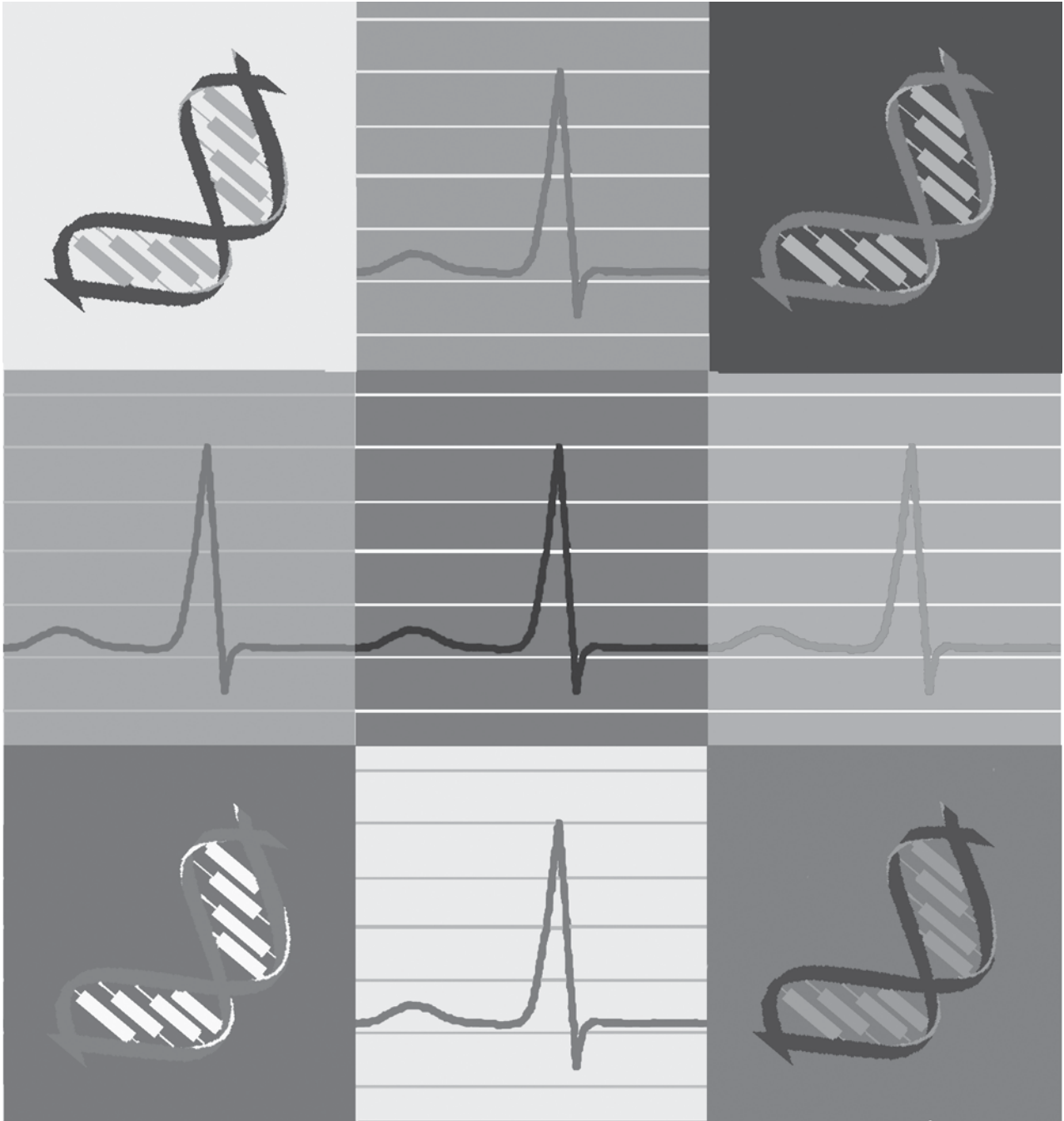


Modern Approaches To Science

NIA Spring Research Festival 2012



National Institutes of Health

Postbaccalaureate Poster Day Presentations

April 25, 2012

11:00 am to 2:00 pm

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and the even-numbered posters from 12:00 to 2:00 pm

NIH Clinical Center

1. Chihsiang Feng

Automatic Detection and Segmentation of Abdominopelvic Lymph Nodes on Computed Tomography Scans

University of Maryland, College Park
Mrs. Jiamin Liu
Dr. Ronald Summers, Preceptors

2. Jiixin Huang

A Cumulative Reporting System for Tumor Measurements and Integration with PACS and RIS

City University of New York (CUNY) Brooklyn
Dr. Jianhua Yao, Preceptor

3. Matthew McKenna

Computer Vision Approach to Detect Colonic Polyps in Computed Tomographic Colonography

Duke University
Dr. Shijun Wang
Dr. Ronald Summers, Preceptors

4. Hector Munoz

Detection of Vertebral Body Fractures Based on Cortical Shell Unwrapping

Rice University
Dr. Jack Yao
Dr. Ronald M Summers, Preceptors

5. Miki Nishitani

Complement Component 4 Copy Number Variation and Phenotype Associations in Patients with Congenital Adrenal Hyperplasia due to 21-Hydroxylase Deficiency

Duke University
Dr. Deborah P Merke, Preceptor

6. Tayyaba Toseef

Correlating Muscle Strength and Function in Children with Congenital Muscular Dystrophy

Delaware State University
Dr. Minal S Jain, Preceptor

7. Priyanka Venkatesh

The Impact of Chromatin Structure on the Formation of Radiation Induced Foci in Human Embryonic Stem Cells

Carnegie Mellon University
Dr. Ron Neumann, Preceptor

Center for Information Technology

8. Ashley Jaeger

Chandan Das

Microfabricated Polymeric Vessel Mimetics for Cancer Cell Culture

Arizona State University
University of Arkansas Medical School
Mr. Tom Pohida
Dr. Michael Gottesman, Preceptors

9. Beth Tyrie

A Streamlined Pipeline Utility for Analyzing Universal DTI Data in MIPAV

Wofford College
Dr. Matthew J McAuliffe
Mr. Nish Bharat Pandya, Preceptors

Federal Drug Administration

10. Zachary Hing

Characterization of a Coding Synonymous Polymorphism in the Metalloprotease Domain of ADAMTS13

