

NIH SUMMER INTERNSHIP PROGRAM PRESENTATION WEEK 2021 • AUGUST 3-5

AGENDA

AUGUST 3, 2021	POSTER AM	11:00 AM – 12:30 PM (ET)
	POSTER PM	1:00 PM – 2:30 PM (ET)
	LIGHTNING TALK	3:00 PM – 4:30 PM (ET)
AUGUST 4, 2021	POSTER AM	11:00 AM – 12:30 PM (ET)
	POSTER PM	1:00 PM – 2:30 PM (ET)
	LIGHTNING TALK	3:00 PM – 4:30 PM (ET)
AUGUST 5, 2021	POSTER AM	11:00 AM – 12:30 PM (ET)
	POSTER PM	1:00 PM – 2:30 PM (ET)
	LIGHTNING TALK	3:00 PM – 4:30 PM (ET)

DATE	INSTITUTE OR CENTER	PRESENTATION NUMBERS	
		POSTER	LIGHTNING TALK
8/3	National Cancer Institute (NCI)	1-91	144-184
8/3	National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG)	92-110	185-187
8/3	National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)	111-113	188
8/3	National Institute of Environmental Health Sciences (NIEHS)	114-141	189-192
8/3	Office of Director (OD)	142-143	193-216
8/4	Clinical Center (CC)	217-237	362-364
8/4	National Institute on Aging (NIA)	238-247	365-396
8/4	National Institute on Alcohol Abuse and Alcoholism (NIAAA)	248-256	
8/4	National Institute of Biomedical Imaging and Bioengineering (NIBIB)	257-261	397-399
8/4	National Institute on Drug Abuse (NIDA)	262-279	400-402
8/4	National Institute of Mental Health (NIMH)	280-315	403-411
8/4	National Institute of Neurological Disorders and Stroke (NINDS)	316-351	412-423
8/4	National Library of Medicine (NLM)	352-361	424-426
8/5	National Center for Advancing Translational Sciences (NCATS)	427-433	570
8/5	National Center for Complementary and Integrative Health (NCCIH)	434	
8/5	National Eye Institute (NEI)	435-454	571-576
8/5	National Human Genome Research Institute (NHGRI)	455-465	577-590
8/5	National Heart, Lung, and Blood Institute (NHLBI)	466-486	591-593
8/5	National Institute of Allergy and Infectious Diseases (NIAID)	487-507	594-609
8/5	<i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development (NICHD)	508-539	610-620
8/5	National Institute on Deafness and Other Communication Disorders (NIDCD)	540-543	621-622
8/5	National Institute of Dental and Craniofacial Research (NIDCR)	544-547	
8/5	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	548-563	623-635
8/5	National Institute on Minority Health and Health Disparities (NIMHD)	564-568	
8/5	National Institute of Nursing Research (NINR)	569	636

NOTE: the complete program for Summer Research Presentation Week 2021, including poster titles, can be found at https://www.training.nih.gov/assets/2021_Summer_Presentation_Week_Program.pdf.

PRESENTATION SESSION INFORMATION

Virtual Summer Research Presentation Week 2021 is organized into 79 sessions (60 poster sessions and 19 lightning talk sessions), each with 6 to 9 presenters for poster sessions and 10 to 12 presenters for lightning talk sessions. The sessions will be shared via Zoom. The table below will allow you to determine on what day and in which session the presentations that interest you are scheduled. The sessions will take place over 3 days (August 3rd through August 5th) and are organized into 3 timeslots: 11:00 am – 12:30 pm, 1:00 – 2:30 pm, and 3:00 – 4:30 pm. For security reasons, we will share online session links with presenters and preceptors via email. To attend a particular presentation or session, find the Zoom event name for the session, which will be in the form “Summer Research Presentation - Session #”. Then use the associated link to access the session of interest. All session times will be Eastern Time.

TUESDAY, AUGUST 3, 2021

IC	11:00 am - 12:30 pm (ET)		1:00 - 2:30 pm (ET)		3:00 - 4:30 pm (ET)	
	SESSION #	POSTER #	SESSION #	POSTER #	SESSION #	LIGHTNING TALK #
NCI	1	1 - 7	11	50 - 56	22	144 - 153
	2	8 - 14	12	57 - 63	23	154 - 163
	3	15 - 21	13	64 - 70	24	164 - 173
	4	22 - 28	14	71 - 77	25	174 - 184
	5	29 - 35	15	78 - 84		
	6	36 - 42	16	85 - 91		
	7	43 - 49				
NCI-DCEG	8	92 - 99	17	100 - 107	26 [†]	185 - 187
			18*	108 - 110		
NIAMS			18*	111 - 113	26 [†]	188
NIEHS	9	114 - 120	19	128 - 134	26 [†]	189 - 192
	10	121 - 127	20	135 - 141		
OD			18*	142 - 143	27	205 - 216
			21	193 - 204		

*NCI-DCEG, NIAMS, and OD share Session 18.

†NCI-DCEG, NIAMS, and NIEHS share Session 26.

OD-HiSTEP participants will present *lightning talks* in both Session 21 and Session 27.

WEDNESDAY, AUGUST 4, 2021

IC	11:00 am - 12:30 pm (ET)		1:00 - 2:30 pm (ET)		3:00 - 4:30 pm (ET)	
	SESSION #	POSTER #	SESSION #	POSTER #	SESSION #	LIGHTNING TALK #
CC	28	217 - 223	38	224 - 230	48†	362 - 364
			39	231 - 237		
NIA	29	238 - 242	40	243 - 247	49	365 - 375
					50	376 - 386
					51	387 - 396
NIAAA	30	248 - 256				
NIBIB			41*	257 - 261	48†	397 - 399
NIDA	31	262 - 270	42	271 - 279	52‡	400 - 402
NIMH	32	280 - 286	43	301 - 307	52‡	403 - 411
	33	287 - 293	44	308 - 315		
	34	294 - 300				
NINDS	35	316 - 322	45	330 - 336	53	412 - 423
	36	323 - 329	46	337 - 343		
			47	344 - 351		
NLM	37	352 - 359	41*	360 - 361	48†	424 - 426

*NIBIB and NLM share Session 41.

†CC, NIBIB, and NLM share Session 48.

‡NIDA and NIMH share Session 52.

THURSDAY, AUGUST 5, 2021

IC	11:00 am - 12:30 pm (ET)		1:00 - 2:30 pm (ET)		3:00 - 4:30 pm (ET)	
	SESSION #	POSTER #	SESSION #	POSTER #	SESSION #	LIGHTNING TALK #
NCATS			64	427 - 433	74‡	570
NCCIH			65*	434		
NEI	54	435 - 441	66	449 - 454	74‡	571 - 576
	55	442 - 448				
NHGRI	56	455 - 460	67	461 - 465	75	577 - 586
					76§	587 - 590
NHLBI	57	466 - 472	68	480 - 486	74‡	591 - 593
	58	473 - 479				
NIAID	59	487 - 493	69	501 - 507	76§	594 - 599
	60	494 - 500			77	600 - 609
NICHD	61	508 - 515	70	524 - 531	78¶	610 - 620
	62	516 - 523	71	532 - 539		
NIDCD			72†	540 - 543	74‡	621 - 622
NIDCR			72†	544 - 547		
NIDDK	63	548 - 555	73	556 - 563	79	623 - 635
NIMHD			65*	564 - 568		
NINR			65*	569	78¶	636

*NCCIH, NIMHD, and NINR share Session 65.

†NIDCD and NIDCR share Session 72.

‡NCATS, NEI, NHLBI, and NIDCD share Session 74.

§NHGRI and NIAID share Session 76.

¶NICHD and NINR share Session 78.

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Tuesday, August 3, 2021

National Cancer Institute (NCI) Posters

1 Colette Achee

Characterizing Murine mut-IL7R/TLX3 Leukemia

Emory University (Georgia)

Preceptors: Dr. Gisele Rodrigues, Dr. Scott Durum

2 Dariush Aligholizadeh

Salt-resistant Binding of Gag to HIV-1 RNA psi Packaging Signal

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Alan Rein

3 Simon Anderson

Incorporation of CD160 Intracellular Sequence into CAR Plasmid

James Madison University (Virginia)

Preceptors: Mr. Justin Mirazee, Ms. Kniya Dede, Dr. Naomi Taylor

4 Eshan Arora¹, Samisha Suresh², Yunice Pyo³

Role of Modular Domains in Chimeric Antigen Receptors in Cytotoxicity against CD19+ Leukemia

¹California Northstate University (California), ²Virginia Commonwealth University (Virginia),

³University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Naomi Taylor, Mr. Jusitn Mirazee

5 Kurt Auville (POSTER MOVED to the end of session 40)

Integration and Visualization of Mechanism Interrogation PlatE (MIPE) Data across Multiple Cell Lines Using the Oncogenomics Database Platform

University of Maryland School of Medicine (Maryland)

Preceptors: Dr. Javed Khan, Dr. Craig Thomas, Mr. Xinyu Wen

6 Hana Bagheri

Assessment of Co-housing Mediated Transfer in Wild Type and Natural Killer T-cell Deficient Mouse Strains

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jay Berzofsky, Dr. Purevdorj Olkhanud, Dr. Matthew Angel

7 Vikram Bala

Analysis of the Immune Response to Implanted ECM Biomaterials as a Cancer Immunotherapy through High Parameter Flow Cytometry Dimensionality Reduction Techniques

University of Michigan (Michigan)

Preceptors: Dr. Matthew Wolf, Dr. Elizabeth Brooks

8 Cailyn Barthlow

Identification of Mutations in Non-target Genes in Donors with HIV Failing Raltegravir
Hood College (Maryland)

Preceptors: Dr. Jennifer Groebner, Dr. Mary Kearney

9 Aidell Benyarku¹, Fadilah Farrin²

Descriptive Framework of the Barriers to Cancer Pain Management

¹Howard University (District of Columbia), ²Georgetown University (District of Columbia)

Preceptors: Dr. Amanda Acevedo, Dr. Rebecca Ferrar

10 Frimpong Boateng

Probing the Activation and Repression Mechanisms of Bacteriophage Lambda Promoter, PRM, by CI and RNA Polymerase Interactions Using DNA and Protein Mutations

Joliet Junior College (New Jersey)

Preceptors: Dr. Dale Lewis, Dr. Sankar Adyha

11 Brianna Boggan

Cancer Risk Perceptions, Health Behaviors, and BMI among the United States' Population
UNC Charlotte (North Carolina)

Preceptors: Dr. Tanya Agurs-Collins, Ms. Adaora Ezeani, Ms. Olga Herren

12 Paul Borgman III

Impact of Obesity, Ethnicity, and Race on Chimeric Antigen Receptor (CAR) T-cell Therapy Outcomes

Florida State University College of Medicine (Florida)

Preceptors: Dr. Nirali Shah, Ms. Bonnie Yates, Dr. Haneen Shalabi, Dr. John Ligon

13 Adam Bruzzese¹, Leah Liebman², Omar Roman³

Clinical Characteristics and Natural History of NF1-associated GIST

¹New York University (New York), ²Gratz College (Maryland), ³Case Western Reserve University (Ohio)

Preceptors: Dr. John Glod, Ms. Barbara Thomas, Ms. Shadin Ahmed, Ms. Hannah Smith

14 Nikki Cannon

A Software for Comparing Bacterial Strains Reconstructed from Metagenomes

West Virginia University (West Virginia)

Preceptors: Dr. John McCulloch, Dr. Giorgio Trinchieri

15 Jennie Cao

Stable Stochastic Switches in Bidirectional Promoters

Johns Hopkins University (Maryland)

Preceptors: Dr. Stephen Anderson, Dr. Hongchuan Li, Dr. Md Ahasanur Rahman, Mr. Paul Wright

16 Usamah Chaudhary

CT Based Detection and Segmentation of Small Cell Lung Cancer Liver Metastases

University of Texas Southwestern Medical School (Texas)

Preceptors: Dr. Stephanie Harmon, Dr. Ismail Turkbey

17 Bobby Chen

How COVID-19 Is Revamping How We Work from Home

University of Maryland, College Park (Maryland)

Preceptors: Mr. Dinesh Reddy, Mr. Rene Pineda

18 Ann Chen

PTEN Dual Lipid and Protein Phosphatase Function in Tumor Metastasis

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Yanlin Yu, Dr. Glenn Merlino

19 Varshita Chirumamilla¹, Anjali Mahajan²

Evaluation of PHENX Toolkit for Tobacco Use and Cessation Measures for Minority and Underserved Populations: A Targeted Literature Analysis

¹The Ohio State University (Ohio), ²University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Stephanie Land, Dr. Joe Ciccolo

20 Natalie Chung

Mapping Cancer Stem Cell Dynamics in a Breast Cancer Model

Ramapo College of New Jersey (New Jersey)

Preceptors: Dr. Lalage Wakefield, Dr. Daniel Grun, Dr. Binwu Tang, Ms. Zoya Khan

21 Sasha Coates-Park

The Effects of Smad4 Loss on TGF- β -Induced Alternative mRNA Splicing

University of Maryland, College Park (Maryland)

Preceptors: Dr. Christina Stuelten, Dr. Ying Zhang

22 Madeline Eisenfeld

Transcriptome Analysis of the PHF1 Gene

University of Maryland, College Park (Maryland)

Preceptors: Dr. Zheng-gang Liu, Dr. Swati Choksi, Mrs. Sahar Foroutannejad

23 Sophia Elliott

WITHDRAWN: *Assessing the Lifecycle and Usage of Data Stored in dbGAP*

Delaware State University (Delaware)

Preceptors: Dr. Joe Flores-Toro, Dr. Subhashini Jagu, Dr. Freddie Pruitt, Dr. Sylvia Gale

24 Rivka Farrell

In silico Analysis of Promoter Methylation of Somatostatin Receptor in Neuroendocrine Cancer

New Jersey Institute of Technology (New Jersey)

Preceptors: Dr. Samira Sadowski

25 Fadilah Farrin¹, Aidell Benyarku²

WITHDRAWN: *Barriers to Achieving Equity in Cancer Pain Management*

¹Georgetown University (District of Columbia), ²Howard University (District of Columbia)

Preceptors: Dr. Amanda Acevedo, Dr. Rebecca Ferrer

26 Colin Fischer

METTL7A Is a Primary Mechanism of Resistance to Thiol Containing Histone Deacetylase Inhibitors

University of Minnesota, Duluth (Minnesota)

Preceptors: Dr. Robert Robey, Dr. Christina Fitzsimmons, Dr. Michael Gottesman

27 Julia Francis

Investigating the Roles of Acetyltransferase Proteins in Bacteria

University of Maryland, College Park (Maryland)

Preceptors: Dr. Susan Gottesman, Ms. Emily Tai, Mr. Xing Luo

28 Arielle Fried

Evaluating Quality of Life in Patients with Biochemically Recurrent Prostate Cancer

Georgetown University School of Medicine (District of Columbia)

Preceptors: Dr. Ravi Madan, Dr. Fatima Karzai, Dr. William Dahut

29 Ryan Gensler

Localization and Characterization of the Zebrafish Homologs of the Human ABCG2 Transporter

University of Notre Dame (Indiana)

Preceptors: Dr. Michael Gottesman, Dr. Robert Robey, Dr. Jo Thomas

30 Laila Ghorab

Point of No Return: Determining the Commitment Point for Cellular Senescence

University of Maryland, College Park (Maryland)

Preceptors: Dr. Marwa Afifi, Dr. Steven Cappell

31 Thailynn Glover

Does Dietary Seaweed Consumption Modulate Prostate Cancer Risks in the Multiethnic Cohort Populations

University of Maryland Eastern Shore (Maryland)

Preceptors: Dr. Nancy Emenaker, Dr. Carol Boushey, Dr. Kevin Dodd

32 Gittel (Gitty) Goldstein

Correlation between Clinical Biomarkers and Response to Combination Immunotherapy in Patients with Advanced Cancer.

Stern College for Women (New York)

Preceptor: Dr. Julius Strauss

33 Isabel Gomez

Evaluating the Use of Race in Prediction Models to Reduce Racial Disparities in Lung Cancer Screening

Smith College (Massachusetts)

Preceptors: Dr. Rebecca Landy, Dr. Hormuzd Katki, Dr. Li Cheung

34 Rebecca Gordon

Cancer Beliefs and Physical Activity Levels among Individuals with Personal and Family Cancer History: Findings from the Health Information National Trends Survey (2020)

Cornell University (New York)

Preceptors: Dr. Kelly Blake, Dr. Yuki Lama

35 Enoc Granados Centeno

Does Microbiota Affect Tumor-induced Myelopoiesis?

University of Maryland, College Park (Maryland)

Preceptors: Mr. Khiem Lam, Dr. Romina Goldszmid

36 Rahul Gupta

Computational Analysis of Nanopore Sequencing Data to Distinguish Guanosine from Inosine

University of Chicago (Illinois)

Preceptors: Dr. Shalini Oberdoerffer, Dr. David Sturgill

37 Jeisac Guzman Rivera

Mesothelin: A Potential Target for Combined Immunotherapy for Ovarian Cancer

University of Puerto Rico, Rio Piedras (Puerto Rico)

Preceptors: Dr. Soumya Korrapati

38 Grace Ha

Flow Cytometry Analysis of Chimeric Antigen Receptor Efficacy against CD19+ Leukemia

University of Minnesota Twin Cities (Minnesota)

Preceptors: Dr. Naomi Taylor, Dr. Josquin Moraly, Dr. Chris Chien

39 Maria Hancu

Finding New RpoS Regulators in Fitness Data

Rice University (Texas)

Preceptors: Dr. Sophie Bouillet, Dr. Susan Gottesman

40 Tuesday Haynes

Investigating the Association between Immune-related Genetic Polymorphisms and Cancer Risk in Individuals of African and European Descent

University of Texas at Austin (Texas)

Preceptors: Dr. Mark Gilbert, Dr. Terri Armstrong, Ms. Diane Cooper

41 Madeline Hinkley¹, Kate Ryan²

Classification of Reported Protein-Metabolite Interactions

¹University of Michigan (Michigan), ²Syracuse University (New York)

Preceptor: Dr. Jordan Meier

42 Hannah Holmes

Seaweed Consumption and Colorectal Cancer Risk in a Multiethnic Cohort Population

University of Hawaii at Manoa (Hawaii)

Preceptor: Dr. Nancy Emenaker

43 Gabriela Holzer

Analysis of Multiomics Data for mTOR Signaling in Human Cancer

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Joe Nguyen, Dr. Beverly Mock, Ms. Mikaela Matera-Vatnick

44 Navami Jain

Identifying Differentially Active Gene Networks in Breast Cancer

Stanford University (California)

Preceptors: Dr. Sridhar Hannenhalli, Dr. Piyush Agrawal

45 Paige Jones

Investigation of the Interactome with FOXC1 in NF1-deficient MPNST

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Xiyuan Zhang, Dr. Jack Shern

46 Sabrina Kaplan

Smoking Cessation & Lung Cancer Screening: The Psychology of Context Effects and Consumer Choice

Vanderbilt University (Tennessee)

Preceptor: Dr. Stephanie Land

47 Nelli Karapetyan

Filling the BAP1 Tumor Predisposition Syndrome Resource Gap: Assessing Readability and Accuracy

Montgomery College (Maryland)

Preceptors: Mrs. Alexandra Lebensohn, Dr. Kathleen Calzone

48 Priya Katyal

Spatial Genomic and Proteomic Study of FFPE Metastatic Tumor Samples from Patients with Solid Tumors

University of Virginia (Virginia)

Preceptors: Dr. Todd Prickett

49 McKenzie Kauss

Exploring Survivorship in Breast and Genitourinary Cancers: Report from a Scoping Review of Health Care Utilization and Patient Outcomes

University of Michigan (Michigan)

Preceptors: Dr. Heather Leeper, Dr. Terri Armstrong, Ms. Diane Cooper

50 Adam Kenet

Modeling the Variability of Therapeutic Outcomes for CAR-T Treatment of Pediatric Leukemia

Johns Hopkins University (Maryland)

Preceptors: Dr. Grégoire Altan-Bonnet, Dr. Dongya Jia, Dr. Naomi Taylor, Ms. Angela Su

51 Sarah Kimmel¹, Tsion Mekonnen², Lynn Fu³

Phase 2 MEK 1/2 inhibitors Selumetinib in Adult NF1 patients

¹Middlebury College (Vermont), ²Towson University (Maryland), ³Amherst College, (Massachusetts)

Preceptors: Dr. Brigitte Widemann, Dr. Andrea Gross, Dr. Cecilia Tibery, Dr. Eva Dombi, Dr. Brigitte Widemann

52 Emma Kosmeder

Investigating the Tumor Suppressor Mechanism of the Novel Protein FORCP in Colorectal Cancer

Colgate University (New York)

Preceptors: Dr. Yannis Grammatikakis, Dr. Ashish Lal

53 Haoran Li

Exploring Co-occurring Mutations in KRAS-Driven Cancers

University of Maryland, College Park (Maryland)

Preceptors: Dr. Chih-Shia Lee, Dr. Ji Luo

54 Allie Yuxin Lin

Exploring Survivorship in Lung and Gastrointestinal Cancers: Report from a Scoping Review of Health Care Utilization and Patient Outcomes

Columbia University in the City of New York (New York)

Preceptors: Dr. Heather Leeper, Dr. Terri Armstrong, Ms. Diane Cooper

55 Lauren Loebach

Predictors of Pathological Grade in von Hippel-Lindau (VHL)-associated Renal Cell Carcinoma

Cornell University (New York)

Preceptor: Dr. Mark Ball

56 Abbie Macher

Flow Cytometry Analysis of Chimeric Antigen Receptor T Cells against the CD19 Leukemia Antigen: Differences between Mature T Cells and Recent Thymic Emigrants

Brown University (Rhode Island)

Preceptors: Dr. Josquin Moraly, Dr. Naomi Taylor

57 Anjali Mahajan¹, Varshita Chirumamilla²

Development of CEAL CS2 for Measurement of Vaccine Hesitancy and Promotion of Inclusive Clinical Trials

¹University of Pennsylvania (Pennsylvania), ²The Ohio State University (Ohio),

Preceptor: Dr. Stephanie Land

58 Riya Mahesh

Somatic Mutations in Cancer Adjacent Normal Tissue in Breast Cancer Patients

University of Texas at Austin (Texas)

Preceptors: Dr. Rose Yang, Dr. Bin Zhu

59 Alexander Majkic

Antibody Responses to Childhood Vaccines in Patients with Inherited Bone Marrow Failure Syndromes

Oberlin College (Ohio)

Preceptors: Dr. Burak Altintas, Dr. Neelam Giri

60 Sarah Martin

Modeling the Presomitic Mesoderm Fgf8 Gradient in Mouse Embryos via HCR and Imaris Analysis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mark Lewandoski, Dr. Matthew Anderson

61 Abby Molnar

Effects of the Loss of Respiration in Petite Yeast Strains on Mitochondrial Protease Degradation

Juniata College (Pennsylvania)

Preceptors: Dr. Meredith Metzger, Dr. Allan Weissman

62 Gabe Needle

Association between Immunological Subtypes and Response to Immune Checkpoint Blockades in Human and Mouse Melanomas

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Chi-Ping Day

63 Anna Newen

Mechanism of EZH2 Protein Transportation between Nucleus and Cytoplasm and the Role of Cytoplasmic EZH2 in Cancer

Rutgers University (New Jersey)

Preceptors: Dr. Brajendra Tripathi, Dr. Douglas Lowy

64 Tyler Perlstein

Developing Novel Algorithms for Analyzing Survival Data of Small Cell Lung Cancer Patients

University of Maryland, College Park (Maryland)

Preceptors: Dr. Nitin Roper, Dr. Lorinc Pongor

65 Rivka Bella Rabaev

Bone Morphogenetic Protein (BMP) Directly Regulates Cancer Stem Cell Dynamics in Metastatic Breast Cancer

Lander College for Women (New York)

Preceptors: Dr. Lalage Wakefield, Dr. Binwu Tang, Ms. Zoya Kahn

66 Rashika Rahman

Needle in a Haystack: Applying Machine Learning Methods to Identify and Improve Patient Health Outcomes in Healthcare Delivery Research

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Roxanne Jensen

67 Sandy Reynolds

Survey of TGF- β secretion in Cancer Cells

Prairie View A & M University (Texas)

Preceptor: Dr. James Hodge

68 Lydia Ruan

Development of a NIDAP Workflow for GeoMx Digital Spatial Profiler Data

University of Maryland, College Park (Maryland)

Preceptor: Dr. Maggie Cam

69 Cole Ruoff

Delineating Cellular Composition in Spatial Transcriptomic Data

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sridhar Hannenhalli, Dr. Vishaka Gopalan

70 Sahil Sahni

Detection of Synthetic Lethality in Gene-fusion Mediated Prostate Cancers

McGill University (Canada)

Preceptors: Dr. Kun Wang, Dr. Eytan Ruppin

71 Remi Savard

Transcriptional Markers of Mouse Lung NKT Cell Subsets

University of Vermont (Vermont)

Preceptors: Dr. Jay Berzofsky, Dr. Purevdorj Olkhanud, Dr. Matthew Angel

72 Dana Schaar

Cardiovascular Risk Factors and Clinical Outcomes after Hematopoietic Stem Cell Transplantation

Georgetown University (District of Columbia)

Preceptors: Dr. Steven Pavletic, Dr. Noa Holtzman, Mr. Filip Pirsil

73 Rahi Shah

Tobacco, Alcohol and Their Effect on Sleep Rhythm

University of Maryland, College Park (Maryland)

Preceptors: Dr. Carolyn Reyes- Guzman

74 Kaitlynn Slattery

Distinctive Transcriptomic Signatures Derived from Cancer-associated Mutation in Isocitrate Dehydrogenase 1

George Washington University (District of Columbia)

Preceptors: Dr. Chunzhang Yang, Dr. Yang Liu

75 Krishay Sridalla

Understanding the Role of TCEA1 (TFIIS) in Breast Cancer Using RNA-Seq Analysis

Cornell University (New York)

Preceptors: Dr. Smriti Singh, Dr. Mikhail Kashlev

76 Hannah Stack

Identification of N-myc Interactors as Druggable Targets in Neuroblastoma

Colgate University (New York)

Preceptors: Dr. Carol Thiele, Dr. Zhihui Liu, Mr. Samuel Chen

77 Ian Stukes

Targeted Drug Delivery in Aggressive Thyroid Cancer Microenvironment

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Dipranjan Laha, Dr. Naris Nilubol

78 Amanda Taylor

The Effects of Overexpression of EPAS1, A Repressed Target of EWS-FLI1, on the Ewing Sarcoma Transcriptome

Washington University in St. Louis (Missouri)

Preceptors: Dr. Natasha Caplen, Dr. Katelyn Ludwig

79 Hao Dong Tian

Development and Evaluation of Chimeric Antigen Receptor (CAR) T Cells Targeting CD276 in Solid Tumors

Vassar College (New York)

Preceptor: Dr. Pradip Bajgain

80 Sanidhya Tripathi

Validation of Deep Learning Model for Prostate Cancer Detection on Digital Pathology

University of Arkansas (Arkansas)

Preceptors: Dr. Stephanie Harmon, Dr. Freddy Escorcia, Dr. Baris Turkbey

81 Brianna Wachter

Characterizing Murine mut-IL7R/TLX3 Leukemia
University of Maryland, College Park (Maryland)
Preceptors: Dr. Scott Durum, Dr. Gisele Rodrigues

82 Trent Walker

CAR T-Cell Efficacy with CD28 Costimulatory Domain Downstream of TCR zeta: An Experimental Design
The Ohio State University College of Medicine (Ohio)
Preceptors: Mr. Justin Mirazee, Dr. Naomi Taylor

83 Danyi Wang

Identification and Verification of microRNA Gene Targets in Mesothelioma
Northwestern University (Illinois)
Preceptor: Dr. Chuong Hoang

84 Rohan Wedam

Genomic Alterations in the Mitochondrial Genes of Breast Cancer
Winston Churchill High School (Maryland)
Preceptors: Dr. Stanley Lipkowitz, Dr. Yoshimi Greer, Ms. Samantha Sevilla

85 Lauren Witmer

Defining Genetic Adaptations in Clinical Bacterial Isolates from Cystic Fibrosis
Bridgewater College (Virginia)
Preceptors: Dr. Tiffany Zarrella, Dr. Anupama Khare

86 Melinda Yan

Assessing GWAS Fine Mapping Tools for Dimensional Reduction of Credible Sets
University of Maryland, College Park (Maryland)
Preceptors: Dr. Ludmila Prokunina-Olsson, Dr. Oscar Florez-Vargas

87 William Yang

Analysis of Factors Influencing LTR and gag Levels in HIV Infected Patients
Rice University (Texas)
Preceptors: Dr. Chuen-Yen Lau, Dr. Brian Luke, Dr. Frank Maldarelli

88 LaYow Yu

Targeting Glioblastoma with Anti-carbonic Anhydrase IX/CD3 Bispecific Antibody
Washington University in St. Louis (Missouri)
Preceptors: Dr. Zhengping Zhuang, Dr. Herui Wang, Mr. Pashayar Lookian

89 Danny Zelmanovich

Understanding the Transcriptional Landscape of GLI2 Overexpression in TC32 Cell Lines
Colgate University (New York)

Preceptors: Dr. Katelyn Ludwig, Dr. Natasha Caplen, Dr. Vernon Ebegboni

90 Flora Zhang

Genome Wide Association Study Identifies SNPs influencing Omega-3 Fatty Acid Composition in the NCI-UMD Prostate Cancer Cohort

Colgate University (New York)

Preceptors: Dr. Stefan Ambs, Dr. Wei Tang

91 Sophie Zhuang

Chromosome-specific DNA Replication Patterns in Cancer Cells

Kalamazoo College (Michigan)

Preceptors: Dr. Bhushan Thakur, Dr. Haiqing Fu, Dr. Mirit Aladjem

National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG) Posters

92 Carolyn Brandt

Racial and Ethnic Differences in Risk of Second Primary Cancers among Breast Cancer Survivors

The George Washington University (District of Columbia)

Preceptors: Dr. Cody Ramin, Dr. Amy Berrington

93 Gargi Damle

Characterizing of Somatic Hotspot Mutations Using Cervical Exfoliated Cells among Different HPV Types

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Maisa Pinheiro

94 Lee Ding

Estimating Changes in Average Annual Percentage Change of Disease Rates: Alternatives to Join-Point Regression

Brown University (Rhode Island)

Preceptors: Ms. Julia Elrod, Dr. Philip Rosenberg

95 Sarah Dixon

Recent Trends in Oral Tongue Cancer Incidence in the United States by Region

Virginia Tech Polytechnic Institute and State University (Virginia)

Preceptors: Ms. Julia Elrod, Dr. Philip Rosenberg, Dr. Anil Chaturvedi

96 Somayina Ezennia

Alu Retroelement Copy Number and Lung Cancer Risk in the Prospective Prostate, Lung, Colorectal and Ovarian (PLCO) Cancer Screening Trial

Washington University in St Louis (Missouri)

Preceptor: Dr. Jason Wong

97 Jared Garfinkel

Helicobacter pylori Seropositivity, Pepsinogens and Circulating Inflammation Markers
Columbia University Mailman School of Public Health (New York)

Preceptor: Dr. Minkyong Song

98 Jessica Godinez Paredes

Analysis of Clinically Relevant Breast Cancer Germline Variants from Whole-exome Sequencing in a Cohort of Mexican Young Women

University of Nevada Las Vegas (Nevada)

Preceptor: Dr. Michael Dean

99 Baqar Husain

The Cancer Disparity in Gender Minority Adults: An Assessment of Risk Factors

Yale School of Public Health (Connecticut)

Preceptor: Dr. Sarah Jackson

100 Ali Khan

Body Mass Index and Risk of Progression From Monoclonal Gammopathy of Undetermined Significance to Multiple Myeloma

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Jonathan Hofmann, Dr. Vicky Chang

101 Nikita Marcou

Chromosomal Abnormalities in Peripheral Blood of Patients with Myelofibrosis

Northwestern University (Illinois)

Preceptors: Dr. Shahinaz Gadalla, Dr. Maryam Rafati

102 Rose Milano

Characterizing HPV18-Positive Cervical Cancer Cell Lines Reveals HPV Integration Effects on Gene Expression

George Washington University (District of Columbia)

Preceptors: Dr. Michael Dean, Ms. Nicole Rossi

103 Brian Richardson

Testing the Interaction between Polygenic Risk Score and an Environmental Factor Using Summary Statistics of Genome-wide Association Studies

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Jianxin Shi

104 Eric Ruan¹, Erika Nemeth²

Exploring NCI Prostate, Lung, Colon, and Ovary (PLCO) Study Data with FAIR Web Computing

¹Stony Brook University (New York), ²Stony Brook University (New York)

Preceptor: Dr. Jonas Almeida

105 Thomas Shao

Using Cluster Models to Identify Groups of Farmers with Similar Pesticide Usage: The Biomarkers of Exposure and Effect in Agriculture (BEEA) Study

Yale University (Connecticut)

Preceptors: Dr. Melissa Friesen, Dr. Shuai Xie

106 Sruthi Srinivasan

Hematopoietic Chromosomal Alterations and Their Associations with Chronic Lymphocytic Leukemia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Mitchell Machiela, Dr. Shu-Hong Lin, Dr. Derek Brown

107 Amy Tao

Automated Evaluation of p16 Immunohistochemistry for Diagnosis of Cervical Precancer

University of North Texas Health Science Center Texas College of Osteopathic Medicine (Texas)

Preceptors: Dr. Nicolas Wentzensen, Dr. Megan Clarke

108 Megan Wohlfarth

A Systematic Review and Meta-analysis on the Risk Factors for Endometrial Cancer by Histologic Subtype

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Megan Clarke, Dr. Nicolas Wentzensen

109 Joshua Woo

Platelet-motivated Investigation of Single Nucleotide Polymorphisms Associated with Endemic Burkitt lymphoma in the EMBLEM Study

Johns Hopkins University (Maryland)

Preceptors: Dr. Sam Mbulaiteye, Mr. Lei Song, Dr. Kai Yu

110 Joshuah Yon

Partitioning Heritability Enrichment for Melanoma Using Specific Cell Types

University of Rochester (New York)

Preceptors: Dr. Kevin Brown, Dr. Rohit Thakur

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

111 Ma Ritchelle Bayron

Discovering Novel Target Genes for Merkel Cell Carcinoma Treatment

Virginia Polytechnic Institute and State University (Virginia)

Preceptor: Dr. Khalid Garman

112 Ali Khan

Similarities between Merkel Cell Development and Merkel Cell Carcinoma Provide Clues for Therapy

The George Washington University (District of Columbia)

Preceptors: Dr. Isaac Brownell, Dr. Natasha Hill, Dr. Khalid Garman, Dr. Lingling Miao

113 Adelle Perkelvald

Analysis and Census of RNA Binding Proteins

Touro College (New York)

Preceptors: Dr. Markus Hafner, Dr. Robert Walker, Ms. Elizabeth Aliberti, Mr. Martyn Green

National Institute of Environmental Health Sciences (NIEHS) Posters

114 Fatima Ahmed

Automatic Visualization of Single-cell Heterogeneity

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Benedict Anchang

115 Jaya Alagar

Automated Method to Improve the ex vivo Quantification of ABC Transporter Activity at the Blood-Brain Barrier in Response to Emerging Environmental Toxicants

Williams College (Massachusetts)

Preceptor: Dr. Ronald Cannon

116 Claire Ashley

Use of Wood-Burning Stoves and Fireplaces and Select Cardiovascular Outcomes among Sister Study Participants

University of North Carolina Gillings School of Global Public Health (North Carolina)

Preceptor: Dr. Suril Mehta

117 Lauren Chan

Exposure Ontologies: Harmonizing Survey Data for Interoperability and Reuse

Oregon State University (Oregon)

Preceptor: Dr. Charles Schmitt

118 Frederick Chang

Glis3 Regulates Thyroid Gland Cell Migration, Extracellular Matrix Organization, and Thyroid Hormone Biosynthesis Genes through TSH.

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Hong Soon Kang, Dr. Anton Jetten

119 Matthew Chen

Identifying High-throughput Screening Assays for Prediction of Genotoxicity and Carcinogenicity Potential

University of Chicago (Illinois)

Preceptors: Dr. Arun Pandiri, Dr. Warren Casey

120 Amy Chen

Perceived Neighborhood Safety during Childhood

Johns Hopkins University (Maryland)

Preceptors: Ms. Lauren Gullett, Dr. Symielle Gaston, Dr. Dana Alhasan, Dr. Chandra Jackson

121 Tammy Chen

Vitamin D and Time-to-Pregnancy in the PRESTO Cohort

Boston University (Massachusetts)

Preceptors: Dr. Anne Marie Jukic, Dr. Anita Subramanian

122 Sidney Donzella

Sedentary Time and Breast Cancer Risk in the Sister Study Cohort

University of Arizona (Arizona)

Preceptors: Dr. Mary Diaz Santana, Dr. Claire Weinberg

123 Anthony Guzzo

Effect of the Ionic State of Catalytic Cysteine (Cys-145) on SARS-CoV-2 Main Protease Structure

Rice University (Texas)

Preceptor: Dr. Lalith Perera

124 Jocelyn Hernandez

Defining The Effects of High-fat Diet on Hypothalamic Responses to Food

Delaware State University (Delaware)

Preceptor: Dr. Christopher Mazzone

125 Peter Huffman

Curation and Data Mining of ToxValDB: Cheminformatic Approaches to Outlier Detection

Vanderbilt University (Tennessee)

Preceptor: Dr. Kamel Mansouri

126 Patrick Jiang

Utility of Dual-energy X-ray Absorptiometry Imaging in Calcinosis

Virginia Polytechnic Institute and State University (Virginia)

Preceptor: Dr. Adam Schifffenbauer

127 Nivetha Karunakaran

WITHDRAWN:*Expression of RNA Polymerase Pausing Factors Is Altered in Chronic Kidney Disease*

North Carolina State University (North Carolina)
Preceptor: Dr. Jason Watts

128 Dongwon Lee

Analysis of the Relationship between Polyadenylation Site Selection and Poly(A) Tail Length in the Transition from Pachytene Spermatocytes to Round Spermatids
Duke University (North Carolina)
Preceptors: Dr. Marcos Morgan, Dr. Marine Baptissart, Dr. Brian Papas

129 Lauren Lim

Using cryo-EM to Explore the Structure of the Coronavirus Spike Protein
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Traci Hall, Dr. Chen Qiu, Dr. Mario Borgnia, Dr. Venkata Dandey

130 Anneliese Long

Serum Levels of C-Reactive Protein, and Anti-Müllerian Hormone, Follicle-Stimulating Hormone, and Inhibin B in Women Attempting Pregnancy in North Carolina
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Anne Marie Jukic, Dr. Hannah Jahnke

131 Shawn Mathew

WITHDRAWN: *The Effect of Zwitterionic Catalytic Residues (Cys145, His41) on the SARS-Cov-2 Main Protease Structure*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Lalith Perera

132 Kaytlyn Salmons

Associations between Sun and Early Life Farming Exposures on Epigenetic Aging in the Agricultural Lung Health Study
UT Health Science Center at Houston (Texas)
Preceptors: Dr. Thanh Hoang, Dr. Stephanie London

133 Jonathan Scalabrini

Environmental Exposures in Patients with Idiopathic Inflammatory Myopathies
Brown University (Rhode Island)
Preceptor: Dr. Lisa Rider

134 Alvin Sheng

Effects of Flood Risk and Climate Change on Census Tract-level Health Outcomes
North Carolina State University (North Carolina)
Preceptors: Dr. Kyle Messier

135 Kelsey Shimoda

Possible Direct and Indirect Actions of ASC Specks Contributing to Neurodegeneration

Oregon State University (Oregon)
Preceptor: Dr. Jean Harry

136 Madeline Somers

Gestational Weight Gain and Maternal Exposure to Three Classes of Consumer Product Chemicals

University of Michigan School of Public Health (Michigan)
Preceptors: Dr. Barrett Welch, Dr. Kelly Ferguson

137 Caitlin Su

The Role of ACADS and ACOX3 in Hepatocellular Carcinoma

Duke University (North Carolina)
Preceptors: Dr. Yi Fang, Dr. Xiaoling Li

138 Kayen Tang

Investigating the Role of Drd2 Expressing Hippocampal Neurons in Wheel Running Regulation

Vassar College (New York)
Preceptor: Dr. Ayland Letsinger

139 Judicael Tchoudja

Perceived Neighborhood Safety and Sleep Health in Childhood

University of Maryland, College Park (Maryland)
Preceptors: Ms. Lauren Gullett, Dr. Symielle Gaston, Dr. Dana Alhasan, Dr. Chandra Jackson

140 Rachel Thompson

Associations between Serum Iron Biomarkers and Breast Cancer Tumor Size

Grand Valley State University (Michigan)
Preceptors: Dr. Ann Von Holle, Dr. Clarice Weinberg

141 Pranav Viswanathan

Using CRISPR/Cas9 for Neural Protein Labeling and Gene Knock-down

Baylor University (Texas)
Preceptors: Dr. Oliver Goral, Dr. Jerry Yakel

Office of the Director (OD) Posters

142 Ja'Sean Holmes

Detecting Disparities in High-cholesterol Treatments for Participants in the All of Us Research Program

Colby College (Maine)
Preceptors: Dr. Sheri Schully, Dr. Claire Schulkey, Dr. Tamara Litwin, Dr. Ella Ulrike Klenke

143 Samantha Tesfaye

Disparities in Cervical Cancer Screening Rates Among All of Us Participants

Cornell University (New York)

Preceptor: Dr. Tamara Litwin

National Cancer Institute (NCI) Lightning Talks

144 Cori Amsellem

Development of Cytotoxic Antibodies to Cancer-expressed Surface Targets

University of Texas at Austin (Texas)

Preceptor: Dr. David Fitzgerald

145 Ons Yasmeen Bouali

Antibiotic Mouse Model in Anti PD-1 Immunotherapy

Elon University (North Carolina)

Preceptors: Dr. Raquel Costa, Dr. Miriam Fernandes

146 Lane Cavey

Developing Communication Strategies for Pediatric Patients Who Lack Speech

University of Alabama (Alabama)

Preceptors: Dr. Lori Wiener, Dr. Naomi Taylor

147 Wonjeong Choi

Discovery of Novel APOL1 Variant and Application of PGS (Polygenic Risk Score) in FSGS (Focal Segmental Glomerulosclerosis) Cohort

George Washington University (District of Columbia)

Preceptors: Dr. Sungkweon Cho, Dr. Cheryl Ann Winkler

148 Faithyn Chukundah

Metabolic Profiling of a Drosophila melanogaster Triglyceride Lipase

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Govind Kunduri, Dr. Usha Acharya, Dr. Jairaj Acharya

149 Tasmine Clement

Data-mining Genetic Interactions in Cancer Cells: Biology and Therapeutic Opportunities

University of Michigan (Michigan)

Preceptor: Dr. Xavier Bofill de Ros

150 Charles Coleman

SnapATAC Analysis of Open Chromatin Regions from Single Cell ATAC-seq Data Sets

College of William and Mary (Virginia)

Preceptor: Dr. Efsun Arda

151 Laura De Ravin

Whole Exome Mutational Analysis of Mouse Glioma Cell Lines for Vaccine Development

University of Maryland, College Park (Maryland)

Preceptors: Dr. Masaki Terabe, Dr. Taijun Hana

152 Kylie Enten

Evaluation of Key Genes Mediating Resistance to PEN-866

Towson University (Maryland)

Preceptors: Dr. Christine Heske, Ms. Princess Ekpo

153 Wawen Ewimbi

Out of Pocket Costs and Healthcare Access: Associations between Health Insurance Coverage Types and Delayed or Foregone Treatment in Individuals with Cancer

Paint Branch High School (Maryland)

Preceptors: Dr. Courtney Williams, Dr. Janet de Moor

154 Gabriel Franco

Cell Expression Patterns in Skin and Gastrointestinal Kaposi Sarcoma Lesions

Georgetown University (District of Columbia)

Preceptor: Dr. Joseph Ziegelbauer

155 Vainavi Gambhir

A Caregiver's Guide on Communicating Effectively to their Child about RUNX1-FPD

Walter Johnson High School (Maryland)

Preceptors: Dr. Lea Cunningham, Dr. Lori Wiener

156 Sasum Gassama

MicroRNA Target Mapping Using Novel m6A RNA Editor

E.L. Haynes Public Charter School (District of Columbia)

Preceptors: Mr. Ryan Stanton, Dr. Shuo Gu

157 Tom Givens

Immune Landscape of Ovarian Tumors in Old vs. Young Mice

Des Moines University College of Medicine and Health Science (Iowa)

Preceptor: Dr. Christina Annunziata

158 Tatum Horton

Interleukin 6: Connection Between Renal Cell Cancer and Idiopathic Membranous Nephropathy

Brunswick High School (Maryland)

Preceptors: Dr. Julio Valencia

159 Sharif Hosein

A Xeroderma Pigmentosum Founder Mutation and Its Relations to the African Slave Trade

SUNY Downstate College of Medicine (New York)

Preceptors: Dr. Kenneth Kraemer, Dr. John Digiovanna, Ms. Deborah Tamura, Dr. Sikandar Khan

160 Philip Huang

Downregulation of Receptor Tyrosine Kinases: Opportunities for Cancer Therapy

University of Michigan (Michigan)

Preceptors: Dr. David Wisniewski, Dr. Stanley Lipkowitz

161 Zahin Islam

Prognosis Associated Tumor Immune Signatures in Pediatric Neuroblastoma

Case Western Reserve University (Ohio)

Preceptors: Ms. Katherine Masih, Dr. Javed Khan

162 Samyak Jain¹, Elizabeth Willman²

A Literature Study on Stealth Nanoparticles as a Tool for siRNA Delivery

¹Governor Thomas Johnson High School (Maryland), ²Brunswick High School (Maryland)

Preceptors: Dr. Anu Puri, Dr. Bruce Shapiro

163 Kela Johnson

The Positive Implications of a Post-Mortem Repository for Covid-19 and Long Haul Syndrome Pathology

Georgia State university (Georgia)

Preceptor: Dr. Stephen Hewitt

164 Hannah Justice

The Power of Power BI: How Microsoft Power Platform Is Revolutionizing Offices

Winthrop University (South Carolina)

Preceptors: Mr. Nihar Shah, Ms. Laura Mazujian

165 Zoey Kline

Gene Set Enrichment Analysis (GSEA) of Differentially Expressed Genes in a Photosensitive Epilepsy Model

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Jairaj Acharya, Dr. Govind Kunduri, Dr. Usha Acharya

166 Ethan Lac

CD4 and CD8 T cells in Tumor Immune Microenvironment (TIME) Before and After the Administration of PROSTVAC

Academy Of Health Sciences @ PGCC (Maryland)

Preceptors: Ms. Shania Bailey, Dr. Houssein Abdul Sater

167 Katherine Lei

Comparison of Bone Lesions Seen on 18F-FDG and 18F-NaF PET/CT in Patients with Metastatic Genitourinary Tumors

Massachusetts Institute of Technology (Massachusetts)
Preceptors: Dr. Liza Lindenberg, Dr. Esther Mena Gonzalez

168 Fucheng Li

Training a Variational Autoencoder on Curated CODEX Datasets and Developing Downstream Algorithms to Differentiate Cancer Types

University of Maryland, College Park (Maryland)

Preceptors: Dr. Peng Jiang, Dr. Jacob Lubner

169 Eva Loewenstein

A Digital Pathology Repository of COVID-19 Pathology

University of Maryland, College Park (Maryland)

Preceptors: Dr. Stephen Hewitt, Dr. Sabrina Ramelli

170 Natalia Loga

CD4 and CD8 T cells in Tumor Immune Microenvironment (TIME) Before and After the Administration of PROSTVAC

Northwood High School (Maryland)

Preceptors: Ms. Shania Bailey, Dr. Houssein Abdul Sater

171 Abigail Lopez Freire

Analysis of microRNAs via mTOR Signaling in Human Lung Cancer

Eleanor Roosevelt High School (Maryland)

Preceptors: Dr. Beverly Mock, Dr. Joe Nguyen

172 Jason Luo

Analysis of Correlation of Cell Cycle Related Proteins and mRNA in Lung Cancers Using CPTAC Datasets

Winston Churchill High School (Maryland)

Preceptors: Dr. Dunrui Wang, Dr. Douglas Lowy

173 Erika Martin

COVID-19 Barriers and Facilitators of Time-restricted Eating Adherence

University of Maryland, College Park (Maryland)

Preceptors: Dr. Pat Boyd, Dr. Susan Czajkowski

174 Melissa Moreno

MicroRNA Target Mapping Using Novel Cytidine Base Editor

Wheaton High School (Maryland)

Preceptors: Mr. Ryan Stanton, Dr. Shuo Gu

175 Neeharika Nallapati

Identifying Common Variants of Uncertain Significance in GIST and Understanding Their Role in Cancer

University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Karylyne Reilly

176 Jovitha Nelson

Comparative Genomics of Canine and Human Osteosarcoma
Northeast Ohio Medical University (Ohio)
Preceptors: Dr. Paul Meltzer

177 Isabel Park

The HPV Serology Standardization Initiative: Update
George Washington University School of Medicine and Health Sciences (District of Columbia)
Preceptors: Dr. Ligia Pinto, Dr. Troy Kemp

178 Anna Plank

Searching for Viruses in Human Deep Sequencing Datasets
Massachusetts Institute of Technology (Massachusetts)
Preceptors: Dr. Christopher Buck, Dr. Gabriel Starrett

179 Simran Singh

Molecular Characterization of CNS Tumors at the Laboratory of Pathology at the NCI
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Zied Abdullaev, Ms. Courtney Ketchum

180 Jayant Siva

Comparative Analysis of Somatic SNV Detection Methods on SARS-CoV-2 and Tumor Sequencing Data
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Cenk Sahinalp, Mr. Suraj Joshi

181 Adam Teixeira

Neutrophils Concentrate in Necrotic Regions of 4T1 Mouse Tumors, a Model of Human Triple-Negative Breast Cancer
Oakdale High School (Maryland)
Preceptors: Dr. Stephen Lockett, Dr. David Scheiblin, Mrs. Abigail Walke

182 Ray Wang

How Information Technology Impacts and Supports Scientific Research
Governor Thomas Johnson High School (Maryland)
Preceptors: Mrs. Roxanne Angell, - Anahita Gooya

183 Madeline Yuen

Conceptual Design of Phage-based Application for the Treatment of Colorectal Cancer
Vanderbilt University (Tennessee)
Preceptors: Dr. Manoj Rajaure, Dr. Subhash Verma

184 Linglan Zhu

DIALipidIDR: A Comprehensive Lipid Identification R Package for Data-Independent LC-MS/MS Analysis

University of California Los Angeles (California)

Preceptors: Dr. Thomas Velenosi, Dr. Frank Gonzalez

National Cancer Institute – Division of Cancer Epidemiology and Genetics (NCI – DCEG) Lightning Talks

185 Ezinne Anyanwu

Analyzing RMS (Rhabdomyosarcoma) Differentiation Using RNAseq

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Katie Hebron, Dr. Marielle Yohe

186 Katherine Ho

Cardiovascular Disease Mortality among Breast Cancer Survivors in the US by County Socioeconomic Status and Rurality, 2000-2018

Yale School of Public Health (Connecticut)

Preceptors: Dr. Jacqueline Vo, Dr. Amy Berrington de González

187 Vivian Wang

Assigning Lung-cancer Screening Intervals Using Individualized Risk-prediction Models vs a Deep-learning Algorithm

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Rebecca Landy, Dr. Hormuzd Katki

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

188 Dania Abid

Effects of GnRH Agonist Co-administration on Cyclophosphamide-induced Primary Ovarian Insufficiency in SLE Females

Idaho College of Osteopathic Medicine (Idaho)

Preceptors: Dr. Sarfaraz Hasni

National Institute of Environmental Health Sciences (NIEHS) Lightning Talks

189 Theresa Boyer

Maternal Phthalate Exposure and Measures of Total Gestational Weight Gain
Johns Hopkins University (Maryland)
Preceptors: Dr. Paige Bommarito, Dr. Kelly Ferguson

190 Cynthia Fisher

Questionnaire-based Exposome-Wide Association Study (Ex-WAS) on Allergic Rhinitis in the Personalized Environment Genes Study Reveals Novel and Established Risk Factors
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. John House, Dr. Alison Motsinger-Reif

191 Alexander Grdzlishvili

Characterizing the SARS-CoV-2 Nsp15 EndoU Nuclease Domain: Insights into the Reaction Mechanism and SARS-CoV-2 Variants
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Meredith Frazier, Mr. Daniel Stewart, Dr. Robin Stanley

192 Kelly Rodriguez Navarro

Establishing a Role for Rev1 in Base Excision Repair
Academy Of Health Sciences @ PGCC (Maryland)
Preceptors: Mr. Ethan Brown, Dr. Samuel Wilson

Office of the Director (OD) – High School Scientific Training and
Enrichment Program (HiSTEP) Lightning Talks

193 Grace Aboagye

The 2021 Virtual HiSTEP Experience
Charles Herbert Flowers High School (Maryland)
Preceptor: Dr. Kristen Zukosky

194 Folajimi Adejumo

The 2021 Virtual HiSTEP Experience
E.L. Haynes Public Charter School (District of Columbia)
Preceptor: Dr. Kristen Zukosky

195 Adaiba Agbu

The 2021 Virtual HiSTEP Experience
Eleanor Roosevelt High School (Maryland)
Preceptor: Dr. Kristen Zukosky

196 Krystal Amihere

The 2021 Virtual HiSTEP Experience
Academy of Health Sciences at Prince Georges Community College (Maryland)

Preceptor: Dr. Kristen Zukosky

197 Spencer Annor-Ampofo

NIH HiSTEP Experience 2021

Mount Vernon High school (Virginia)

Preceptor: Dr. Kristen Zukosky

198 Naana Asamoah

The 2021 Virtual HiSTEP Experience

James Hubert Blake High School (Maryland)

Preceptor: Dr. Kristen Zukosky

199 Gina Bonazelli

The 2021 Virtual HiSTEP Experience

Montgomery Blair High School (Maryland)

Preceptor: Dr. Kristen Zukosky

200 Falzah Farooq

The 2021 Virtual HiSTEP Experience

Dominion High School (Virginia)

Preceptor: Dr. Kristen Zukosky

201 Rusmika Fernando

The Virtual Adventure of HISTEP 2021

John F. Kennedy High School (Maryland)

Preceptor: Dr. Kristen Zukosky

202 Andrea Flores

The 2021 Virtual HiSTEP Experience

Colonel Zadok Magruder Highschool (Maryland)

Preceptor: Dr. Kristen Zukosky

203 Nayely Garcia Herrera

The 2021 Virtual HiSTEP Experience

Capital City Public Charter School (District of Columbia)

Preceptor: Dr. Kristen Zukosky

204 Divine Isingo

The 2021 Virtual HiSTEP Experience

Montgomery Blair High School (Maryland)

Preceptor: Dr. Kristen Zukosky

205 Vim Jayalal

The 2021 Virtual HiSTEP Experience

Watkins Mill High School (Maryland)
Preceptor: Dr. Kristen Zukosky

206 Kendra Jimenez

The 2021 Virtual HiSTEP Experience
Magruder High School (Maryland)
Preceptor: Dr. Kristen Zukosky

207 Gabriel Kengni Jr

The 2021 Virtual HiSTEP Experience
Wheaton High School (Maryland)
Preceptor: Dr. Kristen Zukosky

208 Trinity Lee

The 2021 Virtual HiSTEP Experience
McKinley Technology High School (District of Columbia)
Preceptor: Dr. Kristen Zukosky

209 Jeffery Lin

The 2021 Virtual HiSTEP Experience
Montgomery Blair High School (Maryland)
Preceptor: Dr. Kristen Zukosky

210 Elmer Mendoza

The 2021 Virtual HiSTEP Experience
Wheaton High School (Maryland)
Preceptor: Dr. Kristen Zukosky

211 Britney Montecinos Salinas

The 2021 Virtual HiSTEP Experience
Wheaton High School (Maryland)
Preceptor: Dr. Kristen Zukosky

212 Alex Nguyen

The 2021 Virtual HiSTEP Experience
Springbrook High School (Maryland)
Preceptors: Dr. Kristen Zukosky

213 Alan Ramirez

The 2021 Virtual HiSTEP Experience
North County High School (Maryland)
Preceptor: Dr. Kristen Zukosky

214 Beatriz Vasquez Lopez

The 2021 Virtual HiSTEP Experience

Wheaton High School (Maryland)

Preceptor: Dr. Kristen Zukosky

215 Khardiatou Wane

My Virtual Experience with HiSTEP 2021

Fairmont Heights High School (Maryland)

Preceptor: Dr. Kristen Zukosky

216 Selamawit Wondimu

The 2021 Virtual HiSTEP Experience

Calvin Coolidge Senior High School (District of Columbia)

Preceptor: Dr. Kristen Zukosky

Wednesday, August 4, 2021

Clinical Center (NCI) Posters

217 Polycarpe Bagereka

Using NIH-HEALS to Measure Post-op Coping in Gastrectomy Patients

Carleton College (Minnesota)

Preceptors: Dr. Ninet Sinaii, Dr. Ann Berger, Dr. Heather Rusch, Dr. Rezvan Ameli

218 Emily Baniewicz

Assessing and Treating Traumatic Brain Injury Remotely

University of South Carolina (South Carolina)

Preceptor: Ms. Julia Fontana

219 Andy Chen

Predicting Age and Five-year Survival From Abdominal CT Scans Using a Custom Variational Autoencoder Architecture

Johns Hopkins University (Maryland)

Preceptors: Dr. Ronald Summers, Dr. Daniel Elton

220 Olivia Conway

Investigation of HBV-mediated B Cell Malignant Transformation

University of Texas at Austin (Texas)

Preceptors: Dr. Valeria De Giorgi, Dr. Amanda Henning

221 Luis Estrada

The Use of Shear Wave Elastography in Assessing Hamstring Muscle Stiffness: A Scoping Review

Pomona College (California)

Preceptors: Dr. Katharine Alter, Dr. Kevin Cipriano, Dr. Jordan Wickstrom

222 Anne-Sophie Fratzscher

HapPy - Computational Haplotype Phasing Using Long Continuous Stretches of Homozygosity from the 1000 Genomes Project

McGill University (Canada)

Preceptors: Dr. Kshitij Srivastava, Dr. Willy Flegel

223 Soumith Gadila

The Role of MRI-based Radiomic Features in Assessment of Response to a Novel Therapy for RCC in Von Hippel Lindau

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ashkan Malayeri, Dr. Pouria Yazdian, Dr. Aditi Chaurasia

224 Matthew Gelin

Radiological Assessment of the Brain in Sickle Cell Patients after Stem Cell Transplantation

Amherst College (Massachusetts)

Preceptor: Dr. Nadia Biassou

225 Regan Halverson

Diversity, Phylogeny and Evolution of the Mitochondrial Genomes in Multiple Pneumocystis Species

Emory University (Georgia)

Preceptors: Dr. Liang Ma, Dr. Joe Kovacs

226 Eesha Kaul¹, Caitlin Corbin²

Using Machine Learning Algorithms to Classify Patients with Alzheimer's Disease

¹University of Maryland, College Park (Maryland), ²Ivy Tech Community College - Terre Haute (Indiana)

Preceptor: Mr. Kris Kim

227 Snigdha Marivada

Changes in Quality-of-Life Parameters in Patients Receiving Interventions for Cancer-associated Anemia: A Systematic Review and Meta Analysis

Nova Southeastern University (Florida)

Preceptors: Dr. Sandhya Panch, Dr. David Stroncek

228 Tarun Mattikalli

Universal Lesion Detection in CT Using Neural Network Ensembles

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ronald Summers, Dr. Tejas Mathai

229 Bilal Mohammad

Predicting Quality of CT Segmentations Using Variational Autoencoder and Machine Learning Regression Models

University of Maryland, College Park (Maryland)

Preceptors: Dr. Daniel Elton, Dr. Ronald Summers

230 Zeynep OZgur

A macOS Application to Record Tumor Measurement Scan Review Findings and Index Lesions

Northeast Ohio Medical University (Ohio)

Preceptor: Dr. Hadi Bagheri

231 Alec Peltekian

Detecting Different Characteristics of Generated CT Images

Case Western Reserve University (Ohio)

Preceptors: Mr. Tejas Mathai, Dr. Daniel Elton, Dr. Ronald Summers

232 Kristen Shaver

Neurofibromatosis Type I and Functional Outcome Measures: A Natural History Study

University of Texas Health Science Center at Houston School of Public Health (Texas)

Preceptors: Dr. Andrea Gross, Dr. Scott Paul

233 April Sokalsky

A Thematic Analysis of Dietary Avoidances and Supplement Use in Patients with Myalgic Encephalomyelitis/Chronic Fatigue Syndrome and Healthy Controls

George Washington University (District of Columbia)

Preceptors: Mrs. Sara Turner, Dr. Kirsten Zambell, Mrs. Shanna Yang

234 Lillian Spear

NIH Student Intern Program (SIP) Radiology Training Made Completely Virtual

University of Maryland, College Park (Maryland)

Preceptor: Dr. Les Folio

235 Joshua Starost

Longitudinal Human Epidermal and Dermal Transcriptomic Profiling at the Incisional Edge during Long Surgical Procedures

Case Western Reserve University (Ohio)

Preceptors: Dr. Matt Sapio, Dr. Michael Iadarola, Dr. Andrew Mannes

236 Max Thurston

Assistance or Resistance: How does Exoskeleton Control Mode Affect Gait Biomechanics and Muscle Activity in a Child with Crouch Gait from Cerebral Palsy?

University of Jyväskylä (Finland)

Preceptor: Dr. Thomas Bulea

245 Joey Saavedra

Characterizing Lung Function Reserve in Older Adults Free from Pulmonary Disease

Iowa State University (Iowa)

Preceptor: Dr. Eleanor Simonsick

246 Rodrigo A. Sardon Veliz

Large-scale Genomic Investigation of the Gut Microbiome on Parkinson's Disease Etiology

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sara Bandres-Ciga, Dr. Artur Francisco Schumacher Schuh

247 Lea Stith

Tau Asymmetry in the Aging Brain

University of California, Irvine (California)

Preceptors: Dr. Murat Bilgel, Dr. Lori Beason-Held, Dr. Susan Resnick

National Institute on Alcohol Abuse and Alcoholism (NIAAA) Posters

248 Rishitha Anumola

In-Vivo Measurements of Endocannabinoid Signaling during Striatum-dependent Behaviors

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Shana Augustin, Dr. David Lovinger

249 Nwamaka Azinge

Alcohol, Mice, and Anxiety: Are There Sex Differences between Male and Female Mice?

University of Maryland, Baltimore County (Maryland)

Preceptors: Ms. Marlisa Shaw, Dr. Veronica Alvarez

250 Hartley Carlson

Developing an Automated Rodent Behavior Analysis Pipeline to Study THC Effects on Irritability

University of Maryland, College Park (Maryland)

Preceptor: Dr. Andrew Kesner

251 Christina Kennard

The Influence of CHRNA5 and Other Genes on Alcohol Sensitivity

Pennsylvania State University (Pennsylvania)

Preceptors: Ms. Rhianna Vergeer, Dr. Shyamala Venkatesh, Dr. Vijay Ramchandani

252 Elisha Myers

A Neuroimaging Investigation: Understanding Excessive Alcohol Use in Relation to Race and Early Life Stressors

Charles E. Schmidt College of Medicine at Florida Atlantic University (Florida)

Preceptors: Dr. Lorenzo Leggio, Dr. Monica Faulkner

253 Kimia Samieinejad

Developing an Open-source Automated Rodent Sleep-stage Scoring Analysis Pipeline for High-throughput Study of Effects of THC on Sleep

University of Maryland, College Park (Maryland)

Preceptor: Dr. Andrew Kesner

254 Blyss Swan

Something to Take the Edge Off: How Stress from the COVID-19 Pandemic Is Impacting Minority Drinking Habits

George Washington University (District of Columbia)

Preceptors: Dr. Bethany Stangl, Dr. Vijay Ramchandani

255 Eric Turnquist

Executive Function Mediates the Relationship between Negative Emotionality and Alcohol Demand in the Addictions Neuroclinical Assessment

American University (District of Columbia)

Preceptors: Dr. Tommy Gunawan, Dr. Vijay Ramchandani

256 Darian Weaver

Changes in Drinking during the Covid-19 Pandemic and Underlying Factors

American University (District of Columbia)

Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

Posters

257 Noah Cubert

Video Monitoring System For Automated Detection of Mouse Scratching Behaviors

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ghadi Salem, Mr. Tom Pohida, Mr. Marcial Garmendia, Dr. Jianhua Zhang, Dr. William Simonds

258 Thomas Jones

Low Frequency Actuator for MR Elastography Applications

University of Maryland, College Park (Maryland)

Preceptors: Mr. Thomas Pohida, Mr. Randall Pursley, Dr. Magdoom Kulam, Dr. Peter Basser, Mr. Marcial Garmendia

259 Quentin Leifer

Development of Mouse Behavior Detection Software to Enhance Calcium Neuroimaging Analysis for Somatosensory Studies

University of Maryland, College Park (Maryland)

Preceptors: Mr. Jonathan Krynitsky, Dr. Ana Lourenco Inacio, Dr. Soohyun Lee, Mr. Tom Pohida

260 Hamzah Siddique

FPGA-based Timing and Signal Generator for a Compact Electron Paramagnetic Resonance Imaging System

University of Maryland, College Park (Maryland)

Preceptors: Mr. Randall Pursley, Dr. Devasahayam Nallathamby, Dr. Murali Krishna-Cherukuri, Mr. Tom Pohida

261 Jason Xie

Fluorescence Lifetime Imaging: Approaches and Applications

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Jay Knutson, Mr. Greg Alspaugh

National Institute on Drug Abuse (NIDA) Posters

262 Hamza Ahmed

Neuronal Network Analysis on Fluorescent Images with Big Data Sets Collected through Light Sheet Microscopy

University of Virginia (Virginia)

Preceptors: Dr. Marisela Morales, Dr. Shiliang Zhang, Dr. Alexy Shevelkin

263 Cecile Brinkley

WITHDRAWN: *Brain State Dynamics during Working Memory in Childhood*

University of Virginia (Virginia)

Preceptor: Dr. Hong Gu

264 Jason Clarke

Nucleus Accumbens Projecting Neurons Involved in Behavioral Salience and Aversive Learning

Prince George's Community College (Maryland)

Preceptors: Dr. Chase Francis, Dr. Marisela Morales

265 Bryan Dong

Analysis of Live Calcium Imaging of Nucleus Accumbens Neuronal Activity in Free-moving Mice

Johns Hopkins University (Maryland)

Preceptors: Dr. Giovanni Barbera, Dr. Yan Zhang, Dr. Da-Ting Lin

266 Orlando Espinoza

Role of the Dorsal Raphe Nucleus in the Reinstatement of Cocaine-seeking Behavior

Johns Hopkins University (Maryland)

Preceptors: Dr. Marisela Morales, Dr. Flavia Barbano

267 Miglanche Ghomsi Nono

Optimizing Fast-scan Cyclic Voltammetry Data Analysis

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Gianluigi Tanda, - Melinda Hersey

268 Brooke Gumataotao

Drug Abuse in Adolescence

University of California, Davis (California)

Preceptor: Mrs. Christie Brannock

269 Daniel Habib

Mining Digital Media to Understand the Individual and Societal Impact of Substance Use Disorders

Johns Hopkins University (Maryland)

Preceptors: Dr. Brenda Curtis, Mr. Salvatore Giorgi, Mr. Doug Bellew, Dr. TingTing Liu

270 McKenzie Hall

RNAi Screen Identifies Key Players in Exodosis

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Emily Wires, Dr. Brandon Harvey

271 Oyenike ilaka

Exploring the mechanisms of Sigma-1 receptor (Sig-1R) chaperone in regulating the vesicle velocity along axon through an action on glycolysis.

Albany Medical College (New York)

Preceptors: Dr. Simon Couly, Dr. Yuko Yasui

272 Heesu (Ally) Kim

Characterizing the Influence of Handedness in Common Functional Neuroimaging Tasks

Wellesley College (Massachusetts)

Preceptors: Dr. Betty Jo Salmeron, Dr. Thomas Ross, Dr. Elliot Stein

273 Ermelinda Ndoka

The Role of Sigma-1 Receptor in Opioid-induced Hyperalgesia: A Preliminary Study

Loyola University Chicago Stritch School of Medicine (Illinois)

Preceptors: Dr. Hsiang-En Wu, Dr. Tsung-Ping Su

274 Julie Nguyen

Using Deep Learning to Predict Drug Binding Affinities at DAT and hERG

University of the Sciences (Pennsylvania)
Preceptors: Dr. Kuo Hao Lee, Dr. Lei Shi

275 Caleb Park

The Effects of Cocaine Self-administration on Economic Decision Making
Emory University (Georgia)
Preceptors: Dr. Geoffrey Schoenbaum, Dr. Matthew Gardner

276 Anika Park

Analysis of Compulsive Grooming Behavior Triggered by Activation of Aversive Parvalbumin Expressing Neurons in the Anterior Hypothalamic Area
Vanderbilt University (Tennessee)
Preceptors: Dr. Yeka Aponte, Dr. Brenton Laing

277 Ansel Schoenbaum

Clear Volume Analysis with Machine Learning (CVA-ML): An Open-source Rat-optimized Pipeline to Identify Neuronal Ensembles Underlying Context-induced Reinstatement of Oxycodone Seeking
Catonsville High School (Maryland)
Preceptors: Dr. Rajtarun Madangopal, Dr. Yavin Shaham

278 Massoud Sharif

Investigating the Relationship between Peroxisome Proliferator Activated Receptors (PPARs) and the Endocannabinoid System
Johns Hopkins University (Maryland)
Preceptors: Dr. Briana Hempel, Dr. Zheng-Xiong Xi

279 Ngan Vo

Neural Representation of Reward Seeking in the Nucleus Accumbens
University of Maryland (Maryland)
Preceptor: Dr. Yan Zhang

National Institute of Mental Health (NIMH) Posters

280 Katie Abramowitz

Analyzing the Relationship between the Monetary Incentive Delay Task and the PHQ-8: Are Reaction Times Correlated with Depression Severity?
Bates College (Maine)
Preceptors: Dr. Jennifer Evans, Ms. Claire Punturieri

281 Deniz Akdere

Whole-body PET Imaging of Cyclooxygenase-1 with [11C]PS13

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robert Innis, Ms. Sara Rubovits, Ms. Bruny Kenou, Ms. Maia Van Buskirk

282 Maarya Akmal

Health and Behavioral Impact of COVID-19 on the Offspring of Essential Workers

Texas A&M University (Texas)

Preceptors: Dr. Kathleen Merikangas, Dr. Diana Paksarian

283 Bryan Alvarez-Carcamo

The Effect of kappa Opioid Receptor Inhibition on the Expression of Platform-mediated Avoidance

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Rodolfo Flores Garcia, Ms. Monique Awanyai, Dr. Hugo Tejada

284 Mariane Ball

Measles Vaccination of the Common Marmoset (Callithrix jacchus)

College of William & Mary (Virginia)

Preceptor: Dr. Krystal Allen-Worthington

285 Yair Ben-Dor

Perimenopausal Depression: Prospective Longitudinal Study of Women Transitioning Through the Menopause

Charles E. Smith Jewish Day School (Maryland)

Preceptors: Dr. Peter Schmidt, Dr. Katherine Cole

286 Naama Ben-Dor

Neuropsychological Assessment of Memory in Women Transitioning Through the Menopause

Charles E Smith Jewish Day School (Maryland)

Preceptors: Dr. Peter Schmidt, Dr. Katherine Cole

287 Clare Brandes

Visual Tuning of Mouse V1 Neurons Predicts Sensitivity to Cell-Specific Optogenetic Input

Georgetown University (District of Columbia)

Preceptors: Dr. Mark Histed, Ms. Nina Friedman, Ms. Hannah Douglas

288 Rachel Chen

Characterizing Acute Effects of Ketamine on Reward Processing through a Monetary Incentive Delay Task

University of Rochester (New York)

Preceptor: Dr. Jessica Gilbert

289 Donald Daniel

Developmental Genes and Schizophrenia Risk

Brown University (Rhode Island)

Preceptors: Dr. Daniel Eisenberg, Dr. Karen Berman

290 Jason Fernando

Associations between Environmental Characteristics and Irritability in a Transdiagnostic Juvenile Sample

University of Michigan (Michigan)

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291 Beata Gelman

Hippocampal Receptor Quantification with R

University of Maryland, College Park (Maryland)

Preceptors: Dr. Adi Cymerblit-Sabba, Ms. Michaela Cooke, Mr. Oliver Holmes, Dr. Scott Young, Dr. Su Hyun Lee, Ms. June Song

292 Laura Jett

A Bridge between Modalities: Utilizing EEG and fMRI to Investigate the Effects of Behavioral Inhibition on Flanker Task Performance

University of California, Davis (California)

Preceptors: Dr. Daniel Pine, Dr. Matt Moradi, Dr. Anderson Winkler

293 Dartanyon Jones

A Quantification Method for Spatial Mapping of Gene Expression across the Antero-Posterior Axis of the Paraventricular Thalamus

Howard University (District of Columbia)

Preceptors: Mrs. Claire Gao, Mrs. Alison Bashford, Dr. Mario Penzo

294 Aanika Kashyap

Understanding Visual Cortical Computation: Novel Activity Patterns Generated with Holographic Optogenetic Stimulation Modify Neural Responses

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Preceptors: Ms. Hannah Douglas, Ms. Nina Friedman, Dr. Mark Histed

295 Alayna Kinhead

Participation of Cholinergic Neurons in the Encoding of Approach and Avoidance Behaviors

Georgetown University (District of Columbia)

Preceptors: Dr. David Talmage, Dr. Ronald Kim, Dr. Mala Ananth, Dr. Lorna Role

296 Meghna Krishnamurthy

Association between Suicide Risk and a Mental Health Diagnosis: An Examination of Medical Patients by Race/Ethnicity

College of New Jersey (New Jersey)

Preceptors: Dr. Lisa Horowitz, Dr. Maryland Pao, Ms. Annabelle Mournet, Mr. Nathan Lowry

297 Aileen Lo

Characterization of PET Imaging Probes with Selectivity for the Glu2NA Subunit of the NMDA Receptor

Princeton University (New Jersey)

Preceptors: Dr. Lisheng Cai, Dr. Victor Pike, Dr. Robert Innis

298 Sanjana Malla

Exploring the Effects of Chronic Social Defeat Stress on Neurovasculature with Single Cell RNA-Seq

Georgetown University (District of Columbia)

Preceptors: Dr. Michael Lehmann, Dr. Miles Herkenham

299 Matthew Miller

Novel Metrics in the Sleep EEG to Assess Neurodevelopmental Trajectories.

Yale College (Connecticut)

Preceptor: Dr. Ashura Buckley

300 Michael Mugerwa

Using fNIRS to Examine Language Development between Verbal and Minimally Verbal Children

Columbia University (New York)

Preceptors: Dr. Emma Condry, Dr. Audrey Thurm

301 Neethi Narasimha

Use of Social Paradigms to Observe Behavioral Changes in Avpr1 and Oxt Knockout Mice

University of South Florida (Florida)

Preceptors: Dr. Adi Cymerblit-Sabba, Mr. Oliver Holmes, Dr. W Scott Young

302 Chloe Noh

Anatomical Architecture of Nucleus Accumbens D3 Receptor-expressing Neurons

Harvard University (Massachusetts)

Preceptors: Mr. Juan Enriquez Traba, Dr. Hugo Tejeda

303 Corey Richier

Implementation of a BrainAge Algorithm Using a Convolutional Neural Network Approach

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Anderson Winkler, Dr. Chelsea Sawyers, Dr. Daniel Pine

304 Madeline Seeley-Hacker

Association between Youth Suicide Risk and Parental Marital Status

Catholic University of America (District of Columbia)

Preceptors: Dr. Lisa Horowitz, Dr. Maryland Pao, Mr. Nathan Lowry

305 Mohamed Sheikhi

Cyclooxygenase Quantification in The Brain Using PET Radioligands

University of Maryland, College Park (Maryland)

Preceptors: Dr. Robert Innis, Ms. Bruny Kenou, Ms. Maia Van Buskirk, Ms. Sara Rubovits

306 Tesia Shi

Whole Brain Neuronal Activity Mapping of Frustrative Nonreward in Mice

University of Maryland, College Park (Maryland)

Preceptors: Dr. Sarah Williams, Mr. Stephen Wissner, Dr. Ted Usdin

307 Ananya Swaminathan

Melatonin as a Potential Biomarker for Sleep Patterns and Disturbances in Migraine and Depression

Johns Hopkins University (Maryland)

Preceptor: Dr. Kathleen Merikangas

308 Liya Tadesse

Applications of Reinforcement learning

Northern Virginia Community College (Virginia)

Preceptors: Ms. Miriam Janssen, Mr. Christopher Lewarne, Ms. Vanessa Morgan

309 Olufunmilayo Telli

Neighborhood Resource Level as a Moderator of Symptom Severity and Impairment in a Sample of Transdiagnostic Youth

University of Maryland, Baltimore County (UMBC) (Maryland)

Preceptors: Dr. Ellen Leibenluft, Dr. Elise Cardinale, Mr. Issac Morales

310 Pooja Varma

Characterization of Fasciola Cinereum

Nova Southeastern University (Florida)

Preceptors: Dr. Su Lee, Ms. Michaela Cooke, Dr. Scott Young

311 Julia Versel

Insights into Dopaminergic Systems: Neurochemical Profiling of the Healthy Human Brain Using Magnetic Resonance Spectroscopy and Positron Emission Tomography

Loyola University Chicago Stritch School of Medicine (Illinois)

Preceptors: Dr. Daniel Eisenberg, Dr. Karen Berman

312 Queenie Wang

Characterization of Dynorphin-containing Neurons in the Medial Prefrontal Cortex

Tulane University (Louisiana)

Preceptors: Ms. Sanne Casello, Mr. Hector Castillo, Dr. Hugo Tejeda

313 Joseph Wood

Evaluating Language Milestones in Phelan-McDermid Syndrome

Canisius College (New York)

Preceptors: Dr. Emma Condry, Dr. Audrey Thurm

314 Noam Yanay

Impacts of Stressors on the Circadian System

University of Maryland, College Park (Maryland)

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315 Eunha Yim

Examining Relations between Amygdala Connectivity and Psychopathology in Infancy

University of Maryland, College Park (Maryland)

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National Institute of Neurological Disorders and Stroke (NINDS) Posters

316 Muhammad Abdulla

Modeling Studies of Calcium Dynamics Generating Periodic Sigh Activity in Respiratory Networks

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Preceptors: Dr. Jeffrey Smith, Dr. Ryan Phillips

317 Rebeca Amaya Escobar

Mouse Behavioral Performance in an Object Localization Task following Unilateral Whisker Deprivation.

University of Maryland, College Park (Maryland)

Preceptors: Dr. Patrick Wright, Dr. Emily Petrus, Dr. Alan Koretsky

318 Annika Backer

Surgical and Non-surgical Factors Influencing Pain Relief in Chiari-1 Patients

Smith College (Massachusetts)

Preceptors: Dr. Fredric Cantor, Dr. John Heiss

319 Aracely Barajas

Targeting Protein Arginine Methyltransferase 5 for Glioblastoma Therapy

Fort Lewis College (Colorado)

Preceptor: Dr. Yesh Banasavadi

320 Alex Bergeron

PD-1 Inhibitor-associated Neurotoxicity: A Case Study and Literature Review

Pacific Northwest University of Health Sciences (Washington)

Preceptor: Dr. Sophie Cho

321 Sonia Chandra

Participation of Cholinergic Neurons in the Encoding of Freezing Behavior in Response to Aversive and Appetitive Stimuli

University of Virginia (Virginia)

Preceptors: Dr. Ronald Kim, Dr. Mala Ananth, Dr. David Talmage, Dr. Lorna Role

322 Alice Chien

Analysis of Brain Volume in HIV Individuals through Atlas-free Brain Classification Using Derivative-Based Features (C-DEF)

University of California, Los Angeles (California)

Preceptors: Dr. Govind Bhagavatheeshwaran, Dr. Bryan Smith, Dr. Avindra Nath

323 Katherine Collamore

Olfactory Deficits and Language Dysfunction in Parkinson's Disease: An fMRI Study

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Mark Hallett, Dr. Silvina Horovitz, Dr. Laura Pesantez Pacheco

324 Ana Danko

Examining the Function of the Central Amygdala to Zona Incerta Pathway in Pain Modulation Using an Intersectional Approach

University of Southern California (California)

Preceptors: Dr. Yarimar Carrasquillo, Ms. Barbara Benowitz

325 Britney Forsyth

Deep Learning Algorithm for Classification of Hemorrhagic Transformation in MRI

Pennsylvania State University (Pennsylvania)

Preceptors: Ms. Samantha Jackson, Dr. Lawrence Latour, Dr. Marie Luby

326 Paloma Garcia

Participation of Cholinergic Neurons in the Encoding of Emotionally Salient Memories in Aging

Brown University (Rhode Island)

Preceptors: Dr. Mala Ananth, Dr. Lorna Role

327 Deeya Garg

Statins as a Neurotherapeutic Agent for HIV-mediated Neurotoxicity

Duke University (North Carolina)

Preceptor: Dr. Joe Steiner

328 Isuru Herath

Spinal Cord Atrophy and Cross-sectional Area Profiles in Syringomyelia

Cornell University (New York)

Preceptors: Mr. Henry Dieckhaus, Dr. Govind Bhagavatheeshwaran

329 Margarito Hernandez Fuentes

Examining Structural Plasticity in Medial Prefrontal Cortex-Ventral Hippocampal Circuits in a Mouse Model of the 22q11.2 Deletion Syndrome

Arizona State University (Arizona)

Preceptor: Dr. Dave Kupferschmidt

330 Justin Hill

Longitudinal Volumetric MRI Analysis Pipeline for Open-source Neuroimaging Platform (XNAT)

Harvard University (Maryland)

Preceptors: Dr. Govind Bhagavatheeshwaran, Ms. Prasanna Parvathaneni

331 Frank Horrigan

An Improved Image Processing Method for Accurate Measurement of Single-transporter Fluxes

Poolesville High School (Maryland)

Preceptors: Dr. Gabriel Fitzgerald, Dr. Joseph Mindell

332 Charly Jensen

Cryptococcal Meningitis with Hearing Loss: A Case Report and Literature Review

Pacific Northwest University of Health Sciences (Washington)

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333 Rohith Kesaraju

Examining Sex Differences in Neural Circuitry underlying Working Memory in an Animal Model of Schizophrenia Risk

Washington University in St. Louis (Missouri)

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334 Kenzo Kimura

Computational Exploration of Voltage Signaling through a Realistic Dopaminergic Axon

New York University (New York)

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335 Allison Lambert

Visualization and Averaging of Biological Structure Tomography

Brigham Young University (Utah)

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336 Keaton Mackey

Characterization of Leadership in Tribal Colleges and Universities

University of Pennsylvania (Pennsylvania)

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337 Erika McPhetridge

Battling Erasure: Invisible Stroke Disparities in Indigenous People

University of Southern California (California)
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338 Dustin Mullaney

Immune Cell Profiling of Human Pituitary Adenomas and Adjacent Normal Glands
Northern Arizona University (Arizona)
Preceptors: Dr. David Asuzu, Dr. Prashant Chittiboina

339 Brendon Murphy

How Epilepsy Surgery Affects Quality of Life and Cognition
Mclean High School (Virginia)
Preceptor: Ms. Shareena Rahman

340 Hasita Nalluri

Analyzing the Relationship between Brain Iron Accumulation and Parkinson's Disease Progression through MRI
Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. Silvina Horovitz, Dr. Mark Hallett

341 Leah Nez

Responsible Conduct of Research with Urban Indian Populations: Addressing Gaps in Ethical Commitments
Metropolitan State University of Denver (Colorado)
Preceptor: Dr. Sara Hull

342 Shannon O'Hara Wiora

A Comparison of Algorithms for Predicting Membrane Protein Structures
Tidewater Community College (Virginia)
Preceptors: Dr. Lucy Forrest, Dr. Vanessa Leone Alvarez

343 Nina Opem

Exploring the Physiological Mechanism of Bradykinesia in Parkinson's Disease
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Patrick McGurrin, Dr. Debra Ehrlich

344 Elisabeth Oskoui

Computational Modeling of Resiniferatoxin Interactions with TRP Channels
Potomac School (Virginia)
Preceptors: Mx. Katherine Huffer, Dr. Kenton Swartz

345 Thomas Policicchio

Lessons Learned: Analysis of the Design and Execution of Six Neuromuscular Disorder Clinical Trials
Dartmouth College (New Hampshire)

Preceptors: Dr. Joshua Todd, Ms. Kia Brooks

346 Kyle Pu

3D Reconstructions of Proteins in the Postsynaptic Density Using Cryo-Electron Microscopy and Tomography

University of California, Los Angeles (California)

Preceptors: Dr. Xiaobing Chen, Dr. Thomas Reese

347 Lucianne Rosario-Rodriguez

Neuroprotective Potential of Flavonoids

George Washington University (District of Columbia)

Preceptor: Dr. Joe Steiner

348 Loic Sangwa

Plot the Difference: Tools to Analyze Protein Symmetry

Johns Hopkins University (Maryland)

Preceptors: Dr. Antoniya Aleksandrova, Dr. Lucy Forrest

349 Kandace St. John

Identification of Guidance Molecules Affecting Migration of GnRH Neurons

St. John's University (New York)

Preceptor: Dr. Susan Wray

350 Nandini Yellamelli

How Does Serotonin Bind to the Human Serotonin Transporter?

Lehigh University (Pennsylvania)

Preceptors: Dr. Lucy Forrest, Dr. Eva Hellsberg

351 Yalda Zarrabi

Consequences of Age on the BFCN-BLA Circuit in Learning

Georgetown University (District of Columbia)

Preceptors: Dr. Mala Ananth, Dr. Ronald Kim, Dr. Lorna Role, Dr. David Talmage

National Library of Medicine (NLM) Posters

352 Elaheh Aghaarabi

Natural Language Processing to Capture Sentence Similarity from Electronic Health Records

Towson University (Maryland)

Preceptors: Dr. Qingyu Chen, Dr. Zhiyong Lu

353 Goonmeet Bajaj

Graph Attentive Networks for Synonymy Prediction at Scale in the UMLS Metathesaurus

Ohio State University (Ohio)
Preceptors: Dr. Vinh Nguyen, Dr. Olivier Bodenreider

354 James Han

A Computational Investigation of Factors Affecting Fold-switching Behavior in the NusG Protein Superfamily

Yale University (Connecticut)
Preceptor: Dr. Lauren Porter

355 Vishesh Javangula

Inserting New Biomedical Terms into the UMLS Metathesaurus Using Deep Learning Models for Synonymy Prediction

George Washington University (District of Columbia)
Preceptors: Dr. Olivier Bodenreider, Dr. Vinh Nguyen

356 Kaily Johnson

Developing a Library to Pair Predicted Fold-switching and Single-folding Proteins with High Levels of Sequence Identity

University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Lauren Porter

357 Deniz Kavzak Ufuktepe

Machine Learning for Automated Malaria Diagnosis

University of Missouri - Columbia (Missouri)
Preceptor: Dr. Stefan Jaeger

358 Sreenidhi Sankararaman

Derived Variants of Two-component Systems in Bacterial Immune Systems

Thomas Jefferson High School for Science and Technology (Virginia)
Preceptors: Dr. L Aravind, Dr. Gurmeet Kaur

359 Thilini Wijesiriwardene

Pretraining Language Models for Synonymy Prediction at Scale in the UMLS

Artificial Intelligence Institute, University of South Carolina (South Carolina)
Preceptors: Dr. Vinh Nguyen, Dr. Olivier Bodenreider

360 Deahan Yu

Understanding What Is Learned in a Multitask Approach to Identification of Adverse Drug Events in Text

University of Michigan (Michigan)
Preceptor: Dr. Dina Demner Fushman

361 Ivvone Zhou

Identifying Activators and Repressors in Cell Line-specific Regulatory Programs Using Deep Learning

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Ivan Ovcharenko, Dr. Wei Song

Clinical Center (CC) Lightning Talks

362 Megan Jiao

Developing a Virtual Deliberation Exercise to Promote Health Equity in the COVID-19 Pandemic Era

McGovern Medical School, University of Texas Health Science Center at Houston (Texas)

Preceptor: Dr. Marion Danis

363 Pushkar Shinde

Investigating the Role of Semaphorin 5A and 6B in LPS-induced Inflammation and Sepsis

Emory University (Georgia)

Preceptors: Dr. Parizad Torabi-Parizi, Dr. Shreya Kanth, Dr. Salina Gairhe

364 Shriansh Singh

Evaluating the Use of Religion and Spirituality Assessment Tools in Palliative Care

College of William & Mary (Virginia)

Preceptors: Dr. Ann Berger, Dr. Margaret Mahon

National Institute on Aging (NIA) Lightning Talks

365 Kiana Allen

The Impact of Sex-dependent Differences in Dietary and Pharmacological Interventions on Longevity and Healthspan

Alcorn State University (Mississippi)

Preceptors: Dr. Laura Pomatto, Dr. Rafael de Cabo

366 Samuel Allotey

Serum Cytokines and Biomarkers of Inflammation in a Population at Risk for Health Disparities: The HANDLS Cohort

University of Notre Dame (Indiana)

Preceptors: Dr. Michele Evans, Dr. Nicole Noren Hooten

367 Tyler Amos

Different Proliferation Rates of Young and Old B Cells Explained by Single Cell RNA Sequencing

Johns Hopkins University (Maryland)

Preceptors: Mr. Carlos Ticas Rodas, Dr. Patricia Gearhart

368 Dhiksha Balaji

Chronic Overexpression of Adenylyl Cyclase Type 8 in the Heart Markedly Enhances Cardiac Performance in Youth, but Leads to Heart Failure and Accelerated Aging Later in Life

Case Western Reserve University School of Medicine (Ohio)

Preceptors: Dr. Edward Lakatta, Dr. Christopher Morrell

369 Claire Barlow

Evaluation and Management of Frailty in the Context of MCI and Dementia

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lana Sargent, Dr. Andrew Singleton

370 Elizabeth Bolarinwa

The Association between Nerve Health and Taste/Fungiform Papillae Density

Howard University (District of Columbia)

Preceptor: Dr. Ajoy Karikkineth

371 Ana Cunningham

Heart Pathology and Morphology Changes across the Lifespan in the Study of Longitudinal Aging in Mice (SLAM)

Centennial High School (Maryland)

Preceptors: Dr. Rafael de Cabo, Dr. Simonetta Camandola, Dr. Eleonora Duregon

372 Wasilat Dosunmu

Analysis of i-Motifs and Their Potential Roles in Genome Homeostasis

University of Maryland, College Park (Maryland)

Preceptor: Dr. Robert Brosh

373 Daniel Etcheberrigaray

Diagnostic Accuracy of Magnetic Resonance Spectroscopy in Alzheimer's Disease: A Systematic Review and Meta-analysis

Atholton High School (Maryland)

Preceptors: Dr. Kostantinos Avgerinos, Dr. Dimitrios Kapogiannis

374 Aarish Hanif

Mechanisms of Action of Adenylyl Cyclase in the Heart

University Of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Khalid Chakir

375 Linnea Hertslet

Investigating the Diversity Gaps in Genetic Research across Neurodegenerative Diseases

University of Maryland, College Park (Maryland)

Preceptors: Ms. Hampton Leonard, Ms. Julianne Lake, Dr. Mike Nalls

376 Shirin Ismayil

Motif Analysis of NF- κ B Binding Sites in Genes with Different Kinetic Patterns of Activation

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Ranjan Sen, Dr. Noah Ollikainen

377 Albert Jackson

Investigation on the Effects of Lipid Toxicities in Alzheimer's Disease Pathology in an in vitro Cell Culture Model

Xavier University of Louisiana (Louisiana)

Preceptor: Dr. Liz Calzada

378 Andreanna Le

Reorganization of Striosome Neuron Subtypes in Dopamine-depleted Mouse Models

University of Maryland, College Park (Maryland)

Preceptors: Dr. Huaibin Cai, Dr. Jie Dong, Ms. Breanna Sullivan

379 Brittany Linus

AID Targeting in the IgH Variable Region

Stanford University (California)

Preceptors: Dr. Patricia Gearhart, Ms. Stormy Ruiz

380 Paul Ly

Modulation of Autophagy in Mice with ADCY8 Overexpression

Tufts University (Massachusetts)

Preceptor: Dr. Maria Perino

381 Anirban Mahanty

Time Restricted Feeding and Calorie Restriction Differentially Modulate Lung Disease Burden in Adult Female Mice

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Eleonora Duregon, Dr. Simonetta Camandola, Dr. Rafael De Cabo

382 Yomiyu Mekonnen

Polygenic Risk Score Analyses of Psychiatric Disorders Linked to C9orf72-Mediated ALS

Johns Hopkins University (Maryland)

Preceptor: Dr. Sara Saez

383 Cynthia Moya

Drug Repurposing to Target ALS Pathways

Montgomery College (Maryland)

Preceptors: Dr. Sara Saez, Dr. Bryan Traynor

384 Chinenye Nwachukwu

Relationships between Serum Cytokines, DNA Methylation Status and Demographic Parameters in a Middle Aged Cohort

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Nicole Hooten, Dr. Michele Evans

385 Sylvia Okafor

Developing a Motor Function Index in a Rodent Model of Normal Cognitive Aging

University of Toronto St. George Campus (Canada)

Preceptors: Dr. Cliana Cooper, Dr. Peter Rapp

386 Emily Perez-Rodriguez

Inflammatory Cytokines in Relation to Biomarkers and Social Determinants of Health in the HANDLS Cohort

Johns Hopkins University (Maryland)

Preceptors: Dr. Nicole Noren Hooten, Dr. Michele Evans

387 Robert Rabelo-Fernandez

Developing Deep Learning Algorithms for KI-67 Proliferation Index Assessment of Malignant Neoplasms

University of Puerto Rico at Rio Piedras (Puerto Rico)

Preceptors: Dr. Eleonora Duregon, Dr. Rafael de Cabo, Dr. Simonetta Camandola

388 Anish Raju

Using Machine Learning to Discover Features and Regulatory Interactions of mRNA Decay

University of Arizona (Arizona)

Preceptors: Dr. Emmanouil Maragkakis, Dr. Showkat Dar

389 Chase Rector

Hippocampal Knockout of p300 Affects Learning and Memory in Mouse

Howard University (District of Columbia)

Preceptors: Ms. Lin Wang, Dr. Payel Sen

390 Tavia Roache

Consequences of Genomic DNA Mono-ribonucleotides for Chromosomal Stability

Howard University (District of Columbia)

Preceptor: Dr. Robert Brosh

391 Arthur Robinson

Single-cell RNAseq Analysis of Mouse Aortic Cells

Dartmouth College (New Hampshire)

Preceptor: Dr. Krystyna Mazan-Mamczarz

392 Prithish Sahoo

Hippocampal NPAS4 Expression in a Rat Model of Normal Cognitive Aging

Touro College of Osteopathic Medicine (New York)

Preceptors: Dr. Craig Myrum, Dr. Cristina Bañuelos

393 Kirsten Tran

Age-Related Accumulation of 5-Hydroxymethylcytosine in the Liver

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Payel Sen, Mr. James Ocean

394 Bhargav Vemuri

Machine Learning to Predict mRNA Translation Efficiency from Sequence Features

University of Cincinnati (Ohio)

Preceptor: Dr. Matthew Payea

395 Joy Youn

Circuitry Serving Early and Late Non-motor Symptoms of Parkinson's Disease

University of California, Los Angeles (California)

Preceptors: Dr. Sarah Hawes, Mr. Braden Oldham, Dr. Huabin Cai

396 Eric Zhu

An Overview of the Genetics of Chronic T-cell Dysfunction

University of Maryland, College Park (Maryland)

Preceptor: Dr. Nan-ping Weng

National Institute of Biomedical Imaging and Bioengineering (NIBIB)
Lightning Talks

397 Deborah Acheampong

Identifying the Effects of Taxane-based Chemotherapy on Actomyosin Cortical Properties in Paclitaxel Sensitive and Resistant Cancers

University of Maryland, College Park (Maryland)

Preceptors: Dr. Alexander Cartagena-Rivera, Ms. Chynna Smith, Ms. Jamie Neal

398 Diya Dinesh

Enhanced Augmented Reality Visualization and Manipulation of 3D Clinical and Biomedical Data through Gesture and Gaze with the HoloLens 2

Thomas Jefferson High School for Science and Technology (Virginia)

Preceptors: Dr. Peter Basser, Dr. Raisa Freidlin, Mr. Marcial Garmendia, Mr. Thomas Pohida

399 Francis Oparaocha

Developing a Raspberry Pi-based Freezer Monitoring Solution for the NIH Campus

University of Maryland, College Park (Maryland)

Preceptors: Mr. Tom Pohida, Mr. John Kakareka, Mr. Randy Pursley, Mr. Brent Abel, Mr. Warren Herder, Mr. Aziz Hanonu

National Institute on Drug Abuse (NIDA) Lightning Talks

400 Lu Collina

The Effectiveness of Learning Classifications on Individuals with Learning Disabilities

The Slena School (Maryland)

Preceptor: Ms. Christie Brannock

401 Sofia Flores-Rojas

Spirituality's Manifestations in Addiction Treatment Facilities

Rice University (Texas)

Preceptor: Ms. Christie Brannock

402 Shayari Peiris

Heritability of the Positive-Negative Brain Connectome Mode: A Twin Study on ABCD Project

Wake Forest University (North Carolina)

Preceptor: Dr. Xiang Xiao

National Institute of Mental Health (NIMH) Lightning Talks

403 Olivia Clarke

The Association of Suicide and Trauma History with Self-reported Fear, Anxiety and Anxiety Sensitivity

Mount Holyoke College (Massachusetts)

Preceptors: Dr. Elizabeth Ballard, Dr. Angel de la Cruz Landrau

404 Harry Feng

WITHDRAWN: *SynGap1 Deletion Effects on GABAergic Cortical Neuron Cell Morphology*

Emory University (Georgia)

Preceptors: Dr. Soohyun Lee, Mr. Shovan Naskar

405 Sam Mansfield

A Summary of Radioligands Targeting GluN2B

Brigham Young University (Utah)

Preceptors: Dr. Lisheng Cai, Dr. Victor Pike

406 Rachel Noorani

ECT Practice in the USA: Survey Rationale and Design

University of Maryland, College Park (Maryland)
Preceptors: Dr. William Regenold, Dr. Sarah Lisanby

407 Pooja Shankar

Treatments for Acute Suicidality: Review and Recommendations
American University (District of Columbia)
Preceptor: Dr. Mani Yavi

408 Katie Shrout

Magnetoencephalography during a Naturalistic Viewing Task
University of Maryland, College Park (Maryland)
Preceptors: Dr. Allison Nugent, Dr. Jeff Stout

409 Ellen Sojka

Quantification and Classification of Dendritic Spines in Hippocampal CA1 throughout Development
Colgate University (New York)
Preceptors: Dr. Zheng Li, Mr. Kevin Keary

410 Avani Venkatesh

Foot-shock Stress Induced Effects on cFos and per2 Expression in the Suprachiasmatic Nucleus of the Hypothalamus
Virginia Commonwealth University (Virginia)
Preceptor: Ms. Claire Gao

411 Elizabeth Wat

Relationship between Prereading Measures and Inter-subject Connectivity: An fMRI Study
University of Virginia (Virginia)
Preceptors: Dr. Peter Molfose, Dr. Peter Bandettini

National Institute of Neurological Disorders and Stroke (NINDS) Lightning Talks

412 Marcus Alexander

Single Cell Resolution Multiomic Study of Sporadic Pituitary Adenoma Pathogenesis
Frank H. Netter MD School of Medicine (Connecticut)
Preceptor: Dr. Prashant Chittiboina

413 Amin Attari

Detection of Radiologically Isolated Syndrome (RIS) Using Lower Limb Vibration
George Washington University (District of Columbia)
Preceptors: Dr. Irene Cortese, Dr. Shila Azodi

414 Christopher Bi

Mapping Communication between Neurons through Analysis of Single Unit Spiking Data

Rice University (Texas)

Preceptor: Dr. Kareem Zaghloul

415 Shoshenna Chee

The Association of Suicide Attempts and Anhedonia With Self-reported Fear, Anxiety, and Anxiety Sensitivity

Dine College (Arizona)

Preceptor: Dr. Elizabeth Ballard

416 Chyanne Eaton

The Placebo Effect in the Treatment of Cervical Dystonia

University of South Florida (Florida)

Preceptors: Dr. Mark Hallett, Mr. Terance Camacho

417 Elizabeth Gillette

Comparison of Brain Tissue Classification Methods in Structurally Abnormal Brains

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Sara Inati

418 Charlotte Ishikawa

Patterns of Sleep in Epilepsy Patients

Southern Adventist University (Tennessee)

Preceptor: Dr. Shareena Rahman

419 Delores Luttrell

Presence of Viral Proteins in CSF of People Living with Managed HIV as a Potential Marker of Disease Progression

George Mason University (Virginia)

Preceptors: Dr. Lisa Henderson, Dr. Avi Nath

420 Cullen Nockideneh

In silico Analysis of Candidate Transcription Factors Regulating the Expression of Nicotine Acetylcholine Receptor, D alpha 1

Northern Arizona University (Arizona)

Preceptors: Dr. Quan Yuan, Dr. Jun Yin

421 Sydney Ragland

Individual and Neighborhood Socioeconomic Status and Elevated Brain Amyloid: The ARIC-PET Dstudy

Howard University (District of Columbia)

Preceptor: Dr. Rebecca Gottesman

422 Uzma Rentia

Single-cell RNA-Seq Analysis of Oligodendrocytes in DTA-mediated Oligodendrocyte Ablation Model

George Washington University (District of Columbia)

Preceptors: Dr. Jing-Ping Lin, Ms. Alexis Brake, Dr. Brian Popko, Dr. Daniel Reich

423 Krystal Santiago Colon

Measuring Every Move: Kinematic Analysis of a Simple Behavior in Mice

University of Puerto Rico, Cayey Campus (Puerto Rico)

Preceptors: Ms. Isabelle Hua, Dr. Fabricio Do Couto Nicola, Dr. Ariel Levine

National Library of Medicine (NLM) Lightning Talks

424 Maryori Maloney Lopez

Costs and Benefits of Sexual Selection

Benjamin Banneker Academic High School (District of Columbia)

Preceptors: Dr. Nash Rochman, Dr. Eugene Koonin

425 Tochi Oguguo

Self-supervised Learning for Echocardiography View Classification in Open World Settings

Charles Herbert Flowers High School (Maryland)

Preceptors: Dr. Ghada Alzamzmiga, Dr. Sameer Antani

426 Solome Teferi

The Costs and Benefits of Sexual Selection

Springbrook High School (Maryland)

Preceptors: Dr. Nash Rochman, Dr. Eugene Koonin

Thursday, August 6, 2021

National Center for Advancing Translational Sciences (NCATS) Posters

427 Maria Antony

Designing an Assay to Identify LC3 Binders for Autophagosome Targeting and Lysosomal Degradation

University of Connecticut School of Medicine (Connecticut)

Preceptors: Mr. Tino Sanchez, Dr. Mark Henderson,

428 Sellers Hill

Quantitative Analysis of Vascular Networks in an in vitro Model of the Lung's Lower Respiratory Tract

Harvard University (Massachusetts)
Preceptors: Ms. Esther Sim, Dr. Marc Ferrer

429 William Kariampuzha

Epidemiological Information Extraction for Rare Diseases from PubMed

Texas Tech University (Texas)

Preceptor: Dr. Qian Zhu

430 Tracey Oellerich

Deep Learning on Embedded Protein-Protein Interaction Networks to Prioritize Disease Targets

George Mason University (Virginia)

Preceptors: Dr. Vishal Siramshetty

431 Deborah Rodriguez

Polo-like Kinases 1 PROTACs (PLK-1 PROTACs) Serving as Potential Anti-cancer Agents

University of Minnesota-Twin Cities (Minnesota)

Preceptor: Dr. Sandeep Rana

432 Wenyu Zeng

Predicting Bioassay Activity Outcome: Bayesian Modeling and Probabilistic Programming

George Washington University (District of Columbia)

Preceptors: Mr. Dac-Trung Nguyen, Dr. Alexey Zakharov

433 Irene Zhang

Quantitative Analysis of Vascular Networks in an in vitro Model of the Lung's Lower Respiratory Tract

Arizona State University (Arizona)

Preceptors: Ms. Esther Sim, Dr. Marc Ferrer

National Center for Complementary and Integrative Health (NCCIH)

Poster

434 Jacqueline de Melo

Investigating Differences in Neuronal Activation across Lateralization, Cell Type, and Sex in the Central Amygdala

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Yarimar Carrasquillo, Ms. Jeitzel Torres-Rodriguez

Preceptors: Dr. Xiaoyan Xu, Dr. Vijay Nagarajan, Dr. Rachel Caspi

443 Hailey Kim

Identification of Genes Involved in Photoreceptor Fate Determination in Zebrafish

Northwestern University (Illinois)

Preceptors: Dr. Wei Li, Dr. Juan Angueyra-Aristizabal, Ms. Laura Patak, Dr. Katie Kindt

444 Hong Le

Quantitative Assessment of Fluorescently-labeled Retinal Pigment Epithelial Cells in Living Human Eyes

Medical College of Virginia/Virginia Commonwealth University School of Medicine (Virginia)

Preceptors: Dr. Joanne Li, Dr. Johnny Tam

445 Deja Rush

An Epidemiological Study to Evaluate Environmental Effects as Potential Progenitors of Coloboma

Howard University College of Medicine (District of Columbia)

Preceptors: Dr. Brian Brooks, Dr. Tiziana Cogliati

446 Daniel Sanchez-Mendoza

Analyzing Differentially Expressed Genes Important for Optic Fissure Closure and Coloboma Observed between Different Species

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Brian Brooks, Dr. Tiziana Cogliati, Dr. Elangovan Boobalan, Dr. David McGaughey

447 Hector Sandoval

OCT Parameters of Geographic Atrophy Associated with Age-related Macular Degeneration

State University of New York: Downstate College of Medicine (New York)

Preceptors: Dr. Emily Chew, Dr. Catherine Cukras, Dr. Tiarnán Keenan, Dr. Tharindu De Silva

448 Rajiv Sastry

Evaluation of iPSC-Retinal Pigment Epithelium Manual Segmentation across Six Reviewers for Machine Learning Training

Harvard University (Massachusetts)

Preceptors: Dr. Davide Ortolan, Dr. Kapil Bharti

449 Jade Tai

Investigating Structural Remodeling in the Outer Plexiform Layer of Hibernating Ground Squirrel Retina

University of California, Los Angeles (California)

Preceptors: Dr. John Ball, Dr. Wei Li

450 Rachel Tam

A Spatial Analysis of Ellipsoid Zone Loss in Eyes with Hydroxychloroquine Toxicity

Princeton University (New Jersey)
Preceptor: Dr. Catherine Cukras

451 Nu Bao Tran Ton

Automated Segmentation and Quantitation of Retinal OCT Images in Animal Models
University of Oklahoma (Oklahoma)
Preceptors: Dr. Michael Redmond, Dr. Yan Li, Ms. Danielle Yee

452 Natalie Toth

Characterization of Cone Photoreceptor Structure in Retinitis Pigmentosa Using Adaptive Optics Retinal Imaging
Hamilton College (New York)
Preceptors: Dr. John Giannini, Dr. Johnny Tam

453 Amday Wolde

Evaluating the Use of Artificial Intelligence for Detection of Reticular Pseudodrusen in Adaptive Optics Retinal Imaging
Ohio State University College of Medicine (Ohio)
Preceptors: Dr. Joanne Li, Dr. Jianfei Liu, Dr. Johnny Tam

454 Alice Zhu

Transmembrane Domain of OCA2 Protein: Computational Analysis of Structure and Function
University of Maryland, College Park (Maryland)
Preceptor: Dr. Yuri Sergeev

National Human Genome Research Institute (NHGRI) Posters

455 Ruby Carter-Ogden

Perceptions of Black Women on NIPT for Sickle Cell Disease
North Carolina State University (North Carolina)
Preceptors: Mr. Vence Bonham, Ms. Ashley Buscetta, Dr. Shameka Thomas, Ms. Khadijah Abdallah

456 Jonathan Feige

Performance of Somatic Mutations in Classification of Endometrial Carcinomas with CpG Island Methylator Phenotype
Ohio University (Ohio)
Preceptor: Dr. Laura Elnitski

457 Quinn Hauck

Exploring Characteristics of Conserved Noncoding Elements (CNEs)
Johns Hopkins University (Maryland)

Preceptors: Dr. Paul Gonzalez, Dr. Andy Baxevanis

458 Elizabeth Kaji

Cognitive Function in Homozygote and Heterozygote GBA1 Mutation Carriers with and without Parkinsonism

University of Missouri-Kansas City School of Medicine (Missouri)

Preceptors: Dr. Ellen Sidransky, Dr. Grisel Lopez

459 Evanjelin Mahmoodi

Myopia in Highly Aggregated Amish Pedigrees Significantly Linked to Multiple Risk Loci, Including Colorblindness Gene CNGB3, Using Whole Genome Sequence Data

University of California Santa Cruz (California)

Preceptors: Dr. Joan Bailey-Wilson, Dr. Anthony Musolf

460 Alexis McCraw

Caregiver Esteem, Impact on Schedule, and Mental Health: A Study of Parents of Chronically Ill Children

University of Tennessee Knoxville (Tennessee)

Preceptors: Dr. Jasmine Manalel, Dr. Melissa Zajdel

461 Aubrey Robinson

Social Demographic, Biological, Lifestyle of African American Participants and Their Risk Factors Related To Cardiovascular Disease

University Of San Francisco (California)

Preceptors: Dr. Rumana Khan, Dr. Sharon Davis

462 Sarah Royka

Global Vaccine Allocation: Ethical Theory and Public Opinion

Duke University (North Carolina)

Preceptor: Dr. Benjamin Berkman

463 Maya Sinha

Exploring the Role of K3 Homologs in Determining Poxvirus Host Range

University of California, Los Angeles (California)

Preceptors: Mr. Michael Chambers, Dr. Meru Sadhu

464 Skyler Sung

Functionally Annotating a Pathogen's Genome: Exploring SNPs in Candida auris Isolates from Chicago

Amherst College (Massachusetts)

Preceptors: Dr. Julie Segre, Dr. Diana Proctor, Dr. Sean Conlan

465 Lina Takemaru

Phylostratigraphy Reveals Diverse Evolutionary Histories of Disease-associated Ggenes

Cornell University (New York)
Preceptors: Dr. Sally Chang, Dr. Andy Baxevanis

National Heart, Lung, and Blood Institute (NHLBI) Posters

466 Clementine Adeyemi

The Role of Apolipoprotein A-II on Triglyceride Metabolism

University of Cincinnati (Ohio)

Preceptor: Dr. Alan Remaley

467 Vandana Agarwala

Deblurring Spiral MR Images Using Convolutional Neural Networks

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Ahsan Javed, Dr. Felicia Seemann

468 Oluwaseyi Akinrodemi

Investigating the Association between Neighborhood Deprivation Index and Health-related Outcomes in African Americans in Washington, D.C., Neighborhoods

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kosuke Tamura, Dr. Tiffany Powell-Wiley, Dr. Ulrike Klenke

469 Zainab Apalara

Incorporating Effects of Rare Variants into Polygenic Risk Score for Disease Risk Prediction Using WES data

University of California, Davis (California)

Preceptors: Dr. Mehdi Pirooznia, Dr. Yun-Ching Chen

470 Natalie Badillo

Analysis of Migration of Myosin 10 Knockout Dendritic Cells under Confinement

McDaniel College (Maryland)

Preceptors: Dr. John Hammer, Dr. Anjelika Gasilina

471 Alexa Bailey¹, Evan Gray²

Frozen in Time: The Value of NHLBI Human Biospecimens

¹Brigham Young University (Utah), ²Morehouse College (Georgia)

Preceptors: Ms. Susan Wong, Mr. Andrew Charneco, Ms. Darlene Allen

472 Alexis Burns

Identification, Prioritization, and Functional Prediction of lncRNA in Heart Disease

Georgetown University (District of Columbia)

Preceptors: Dr. Mehdi Pirooznia, Dr. Fayaz Seifuddin, Dr. Komudi Singh

473 Rachel Chae

Deep Learning-based Automatic Lung Segmentation for MR Images

Massachusetts Institute of Technology (Massachusetts)

Preceptors: Dr. Felicia Seemann, Dr. Ahsan Javed

474 Alisha Desai

tSNE, Trimap, and UMAP for Visualization and Dimensionality Reduction of Multicolor Flow Cytometry Data

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ankit Saxena, Dr. J. Philip McCoy

475 Alessandro Gagarin

Effect of Hydration on Aging: Clinical Data Analysis of Biological Age versus Chronological Age with Relation to Serum Sodium

University of Maryland, College park (Maryland)

Preceptors: Dr. Manfred Boehm, Dr. Natalia Dmitrieva

476 Grace Ge

A Computational Method to Discover Genes Associated with Elastin Fiber Production via scRNA-seq Analysis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Delong Liu, Dr. Beth Kozel

477 Miranda Guerriero

From Clot to Cough: Clues to How Platelets Contribute to Airway Disease

Lake Erie College of Osteopathic Medicine (Pennsylvania)

Preceptor: Dr. Andrew Johnson

478 Kevin Handoko

Simulation of Kinesin Binding in the Presence of Tau

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Keir Neuman, Dr. Jing Xu

479 Daniall Masood

Investigating Platelet Reactivity in Diabetic Participants of the Framingham Heart Study

Georgetown University (District of Columbia)

Preceptors: Dr. Melissa Liu, Dr. Andrew Johnson

480 Joanna Mendez-Silva

The Potential Impact of Psychosocial and Environmental Stressors on Lipid Profile in African American Women: A Pilot Study

University of Nevada-Las Vegas (Nevada)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

481 Sarah Noonan

The Potential Impact of Psychosocial and Environmental Stressors on Amino and Fatty Acids in African American Women: A Pilot Study

University of South Carolina (South Carolina)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer, Ms. Veronica Gray

482 Angelina Parrizzi

Immunoepitomic Identification of Antigens Derived from Renal Cell Carcinoma-associated Proteins

Colgate University (New York)

Preceptors: Dr. Stefan Barisic, Mr. Robert Reger, Dr. Richard Childs

483 Sana Rahman

Association between Alcohol Consumption and Liver and Kidney Function among Hispanics/Latinos: The Hispanic Community Health Study/Study of Latinos (HCHS/SOL)

Georgetown University (District of Columbia)

Preceptors: Dr. Eliseo Perez-Stable, Dr. Erik Rodriguez

484 Shalini Ramachandra

Changes in Cardiac Function and Morphology following Hematopoietic Stem Cell Transplantation for Sickle Cell Disease

American University (District of Columbia)

Preceptor: Dr. Neal Jeffries

485 Arth Sharma

Evaluating the Association of C3 Gene Variants with Venous Thrombosis in Sickle Cell Disease

Frank H. Netter M.D. School of Medicine (Connecticut)

Preceptors: Dr. Arun Shet, Dr. Bindu Gopalan

486 Justin Shi

The Role of Myosin 10 in the Migration of Dendritic Cells

University of Maryland, College Park (Maryland)

Preceptors: Dr. Anjelika Gasilina, Dr. John Hammer

[National Institute of Allergy and Infectious Diseases \(NIAID\) Posters](#)

487 Kimia Dasteh Goli

Structure and Sequence Analysis of Alpha and Beta Tryptase Variants

University of Illinois at Chicago (Illinois)

Preceptors: Dr. David Garboczi, Mr. Matthew Spencer

Preceptors: Dr. Jessica Trost, Dr. Adrian McDermott

505 Brian Xi

Sample Collection and Analysis from Potential Echinococcus multilocularis Infected Maryland Foxes

University of Maryland, College Park (Maryland)

Preceptor: Dr. Elise O'Connell

506 Christopher Xie

Investigating Key Genomic Signatures of Influenza B Infection Response Using Differential Gene Expression

University of Virginia (Virginia)

Preceptors: Dr. Allison Roder, Dr. Elodie Ghedin, Ms. Stephanie Banakis

507 Jenny Yarmovsky

Analysis and Iterative Refinement of Computational Models of IL6 Signaling

University of Maryland, College Park (Maryland)

Preceptors: Dr. Martin Meier-Schellersheim, Dr. Fengkai Zhang, Dr. Christopher Boughter

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

508 Julia Bhuiyan

Uterine Growth in Turner Syndrome: A Retrospective Comparison of Oral and Transdermal Estrogen.

Plymouth High School (Michigan)

Preceptors: Dr. Tazim Dowlut-McElroy, Dr. Roopa Kanakatti Shankar

509 Julie Bocetti

Do uORFs Effect Ded1-dependence on Translation Initiation?

Wellesley College (Massachusetts)

Preceptors: Dr. Michelle Gibbs, Dr. Fujun Zhou, Dr. Jon Lorsch

510 Abigail Burkhart

Finding New Small RNA Genes in Pseudomonas aeruginosa

South Dakota State University (South Dakota)

Preceptors: Dr. Gisela Storz, Dr. Philip Adams

511 Bei Chang

Expression of Marker Genes of Immune Cell Types in Pheochromocytoma and Paraganglioma

University of Maryland, College Park (Maryland)

Preceptors: Dr. Karel Pacak, Mr. Suman Ghosal

512 Melanie Danso

Finding New Small RNA Genes in Shewanella oneidensis
University of Maryland, College Park (Maryland)
Preceptors: Dr. Gisela Storz, Dr. Philip Adams

513 Syeda Fatima

A Prospective Evaluation of Cortisol Awakening Response for Changes in Body Composition of Children and Adolescents
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Jack Yanovski

514 Ayantu Feyissa

Zfp110 in the Maintenance of Genome Stability
Howard University (District of Columbia)
Preceptors: Dr. Melania Bruno, Dr. Todd Macfarlan

515 Austin Gable

Molecular Mechanisms underlying Traumatic Brain Injury-induced Behavioral Deficits
University of Cincinnati (Ohio)
Preceptors: Dr. Claire Le Pichon, Ms. Mor Alkaslasi

516 Julia Grafstein

Exploration of Phenotypes Related to Casq2 Deficiency
University of Maryland, College Park (Maryland)
Preceptors: Dr. Karl Pfeifer, Mr. Connor Kean

517 Matin Haghghi Ara

Development of High Throughput General User Interface for the Analysis of Low Field Data
University of Maryland, College Park (Maryland)
Preceptors: Dr. Peter Bassler, Dr. Velencia Witherspoon

518 Michelle Hajdenberg¹, Omar Gharib²

Aortic Dissection in Cushing's Syndrome
¹Washington University in St. Louis (Missouri), ²Bethesda Chevy Chase High School (Maryland)
Preceptors: Dr. Christina Tatsi, Dr. Crystal Kamilaris

519 Ameen Islaw

Loss of Irf2 Promotes Neural Degeneration in the CNS
Montgomery College (Maryland)
Preceptor: Ms. Christina Porras

520 Kaitlyn Kerr

Extracting Membrane Properties through Undulation Analysis

Bradley University (Illinois)
Preceptors: Dr. Kayla Sapp, Dr. Alexander Sodt

521 Kevin Le

Sex-specific Effects on Gene Expression in CASQ2 Mutants
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Karl Pfeifer, Mr. Connor Kean

522 Alexa Moore

Finding New Small RNA Genes in Borrelia burgdorferi
Howard University (District of Columbia)
Preceptors: Ms. Kyla Roland, Dr. Gisela Storz, Dr. Henry Levin

523 Marshall Nakatani

Analysis of Cell-type Specific Covariation of Ion Channel Expression Using Publicly Available Single-cell RNA-seq Datasets
George Washington University (District of Columbia)
Preceptors: Dr. Jonathan Murphy, Dr. Dax Hoffman, Dr. Jiahua Hu

524 Candice Nicholas

Finding New Small RNA Genes in Borrelia burgdorferi
Montgomery College (Maryland)
Preceptors: Dr. Gisela Storz, Dr. Philip Adams, Mr. Daniel Tetreault

525 Delight Nweneka

Exploring the Spatial Organization of KRAB-zinc Finger Gene Clusters
Massachusetts Institute of Technology (Massachusetts)
Preceptors: Dr. Melania Bruno, Dr. Todd Macfarlan, Ms. Ayantu Feyissa

526 Malaika Nyawara

Finding New Small RNA Genes in Shewanella oneidensis
University of Maryland, College Park (Maryland)
Preceptor: Dr. Gisela Storz

527 Katherine Ogle

Psychosocial Assessments in Male Hormonal Contraception Clinical Trial
University of Texas at Austin (Texas)
Preceptors: Dr. Diana Blithe, Dr. Min Lee, Dr. Jill Long, Ms. Frances Fernando

528 Priyanka Ravi¹, Winston Scambler²

A Pipeline for in-toto 3D Segmentation and Modelling of the Zebrafish Posterior Lateral Line Primordium

¹University of Maryland, College Park (Maryland), ²University of Oklahoma (Oklahoma)
Preceptors: Dr. Ajay Chitnis, