Categorization and Description Decision Tasks in the MEG

Jefferson Medical College (Pennsylvania)

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712. Gloria Kim

Characterization of anti glioma immune response

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713. Deborah Kinikini

PD Studies

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714. Winston Liu

Semi-automatic Algorithms for Spinal Cord Volume Analysis

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715. Graham Lobel

Examination of Lipid Droplet Proteins in VHL Disease Hemangioblastomas

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716. Danielle Locust

The Effect of Dimethyl Fumarate on Human Herpesvirus-6 infected cells

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717. Stephanie Lyden

Blood Biomarkers in Acute Stroke

University of Washington School of Medicine (Washington)

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718. Laura Malone

Forgetting across time in visuomotor adaptation

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Marco Sandrini

719. LaShawn Medicine Horn

Mapping Neuroplasticity and Tissue Remodeling after Brain Injury using Multiplex Florescence Immunohistochemistry

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720. Arthur Morrissette

Quantitative DTI and Structural Analysis and Cognitive Functions in ALS and PLS Patients

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Avner Medved

721. Kekahiau Naeole

Transcranial Magnetic Stimulation Studies of Cortical Networks

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722. Preetha Nandi

Identification of Substituted Benzazepines as Functionally Selective Ligands of the D1 Dopamine Receptor

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723. David Nguyen

Understanding the clinical and scientific characteristics of Collagen V1 Congenital Muscular Dystrophy

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Preceptor: Ms. Ying Hu

724. Jacqueline Nichols

The Catechins: Developing Neurotherapeutic Agents for HAND

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Joe Steiner

725. Madison Orlow

Resveratrol Analogs as Potential Neuroprotectants

Wilbert Tucker Woodson High School (Virginia)

Preceptor: Dr. Joe Steiner

726. Jasmine Outlaw

Does Spontaneous Oxidation Interfere with Catecholamine Assays by HPLC with Electrochemical Detection?

Agnes Irwin School (Pennsylvania)

Preceptor: Dr. David Goldstein

727. Carlos E. Perez

Metabolic fate of the norepinephrine prodrug L-DOPS in PC-12 cells

Massachusetts College of Pharmacy and Health Sciences (Massachusetts)

Preceptor: Dr. David Goldstein

728. Anna Pham

Distinguishing the Presence of Syntaxin Subtypes in Hippocampal Neurons vs. Glia

University of Maryland, College Park (Maryland)

Preceptor: Dr. Ayse Dosemeci

729. Andrea Poon

Muscle Ultrasound as a Biomarker for Congenital Muscular Dystrophy

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Katy Meilleur, Dr. Jahannaz Dastgir, Dr. Carsten Bonnemann

730. Eric Powell

Paroxetine: Identification of a Neuroprotective Therapeutic Agent through Neurotoxicity Screening

University of Maryland, College Park (Maryland)

Preceptor: Dr. Joe Steiner

731. Ariella Prosch Newman

A combined MRI-histological atlas of the marmoset brain

Canandaigua Academy (New York)

Preceptors: Dr. Afonso Silva, Dr. John Newman

732. Sundeep Saini

Improved Prediction of Hemorrhagic Transformation in Acute Stroke Patients using Lowered Cerebral Blood Volume on MRI and Clinical Severity by NIHSS.

University of Medicine and Dentistry of New Jersey School of Osteopathic Medicine (New Jersey)

Preceptor: Dr. Marie Luby

733. Akanksha Saxena

Pain and Quality of life in Patients with Syringomyelia

University of Texas at Dallas (Texas)

Preceptor: Dr. John Heiss

734. Aaron Sharp

NINDS Stem Cell Data Management System Functionality Upgrade: Analyze, Visualize and Report Group Comparison

Brigham Young University (Utah)

Preceptors: Dr. Yang Fann, Mr. Amarendra Yavatkar

735. Nicholas Stoler

Automatic EvoPrinting of the Mouse Genome

Johns Hopkins University (Maryland)

Preceptors: Dr. Yang Fann, Mr. Amarendra Yavatkar

736. Yan Sun

Expression and Distribution of Exocytosis-related Proteins in Mouse Chromaffin Cells.

James Madison High School (Virginia)

Preceptors: Dr. Weidong Zhao, Dr. Ling-Gang Wu

737. Barbara Terzic

Targeting an E3 Ligase for Treating Spinal Muscular Atrophy

Arizona State University (Arizona)

Preceptors: Dr. Kenneth Fischbeck, Ms. Deborah Kwon

738. Ryan Toledo

Heart Rate Variability and Cortisol Diurnal Profiles in Patients with Functional Movement Disorders

University of Maryland, College Park (Maryland)

Preceptor: Dr. Kathrin Czarnecki

739. Connor Trexler

Effect of HERV-K Virus on Brains in Mice

University of Maryland, College Park (Maryland)

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740. Angad Uppal

The Effects of Inhibitory TMS over M1 on Implicit Learning and its Neural Correlates

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741. Jasmine Walton

Cure CMD Weekend Clinic

McDaniel College (Maryland)

Preceptors: Dr. Rita Devine, Mrs. Angela Kokkinis

742. Benjamin Wang

Genetic dissection of Notch pathway interacting genes in Drosophila melanogaster

Duke University (North Carolina)

Preceptors: Dr. Edward Giniger, Dr. Jeong-Kuen Song

743. Amy Wu

Nuclear and mitochondria genome editing by TALEN technology

Rutgers University (New Jersey)

Preceptor: Dr. Chunxin Wang

744. Sarah Yang

Protein Interactions between WASH Complex and Retromer Complex

University of Maryland, College Park (Maryland)

Preceptors: Dr. Seongju Lee, Dr. Craig Blackstone

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745. Marie Fontelo

Mental and physical fatigue in Fibromyalgia patients with history of various types of abuse

Marquette University (Wisconsin)

Preceptor: Dr. Leorey Saligan

746. Sarah Harari

The Relationship between Fatigue, Physical Activity, and Cognitive Impairment in Healthy Individuals

Thomas S. Wootton High School (Maryland)

Preceptor: Dr. Leorey Saligan

747. Theresa Hardy

An exploratory pilot study: The influence of chronic pain, stress, and body fat on antimullerian hormone levels in females.

Marymount University (Virginia)

Preceptor: Dr. Wendy Henderson

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748. Jude Ibe

A survey of circular permutations in conserved domain families.

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Interaction between the Prostate tumor suppressor protein, NKX3.1, and the Prostate DHT-metabolizing UGT Isozymes

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Pelvic Floor Disorders: The Progress We Have Made

Wellesley College (Massachusetts)

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Frequency of Local Recurrences vs. Distant Metastases in Lung Squamous Cell Carcinoma and Adenocarcinoma Patients

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752. Courtney Pickworth, Rebecca Wong

Binge Eating in Adolescents At-Risk for Type 2 Diabetes

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753. Ricardo Tablada

Identification of Novel Anti-Malarial Action in Biguanides

Montgomery College (Maryland)

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754. Madeleine Whitaker

Oxytocin May Increase Affiliative Behaviors in Autistic Children

Wellesley College (Massachusetts)

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NIH SUMMER RESEARCH PROGRAM POSTER DAY 2012

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