Duke University
Dr. Chava Kimchi-Sarfaty, Preceptors

National Cancer Institute

11. Andrew Anderson

Xenobank of Pancreatic Adenocarcinoma as a Platform for Preclinical Drug Development

Jamestown College
Dr. Udo Rudloff, Preceptor

12. Megan Ansbro

Identification of Protein Kinase C Activating Phorbol Ester and Ingenol Derivatives as Candidates for Cutaneous P-glycoprotein Absorptive Transport across the Epidermis

Denison University
Dr. Luowei Li
Dr. Stuart H Yuspa, Preceptors

13. Julian Bahr

Short-term Romidepsin Treatment Combined with Mitogen-activated Protein Kinase and Phosphatidylinositol 3-kinase Inhibition Causes Increased Bim expression and cell death in KRAS mutant cell lines

University of Maryland, College Park
Mr. Rob Robey, Preceptor

2012 NIH Spring Research Festival Poster Presentations

14. Ben Barrett

Molecular Classification of a Gene Signature Profile for the TWEAK-Fn14-NF- κ B Pathway and its Role in Prostate Cancer Progression and Metastases

George Mason University
Dr. Ivy Yin, Preceptor

15. Kara Calhoun

Germline Variation in microRNA Networks: A Genotype-Phenotype Study of Lung Cancer in African Americans

Rice University
Dr. Brid M Ryan, Preceptor

16. Mario Cedillo

Sequence Specific Effects on DNA and Cell Damage with the PARP Inhibitor Olaparib (AZD2281) and Carboplatin

University of California, Los Angeles
Dr. Elise Kohn, Preceptor

17. Sudipa Chowdhury

Serum Anti-Glycan Antibodies as Biomarkers for Ovarian Cancer

University of Kentucky
Dr. Jeffrey C Gildersleeve, Preceptor

18. Suanur Cureoglu

Role of sRNAs in Biofilm Formation

University of Minnesota, Twin Cities
Dr. Susan Gottesman, Preceptor

19. Anthony Dawson

Molecular Mechanisms Regulating Localization of Centromeric Histone H3 Variant Cse4p and Kinetochores Function

University of California, Irvine
Dr. Munira Basrai, Preceptor

20. Ashley Denney

*RNA Polymerase II Mutants of RPB1 Isolated Using a Novel Assay for Transcription Fidelity in *Saccharomyces cerevisiae**

Colorado State University
Dr. Jeffrey N Strathern, Preceptor

21. Darshan Desai

The Emergence of HIV-1 Variants Resistance to 4'-ethynyl-2-fluoro-2'-deoxyadenosine (EFdA) Is Significantly Delayed Compared to That of Tenofovir (TDF), emtricitabine (FTC), and foscarnet (Ed4T)

George Mason University
Dr. Kenji Maeda, Preceptor

22. Jaime Eberle

Mapping and Removal of T Cell Epitopes in Recombinant Immunotoxins

State University of New York (SUNY) Binghamton
Dr. Ira Pastan, Preceptor

23. Katelyn Enzer

Helen Fassil

Inflammatory Factors in Blood and Saliva from Patients with Chronic Graft-versus-Host Disease

Boston University/Tufts University
Dr. Fran T Hakim, Preceptor

24. Andrea Fischione

Cell Cycle-dependent Phosphorylation Regulates BAG3 Binding to Hsp70

Case Western Reserve University
Dr. Elise Kohn
Dr. Andrea K McCollum, Preceptors

25. Caroline Garber

Nuclear Co-translocation of Tumor Suppressor Candidate 1, TUSC1, and Beclin 1: Elucidating the Role of TUSC1 in Autophagy

Johns Hopkins University
Dr. Jonathan Wiest
Dr. Zhihong Shan, Preceptors

26. Meti Gebregiorgis

Pharmacological Characterization of Mithramycin Analogs with Enhanced Potency and Selective Inhibition of EWS-FLI1 for the Treatment of Ewing Sarcoma

University of Maryland, College Park
Dr. Patrick J Grohar
Dr. Lee J Helman, Preceptors

27. Radhika Gharpure

Low Dose Rapamycin: Implications for Canine and Human Pulmonary Metastasis

University of Pennsylvania
Dr. Chand Khanna, Preceptor

28. Stanley He

Elevated Myc levels in CASZ1 Haploinsufficient Murine Embryonic Stem Cells Prevents Neurogenesis

Emory University

Dr. Zhihui Liu

Dr. Carol Thiele, Preceptors

29. Lisbeth Iglesias Rios

Association of Cigarette Smoking and the Health-related Quality of Life of Women With or At Risk of HIV Infection: Data from the Women's Interagency HIV Study

University of New Mexico

Dr. Erik Augustson, Preceptor

30. Marcella Kaddoura

Breast Cancer Cells Expressing Nanog Have Characteristics of Cancer Stem Cells

University of Michigan

Dr. Thomas J Sayers

Mr. Alan Brooks, Preceptors

31. Christopher Keith

Genetic Blockade of Epidermal EGFR Impairs Skin Immuno-homeostasis and Causes Systemic Disease: Implication in the Pathogenesis of the Rash in Patients treated with anti-EGFR drugs

Duke University

Dr. Stuart Yuspa

Dr. Francesca Mascia, Preceptors

32. Hilary Keller

An in vivo IL-7 Requirement for Peripheral FoxP3+ Regulatory T Cell Homeostasis

Johns Hopkins University

Dr. Hyun Park, Preceptor

33. Anthony Leonardi

Fas Receptor Stimulation Causes CD8 T Cell Differentiation

Johns Hopkins University

Mr. Anthony J Leonardi, Preceptor

34. Marc Leshner

Towards Prostate Cancer Diagnostics Based on Interphase Spatial Genome Positioning

Pennsylvania State University

Dr. Tom Misteli

Dr. Karen Meaburn, Preceptors

35. Brett Linowes

Pim1 Permits Generation and Homeostasis of CD4+ T Cells in the Absence of Common Gamma Chain Cytokine Signaling

Boston University School of Medicine

Dr. Hyun Park, Preceptor

36. Claire Lyons

Beliefs about the Malleability of the Body in College Women: Implications for Physical Activity

Cornell University

Dr. Annette Kaufman

Dr. William Klein, Preceptors

37. Katelyn Masiuk

Characterization of CLIC4 Knockout Mice.

Pennsylvania State University

Dr. Stuart H Yuspa, Preceptor

38. Saawan Mehta

Phenotypic Outputs of Ovarian Cancer Cell Lines and Their Relationship to a Selection of the Signaling Kinome

Virginia Polytechnic Institute and State University

Dr. John Lawrence Hays, Preceptor

39. Rob Merrill

Sos1 acts both as a Ras Gef and as a Scaffold for Lat Oligomerization in Murine Thymocytes

Georgetown University

Mrs. Connie Sommers, Preceptor

40. David Moorshead

The Effects of Carboplatin and Olaparib (AZD2281) Sequential Treatment on DNA Damage

Johns Hopkins University

Dr. Elise Kohn, Preceptor

41. Nicole Naiman

Oxidative Stress Upregulates the Latency-associated Nuclear Antigen Protein of Kaposi Sarcoma-Associated Herpesvirus in Chronically Infected Cells

Ohio State University

Dr. David A Davis

Dr. Robert Yarchoan, Preceptors

42. Germaine Noukelak

Identification of the Essential Features in the Activator Binding Site of ClpP.”

Smith College

Ms. Germaine Y Noukelak, Preceptor

43. James Pan

A BLOC-1 Mutation Screen in Hermansky-Pudlak Syndrome Reveals a New HPS Subtype, HPS-9, Associated with Mutations in PLDN (pallidin) and a Novel BLOC1S3 (HPS-8) Mutation

Carnegie Mellon University

Dr. William Gahl

Dr. Andrew Cullinane, Preceptors

44. Daniel Peaceman

Investigating Immune Reconstitution Among Patients Receiving Reduced Intensity Allogeneic Hematopoietic Stem Cell Transplantation using HLA-matched Unrelated Donor Stem Cells

George Washington University

Dr. Ronald E Gress, Preceptor

45. Vinita Puri

An Efficient Approach for Developing Antibody-Expressing Stable Cell Lines: Linkage of Intracellular Antibody Expression to Cell Fluorescence Followed by Fluorescent Cell Sorting

University of Maryland, College Park

Dr. Dimiter S Dimitrov

Dr. Zhongyu Zhu, Preceptors

46. Lorangelly Rivera-Torres

Transplacental Exposure to Nucleoside Reverse Transcriptase Inhibitors (NRTIs) Induces Genotoxicity Persistent for Up to 3 years in Patas Monkeys

Universidad Metropolitana

Dr. Ofelia A Olivero, Preceptor

47. Carlos Salgado

Continuous Daily Sunitinib For Recurrent Glioblastoma

Michigan State University

Dr. Teri N Kreisl, Preceptor

48. Shakir Saud

The AOM/DSS Mouse Model for the Study of Colitis-induced Colon Cancer: Implications for Chemoprevention by Natural Dietary Compounds

City College of New York (CUNY)

Dr. Matthew Young

Dr. Nancy Coulburn, Preceptors

49. David Schauder

Protein Structure Determination Using Automated Cryo-electron Microscopy

University of Michigan

Dr. Sriram Subramaniam, Preceptors

50. William Schreiner

Characterization of two Drosophila Telomere Binding Proteins, HipHop and HOAP.

University of Colorado

Dr. Yikang Rong, Preceptors

51. Laura Segars

ET-743 Suppresses WRN and Sensitizes Ewing Sarcoma Cells to Irinotecan

Elon University

Dr. Patrick J Grohar

Dr. Lee J Helman, Preceptors

52. Yilan Shi

The Importance of Importin Alphas in Mitotic Spindle Assembly

University of California, Los Angeles

Dr. Petr Kalab, Preceptor

53. Deborah Silverman

Enforced Expression of Lin28b Leads to Activation and Monoclonal Expansion of T-lymphocytes in Mice

Drexel University

Dr. Peter D Aplan, Preceptor

54. Jessica Sine

Studies with Light-triggerable Liposomes for the Delivery of Anti-cancer Agents

University of Mary Washington

Dr. Anu Puri, Preceptor

55. Emily Smith

High-Throughput Screening for Inhibitors of MALTI

Johns Hopkins University

Dr. Barry O'Keefe, Preceptor

56. Katherine Soe

Discovery and Characterization of Novel Kinase Activity in Coactivator of Transcription CIITA
Pomona College
Dr. Dinah S Singer, Preceptor

57. Bo Sun

Transcriptional Control of Receptor Accessory Protein 6 (Reep6) by Neural Retina Leucine Zipper (NRL) in Photoreceptors
Duke University
Dr. Anand Swaroop
Dr. Hong Hao, Preceptors

58. Tiffany Tanzosh

Identifying HIV Transmission Networks in the Washington DC Metropolitan Area Using Phylogenetic Techniques
Pennsylvania State University
Dr. Frank Maldarelli, Preceptor

59. Dena Tran

mTOR Deficiency Impairs Antibody Diversification Mechanisms and Response to Streptococcus pneumoniae
University of Maryland, College Park
Dr. Beverly A Mock
Dr. Shuling Zhang, Preceptors

60. Daniel Triner

ATM deficient B cell lymphomas depend upon NFkB for in vitro survival
Walsh University
Dr. Richard Hodes, Preceptors

61. Linus Williams

Transcription factors Gata3 and Tox during CD4 T-cell development in the Thymus: Friends or foes?"
Denison University
Dr. Remy Bosselut, Preceptors

National Cancer Institute – Division of Cancer Epidemiology and Genetics

62. Victoria Burton

The relation of PLCE1 protein expression to genotype and survival in esophageal squamous cell carcinoma
University of California, San Diego
Dr. Philip R Taylor
Dr. Stephen M Hewitt, Preceptors

63. Wendy Kim

Following up on GWAS peaks in chromosome 1 to identify novel mutations in SETDB1 and other candidate genes leading to increased melanoma susceptibility
Claremont McKenna College
Dr. Kevin Brown, Preceptor

64. Christine Kiruthu

Systemic inflammatory cytokine levels and relationship with human papillomavirus infection in rural Nigerian women
University of Maryland Eastern Shore
Dr. Sam Mbulaiteye, Preceptor

65. Joseph Kovacs

Variation in Zinc Finger Region of PRDM9 Changes the Landscape of Hotspot Recombination
Cornell University
Dr. Stephen Chanock, Preceptor

66. Laura Linville

Associations between Breast Cancer Risk Factors and Terminal Ductal Lobular Unit (TDLU) Involution in Normal Breast and Benign Breast Disease Tissues
Georgetown University
Dr. Gretchen Gierach
Dr. Jonine Figueroa, Preceptors

67. Abbey Thompson

Functional Characterization of Pancreatic Cancer Susceptibility Variants on Chr1q32
Northwestern University
Dr. Laufey Amundadottir, Preceptor

National Eye Institute

68. Daniel Ardeljan

Treatment with Recombinant Interleukin 17A Reduces ARPE-19 Cell Viability
Duke University
Dr. Chi-Chao Chan, Preceptor

69. Holly Babcock

Zebrafish modeling of a novel 5q deletion syndrome in a patient with coloboma
Colgate University
Dr. Brian P Brooks, Preceptor

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70. Joshua Chou

Sterculic Acid Antagonizes 7-ketocholesterol-mediated Angiogenesis
Wheaton College
Dr. Juan Amaral, Preceptor

71. Neel Gupta

Analysis of Alternative Splicing and Alternative Promoter Use in Global RNA Expression Profiles During Mouse Photoreceptor Aging
Duke University
Mr. Matthew Brooks
Dr. Anand Swaroop, Preceptors

72. Chris Lin

Evaluation of the Effect of Polymer Stiffness on Encapsulated Photoreceptor Cells
Rice University
Dr. Winnette McIntosh Ambrose, Preceptor

73. Shane Lince

Characterization of Podocalyxin Like Protein 2 (PODXL2) in the Mouse Retina and Brain
Florida Gulf Coast University
Dr. Tiansen Li, Preceptor

74. Lindsey Nugent

A Novel Nontoxic Aryl Hydrocarbon Receptor Ligand, ITE, Suppresses Immune-Mediated Ocular Inflammation.
American University
Dr. Igal Gery, Preceptor

75. Shahila Sriskanda

Pax2 regulates Nlz1 and drives optic fissure closure
College of Charleston
Dr. Brian Rooks, Preceptor

National Human Research Genome Institute

76. Damien Abreu

Endoplasmic reticulum stress induces changes in H3K27 acetylation and gene expression in a murine pancreatic beta cell culture model
Yale University
Dr. Michael L Stitzel, Preceptor

77. Katherine Berger

Usefulness of Induced Pluripotent Stem Cells in Understanding Rare and Undiagnosed Diseases
California Polytechnic State University
Dr. William A Gahl
Dr. May Christine Malicdan, Preceptor

78. Colleen Clark

Sickle Cell Trait and Clinical Complications: Assessment of the Scientific Literature
University of Virginia
Mr. Vence Bonham, Preceptor

79. Rachel Goldfeder

Exome Sequencing to Identify Variants Associated with Moebius Syndrome
Washington University in St. Louis
Mr. Peter Chines
Dr. Lori Bonnycastle, Preceptors

80. Sunny Huang

Using a large-scale genetic screen in zebrafish to combat hearing loss
University of Southern Indiana
Dr. Shawn M Burgess, Preceptor

81. Mary McKenna

Development of a model to test the in vivo consequences of hemoglobin binding to band 3.
Colby College
Dr. David Bodine, Preceptor

82. Terren Niethamer

Comparison of Oral and Liposome Delivery of ManNAc to Rescue Renal Hyposialylation
University of Pennsylvania
Dr. Marjan Huizing
Dr. William A Gahl

83. Benjamin Redan

RNAi screen reveals candidate miRNAs associated with the NF- κ B pathway
University of Scranton
Dr. Scott C Martin, Preceptor

84. Christopher Robles

Examining Inherited Variants in Jagged1 Gene for Risk of Congenital Heart Defects
University of California, Santa Cruz
Dr. Lawrence Brody, Preceptor

85. Mary Rood

Genetic Risk Factors for Congenital Heart Defects: Examining Single Nucleotide Polymorphisms in NOTCH2
University of Washington
Dr. Lawrence Brody, Preceptor

86. Cindy Wang

A Transgenic Murine Model of Hepatorenal Dysfunction in Methylmalonic Acidemia
Cornell University
Dr. Charles Venditti, Preceptor

87. Alison Witkowski

Mosaic Overgrowth and the AKT/PI3K/PTEN Pathway
University of North Carolina at Chapel Hill
Dr. Leslie G Biesecker
Dr. Marjorie J Lindhurst, Preceptors

88. Joy Yang

Pan-PCR, a computational method that designs PCR targets to distinguish bacterial strains based on whole genome sequence data
University of California, Berkeley
Dr. Evan Snitkin
Dr. Julia Segre, Preceptors

National Heart, Lung, and Blood Institute

89. Marci Barr

Understanding and Attitudes: Informed Consent of Sickle Cell Patients for Genetic Research
Franklin and Marshall College
Dr. James G Taylor VI, Preceptor

90. Amber Beg

Differential Expression and Regulation of Centrosomal Proteins in Drosophila melanogaster
University of North Carolina at Chapel Hill
Dr. Nasser M Rusan, Preceptor

91. Molly Bloom

A Systems Biology Approach to Drosophila Heart Development
University of Maryland, College Park
Dr. Alan Michelson, Preceptor

92. Steven Bolger

Quantitative Phosphoproteomics in Nuclei of Vasopressin-Sensitive Collecting Duct Cells
Duke University
Dr. Mark A Knepper, Preceptor

93. Davis Bradford

Profiling Potential Kinases Substrates in the Inner Medullary Collecting Duct of the Kidney
Auburn University
Dr. Mark A Knepper, Preceptor

94. Sandy Hernandez

Increasing Myosin-Va Processivity via Protein Engineering
Stony Brook University
Dr. James R Sellers
Dr. Yasuharu Takagi, Preceptors

95. Imoh Ikpot

Hydrocarbon stapling of amphipathic peptides increases cholesterol efflux by the ABCA1 transporter
University of Rochester
Dr. Alan Remaley, Preceptor

96. Jason Klima

Genetic Transformation of Mammalian Mitochondria
University of California, Santa Barbara
Dr. Hong Xu

97. Mary Morgan

Telomere Regulation in Human induced Pluripotent Stem Cells
University of California, San Diego
Dr. Neal S Young, Preceptor

98. Morgan Oliver-Allen

MRI Temperature Mapping and New Iterative Reconstruction Techniques for Computed Tomography
Loyola Marymount University
Dr. Michael Hansen
Dr. Robert S Balaban, Preceptors

99. Kevin Rogacki

Regulation of Fusion Competent Myoblast Development in Drosophila by the Zinc Finger Transcription Factor Lame Duck
Northwestern University
Dr. Alan M Michelson, Preceptor

National Institute on Aging

100. Galyah Boneh

Roles of XRN2 and RRM2 in Immunoglobulin AID-mediated Diversification
University of Colorado
Dr. Sebastian D Fugmann, Preceptor

101. Bethany Carboneau

Activation of SIRT1 by SRT2104 extends lifespan and healthspan of C57BL6/J mice fed a standard diet
Hanover College
Dr. Rafael de Cabo, Preceptor

102. Chelsea Curry

The Effect of Peripherally-Restricted CBI Receptor Inverse Agonist JD5037 on Insulin Responsiveness in Differentiated 3T3-L1 Mouse Adipocytes

Pomona College
Dr. Michel Bernier
Dr. Josephine Egan, Preceptors

103. Caitlin Daimon

The role of Brain-derived neurotrophic factor in metabolic control

Swarthmore College
Dr. Bronwen Martin, Preceptor

104. Megan Fitzpatrick

NEIL1 binding to PARP-1 plays a role in the repair of oxidative-induced DNA damage

Grinnell College
Ms. Megan J Fitzpatrick, Preceptor

105. Vasken Keleshian

Influence of promoter methylation on pre-frontal cortical gene expression in normal aged patients.

University of California, Santa Barbara
Dr. Jagadeesh S Rao, Preceptor

106. Amrita Krishnamurthy

Effects of Cannabinoid Receptor Modulation on Insulin Signaling in Beta Cells

University of California, Berkeley
Dr. Josephine M Egan
Dr. Michel Bernier, Preceptors

107. Vanessa Lukas

Quantitative Magnetic Resonance Analysis of Cartilage Degradation at Clinical Field Strength (3T) and Physiological Temperature (37°C)

Washington University in St. Louis
Dr. Richard G Spencer
Dr. Kenneth W Fishbein, Preceptors

108. Courtney Marshall

Monoclonal Anti-Marinobufagenin Antibody Reverses Cardiac Hypertrophy in Salt-Sensitive Hypertension

Davidson College
Dr. Olga Fedorova, Preceptor

109. Lindsey Montefiori

Delineating the 5' end of the IgH locus using 3D-FISH

North Carolina State University
Dr. Ranjan Sen, Preceptor

110. Kevin Najarro

Telomere Length and Adaptive Immune Response in the Elderly

University of California, Santa Cruz
Dr. Nan-ping Weng, Preceptor

111. Hector Palacios

Long-term Metformin Treatment Improves Health and Lifespan in Mice.

University of Texas at San Antonio
Dr. Rafael deCabo, Preceptor

112. Rebecca Riebe

Tag You're It! Engineering a "Tagless" sRAGE for a Broader Therapeutic Applications

Cornell University
Ms. Li Lin, Preceptor

113. Thomas Stringer

Behavioral effects of manipulating the inputs to newly born neurons of the dentate gyrus

Occidental College
Dr. Henriette van Praag, Preceptor

114. Theresa Ward

Behavioral phenotyping across lifespan in the aging interventions program

Towson University
Mr. Rafael deCabo, Preceptor

115. Jason Yolitz

SOD1 Interacts with Macronutrients to Modulate Lifespan in Drosophila melanogaster

Virginia Polytechnic Institute and State University
Dr. Sige Zou, Preceptor

National Institute on Alcohol Abuse and Alcoholism

116. Victoria Brown

Giving intravenous alcohol to alcoholics: Impact on short- and long-term craving measures in an inpatient study

Binghamton University
Mr. David T George, Preceptor

117. Patrick Cody

Chronic adolescent methylphenidate exposure alters adult striatal dopamine signaling and synaptic plasticity in adult C57BL/6J mice
St Mary's College of Maryland
Dr. Yolanda Mateo
Dr. David Lovinger

118. Marion Coe

Effect of Intravenous Ethanol on Hypothalamic-Pituitary-Adrenal (HPA) Axis Hormones in Healthy Males
University of Wisconsin, Madison
Dr. Vijay A Ramchandani

119. Rachel Daut

Effects of chronic intermittent ethanol exposure on discrimination and reversal learning in mice
Northern Arizona University
Ms. Rachel A Daut

120. Caitlin Durkee

The effect of alcohol dependence on white matter anisotropy in human brain
Georgetown University
Dr. Daniel Hommer

121. Jeffrey Dwulit-Smith

Towards the Site-Specific Labeling of a Recombinant Human Cannabinoid Receptor
Case Western Reserve University
Dr. Klaus Gawrisch
Dr. Alexei Yeliseev

122. Shaun Flynn

Impaired Fear Extinction in mice: are there candidate genes that make them vulnerable?
American University
Dr. Andrew Holmes
Dr. Ozge Gunduz Cinar

123. Keva Garg

Impact of Early Life Stress on Patients with Alcohol Dependence and PTSD in a Clinical Trial
Columbia University
Dr. David T George

124. Erica Grodin

Subcortical Atrophy in Alcohol Dependent Subjects
American University
Dr. Daniel W Hommer

125. Katie Holroyd

Cocaine Self-Administration in Mice Lacking the D2 Autoreceptor
Dartmouth College
Dr. Veronica Alvarez, Preceptor

126. Alanna Kaplan

Striatal Dopamine D2 Receptors Influence Motor and Drug-Related Behaviors.
Dartmouth College
Dr. Veronica A Alvarez

127. Faazal Rehman

An Investigation of the Effects of Alcoholism on the Expression of the MECP2 Gene
George Washington University
Dr. Annika Thorsell, Preceptor

128. Joanna Sells

Characteristics of Treatment-Seeking Alcoholics with Comorbid Post-Traumatic Stress Disorder
American University
Dr. David T George, Preceptor

129. Leah Steckler

Motivational Differences between Alcoholics and Controls in a Monetary Incentive Effort Task
University of Michigan
Dr. Daniel Hommer, Preceptor

National Institute of Allergy and Infectious Diseases

130. John Barber

A Novel Approach to Activating CD4+ T-Cells and Assessing the Diversity of T-Cell Receptors Using Randomized Peptide Pools
University of North Carolina at Chapel Hill
Dr. Joshua David Milner, Preceptor

131. Serena Chiang

Identifying Humoral Immune Responses that Enhance the Clearance of Plasmodium falciparum in Malian Children with Malaria
Cornell University
Dr. Rick Fairhurst, Preceptor

132. Melissa Chiasson

Validating a Metabolic Reconstruction and Flux Balance Analysis of Toxoplasma gondii
Yale University
Dr. Michael Grigg, Preceptor

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133. Justine Cummins-Oman

Isolation of P. falciparum Clones for a Genetic Cross to Investigate Differential Artemisinin Responses seen in Mali and Cambodia
Brandeis University
Dr. Thomas E Wellems, Preceptor

134. Estefania Fernandez

Role of autophagy in macrophage response to infection with fungal pathogen Cryptococcus neoformans
University of Texas at Austin
Dr. Peter R Williamson, Preceptor

135. Jessica Galant

The Mystery of Transcription Factor Helios: A New Marker of T Cell Activation
Stanford University
Dr. Ethan Shevach
Dr. Angela Thornton, Preceptors

136. Sarah Kaslow

A genetic cross to investigate the determinants of chloroquine resistance in Plasmodium vivax
Johns Hopkins University
Dr. Tom E Wellems, Preceptor

137. Lester Lambert

Phagocytosis: A Functional Assay for Antibodies to Plasmodium falciparum-infected Erythrocytes
Cornell University
Mr. Lester H Lambert, Preceptor

138. Phong Lee

Differential Antibody Interactions to the West Nile Virus Domain III Lateral Ridge
Yale University
Dr. Theodore Pierson, Preceptor

139. Christina Lin

Lupus and Placental Malaria: Are They Related?
Yale University
Dr. Michael Waisberg, Preceptor

140. Timothy Luongo

Structural Basis for Broad and Potent Neutralization by a Single-headed Immunoglobulin Targeting the Co-receptor Binding Site of HIV-1 Envelope
Eastern University
Dr. Peter Kwong
Dr. Priyamvada Acharya, Preceptors

141. James Muller

Ras signaling in activated T cells in response to altered peptide ligands.
Delaware State University
Dr. Rajat Varma
Dr. Travis Crites, Preceptors

142. Madeline Odigie

IL23 Promotes Interferon (IFN) Responsiveness In HIV/HCV Coinfected Patients Treated with Pegylated Interferon and Ribavirin
Wheaton College
Dr. Shyamasundaran Kottilil, Preceptor

143. Bhavik Patel

Redirecting T cells against HIV-infected cell reservoirs with chimeric antigen receptors
Loyola University Chicago
Dr. Edward A Berger, Preceptor

144. Joseph Pechacek

Dominant STAT1 Mutations Leading to Disseminated Fungal Infections
Georgetown University
Dr. Elizabeth Sampaio
Dr. Steven Holland, Preceptors

145. Lindsey Rosen

Anti-Interferon-gamma Autoantibody-Associated Immunodeficiency: Titer versus Avidity
Florida State University
Dr. Sarah K Browne
Dr. Steven M Holland, Preceptors

146. Daniel Salahuddin

Selection and Characterization of Natural Killer Cell Resistant 293T Clones
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NIH Clinical Center

1. George M. Cater

CRTP Fellow

*Associations between Risk Factors and Quantitative
Coronary Plaque Measurements Among High-risk
Diabetics Using Computed Tomography Angiography*

Cleveland Clinic Lerner College of Medicine of Case
Western Reserve University

Dr. David Bluemke, Preceptor
Radiology and Imaging Sciences Division

2. Kimberly L. Imbesi

CRTP Fellow

*A Comparison of Methods for Assisting Needle Angle
Selection During Image-guided Tissue Biopsy*

Duke University School of Medicine

Dr. Bradford Wood, Preceptor
Center for Interventional Oncology

3. Eunice Yang

CRTP Fellow

*Myocardial Tissue Composition in Relationship to
Cardiac Structure and Function in Hypertrophic
Cardiomyopathy: a Multicenter Analysis.*

Johns Hopkins University School of Medicine

Dr. David Bluemke, Preceptor
Radiology and Imaging Sciences

**National Cancer Institute-Center for Cancer
Research**

4. Vinita M. Alexander

HHMI-NIH Research Scholar

*A GSA-NMP1 Conjugate: An NIR-Activatable
Fluorescence Imaging Agent to Detect Peritoneal
Ovarian Cancer Metastases*

University of Wisconsin School of Medicine and Public
Health

Dr. Peter Choyke, Preceptor
Molecular Imaging Program

5. W. Tristram Arscott

HHMI-NIH Research Scholar

*Radiation-induced Alterations In Exosome Release And
Signaling*

University of Vermont College of Medicine

Dr. Kevin Camphausen, Preceptor
Radiation Oncology Branch

6. William B. Babbitt

CRTP Fellow

*Immunotherapy with Chimeric Antigen Receptors for
Pediatric Sarcomas*

University of California, San Francisco School of
Medicine

Dr. Crystal Mackall, Preceptor
Pediatric Oncology Branch

7. Brandon J. Baird

CRTP Fellow
Development of a Novel T-cell Receptor for the Treatment of Metastatic Follicular and Papillary Thyroid Cancer
Duke University School of Medicine
Dr. James Yang, Preceptor
Surgery Branch

8. Benjamin M. Cherry

CRTP Fellow
Immunologic Sequelae of Lenalidomide Maintenance Therapy for Multiple Myeloma
Case Western Reserve University School of Medicine
Dr. Ola Landgren, Preceptor
Multiple Myeloma Section, Metabolism Branch

9. David Clever

HHMI-NIH Research Scholar
Investigation Of CD14 As A Novel Therapeutic Target In Hodgkin's Lymphoma
Louis M. Staudt, M.D. , Ph.D. , Preceptor
Metabolism Branch

10. Helen Fassil

CRTP Fellow
A Comparison of Inflammatory Markers in the Saliva and Serum of Patients with Oral Chronic Graft versus Host Disease
Tufts University School of Dental Medicine
Dr. Steven Pavletic, Preceptor
Experimental Transplant and Immunology Branch

11. Elizabeth D. Hicks

CRTP Fellow
The Interaction Between the Normal B Cell Niche and Pre-B Cell Acute Lymphoblastic Leukemia
Duke University School of Medicine
Dr. Terry Fry, Preceptor
Pediatric Oncology Branch

12. Jennifer C. Ho

CRTP Fellow
Topography of Primary Glioblastoma Multiforme and Recurrence Patterns Following Radiotherapy
Duke University School of Medicine
Dr. Kevin Camphausen, Preceptor
Radiation Oncology Branch

13. Jenna M. Kahn

CRTP Fellow
Influence of mTORC1/mTORC2 Inhibition on Radiosensitivity in Glioblastoma
The Warren Alpert Medical School of Brown University
Dr. Kevin Camphausen, Preceptor
Radiation Oncology Branch

14. Tasha L. Lin

CRTP Fellow
Immune-based Therapy for B-cell Malignancies Using Chimeric Antigen Receptor-modified T-cells
University of Michigan Medical School
Dr. Crystal Mackall, Preceptor
Pediatric Oncology Branch

15. Nino Mihatov

HHMI-NIH-Research Scholar
Screening Of The Repurposed Drug Library To Identify Agents With Potential Efficacy In The Treatment Of Glioblastoma Tumors
Duke University School of Medicine
Dr. John Park, Preceptor
Surgical & Molecular Neuro-Oncology Unit

16. James Morrow

HHMI-NIH Research Scholar
Early Resistance to Apoptosis in the Lung Contributes to the Pulmonary Metastatic Phenotype
Case Western Reserve University School of Medicine
Dr. Chand Khanna, Preceptor
Pediatric Oncology Branch

17. Paul Su

HHMI-NIH Research Scholar
Acquisition of Antigen-Specific PD-1 Expression Defines T cell Dysfunction in Acute Lymphoblastic Leukemia
Columbia University College of Physicians and Surgeons
Dr. Terry Fry, Preceptor
Pediatric Oncology Branch

18. Mariam B. Totonchy

CRTP Fellow
A Longitudinal Auditory Analysis of Patients with Xeroderma Pigmentosum, 1971-2011: The Role of DNA Repair in Maintaining Neurological Integrity and Hearing Function
David Geffen School of Medicine at UCLA
Dr. Kenneth Kraemer, Preceptor
Dermatology Branch, DNA Repair Section

19. Jennifer H. Vogel

CRTP Fellow
Effects of the Microenvironment on Glioblastoma Stem Cell MicroRNA Profiles: Comparing in vivo and in vitro Models
Duke University School of Medicine
Dr. Kevin Camphausen, Preceptor
Radiation Oncology Branch

20. Dmitry Volkin

CRTP Fellow
Low Suspicion Lesions on Multiparametric Magnetic Resonance Imaging Do Not Correlate with High Risk Prostate Cancer
State University of New York Downstate Medical Center
College of Medicine at Brooklyn
Dr. Peter Pinto, Preceptor
Urologic Oncology Branch

21. Nitin K. Yerram

CRTP Fellow
Multiparametric Magnetic Resonance Imaging and Ultrasound Fusion Biopsy Detects Prostate Cancer in Patients with Prior Negative TRUS Biopsies
Northwestern University Feinberg School of Medicine
Dr. Peter Pinto, Preceptor
Urologic Oncology Branch

22. Kreshnik Zejnullahu

HHMI-NIH Research Scholar
Myc-independent Sensitivity to BET Bromodomain Inhibition in Lung Cancer
University of Massachusetts Medical School
Dr. Harold Varmus, Preceptor
Cancer Genetics Branch

**National Cancer Institute -Division of Cancer
Epidemiology and Genetics**

23. Lindsey Wu
HHMI-NIH Research Scholar
Patterns of Common Adult Bone Sarcomas as a Second
Malignancy in Relation to Radiotherapy
Duke University School of Medicine
Amy Berrington de Gonzalez, Ph.D., Preceptor
Radiation Epidemiology Branch

National Eye Institute

24. Talia Rosenberg
HHMI-NIH Research Scholar
Mitochondrial Dynamics in the Photoreceptors of
Hibernating Ground Squirrels
Yale University School of Medicine
Dr. Wei Li & Dr. Richard Youle, Preceptors
Division of Retinal Neurophysiology, National Eye
Institute & Surgical Neurology Branch, National Institute
of Neurological Diseases and Stroke

25. Grace Shih
HHMI-NIH Research Scholar
Nutritional Intake and Cataract Progression
Vanderbilt University School of Medicine
Dr. Emily Chew, Preceptor,
Division of Epidemiology and Clinical Applications

26. Ian A. Thompson
CRTP Fellow
*CFH and HTRA1 risk alleles in Caucasian and African
American Ocular Sarcoidosis patients*
Case Western Reserve University School of Medicine
Dr. Robert Nussenblatt, Preceptor
Clinical Immunology Section

27. Mei Zhou
CRTP Fellow
*Characterization of Reticular Drusen in Age-related Eye
Disease Study (AREDS) Patients*
University of Chicago Biological Sciences Division at
the Pritzker School of Medicine
Dr. Emily Chew, Preceptor
Division of Epidemiology and Clinical Applications

National Human Genome Research Institute

28. Brennan Decker
HHMI-NIH Research Scholar
*Genetics of Canine Squamous Cell Carcinoma of the
Digit*
Medical College of Wisconsin
Dr. Elaine A. Ostrander, Ph.D., Preceptor Cancer
Genetics Branch

National Heart Lung and Blood Institute

29. Swathi Appachi
HHMI-NIH Research Scholar
Plasma Membrane Estrogen Receptor Activation is
Protective in Ischemia-Reperfusion Injury in Mice
Cleveland Clinic Lerner College of Medicine of Case
Western Reserve University
Dr. Elizabeth Murphy, Preceptor
Systems Biology Center

30. John H. Baird
CRTP Fellow
*End-alveolar Carbon Monoxide as a Measure of
Erythrocyte Survival and Hemolytic Severity in Sickle
Cell Disease*
University of Arkansas for Medical Sciences College of
Medicine
Dr. Gregory Kato, Preceptor
Hematology Branch

National Institute on Aging

31. Matthew S. Pantell
CRTP Fellow
Social Determinants of Premature Aging
University of California, San Francisco School of
Medicine
Dr. Tamara Harris, Preceptor
Laboratory of Epidemiology, Biometry, and
Demography

National Institute of Allergy and Infectious Diseases

32. Tiffany C. Anaebere
CRTP Fellow
*Measurement of Endothelial Cell Function in Sickle Cell
Patients during Pain Crisis and After Recovery*
Duke University School of Medicine
Dr. Hans Ackerman, Preceptor
Laboratory of Malaria and Vector Research, Vascular
Biology Section

33. Lynn Frydrych
HHMI-NIH Research Scholar
Site Specific Drug Delivery Using Cellular Carriers
University of Wisconsin School of Medicine and Public
Health
Dr. Ronald Germain, Preceptor
Lymphocyte Biology Section

34. Lauren A. Sanchez
CRTP Fellow
*Extended Clinical Phenotype of GATA2 Deficiency
(MonoMAC Syndrome)*
David Geffen School of Medicine at UCLA
Dr. Steven Holland, Preceptor
Laboratory of Clinical Infectious Diseases

35. Amiko Uchida
HHMI-NIH Research Scholar
Neuro-immune crosstalk in the gastrointestinal tract: the
role of VIP and β_2 -Adrenergic receptors in CD4+ T cell
immune responses
Dr. Yasmine Belkaid, Preceptor
Laboratory of Parasitic Disease

**National Institute of Arthritis, Musculoskeletal, and
Skin Disease**

36. Alexander Kotlyar
HHMI-NIH Research Scholar
Differential Antigen Presenting Cell Responsiveness in
Hyper IgE Syndrome
Dartmouth Medical School
Dr. John O'Shea Preceptor
Laboratory of Lymphocyte Cell Biology

Eunice Kennedy Shriver National Institute of Child Health and Human Development

37. Sydney Chang

C RTP Fellow

Role of Antiprogesterins in Uterine Fibroids: Focus on Mechanical Signaling

Duke University School of Medicine

Dr. James Segars, Preceptor

Program of Reproductive and Adult Endocrinology

38. Soledad Jorge

C RTP Fellow

The Role of AKAP-13 in Progesterone Regulation of Fibroid Growth

Yale University School of Medicine

Dr. James Segars, Preceptor

Program of Reproductive and Adult Endocrinology

39. Ashley Lawler

HHMI-NIH Research Scholar

Characterization of AKAP13 and Chemotherapy Resistance in Ovarian Cancer Cells

University of Miami Miller School of Medicine

Dr. James Segars, Preceptor

Program in Reproductive and Adult Endocrinology

NIDCD

40. Stephanie L. Bissonnette

C RTP Fellow

Investigating Discourse Level Aphasia in Well Recovered Post-stroke Patients Using Functional Magnetic Resonance Imaging

University of New England College of Osteopathic Medicine

Dr. Allen Braun, Preceptor

Voice, Speech, and Language Branch

41. Alexander D. Claussen

C RTP Fellow

Pharmacologic and Endogenous Protection from Drug-induced Ototoxicity

Southern Illinois University School of Medicine

Dr. Carter VanWaes, Preceptor

Section on Sensory Cell Biology

National Institute of Dental and Craniofacial Research

42. Evan Lebovitz

HHMI-NIH Research Scholar

Treating Pain at the Source: Positive Allosteric Modulation of TRPV1 as a Novel Analgesic Mechanism

Dartmouth Medical School

Dr. Michael Iadarola, Preceptor

Neurobiology and Pain Therapeutics Section, Laboratory of Sensory Biology

43. Jeffrey Y. Tsai

C RTP Fellow

The Role of Receptor Activator of Nuclear Factor Kappa-B Ligand (RANKL) and RANKL Inhibition in Fibrous Dysplasia

Tufts University School of Dental Medicine

Dr. Michael Collins, Preceptor

Skeletal Clinical Studies Unit, Craniofacial and Skeletal Diseases Branch

National Institute of Diabetes and Digestive and Kidney Diseases

44. Sophia S.K. Yu

C RTP Fellow

Hypertriglyceridemic Waist Does Not Identify Metabolic Triad in Men of African Descent

David Geffen School of Medicine at UCLA

Dr. Anne E. Sumner, Preceptor

Diabetes, Endocrinology and Obesity Branch

National Institute of Mental Health

45. Lauren A. Anderson

C RTP Fellow

The Genetic Association Between Bipolar Disorder and Alcohol Dependence

Washington University in St. Louis School of Medicine

Dr. Francis McMahon, Preceptor

Genetics Unit, Mood and Anxiety Disorders Program

46. Sarah L. M. Johnson

C RTP Fellow

Shape Abnormalities of the Hippocampus During Development in Childhood-onset Schizophrenia Patients and Healthy Siblings

Yale University School of Medicine

Dr. Nitin Gogtay, Preceptor

Child Psychiatry Branch

National Institute for Neurological Disorders and Stroke

47. Monique Anderson

HHMI- NIH Research Scholar

Characterization and behavior of T regulatory cells in HTLV-1 Associated Myelopathy/ Tropical Spastic Paraparesis

University of Virginia School of Medicine

Dr. Steven Jacobson, Preceptor

Viral Immunology Section, Neuroimmunology Branch

48. Kristin M. Huntoon, Ph. D.

C RTP Fellow

Investigation into Nervous System Neoplasia Pathogenesis

New York College of Osteopathic Medicine of New York Institute of Technology

Dr. Russell Lonser, Preceptor

Surgical Neurology Branch

49. Blake C. Jones

HHMI-NIH Research Scholar

Robust Mixed-Effects Modeling of Brain Atrophy Over Time in Patients with Multiple Sclerosis

Case Western Reserve University School of Medicine

Dr. Daniel S. Reich, Preceptor

Translational Neuroradiology Unit

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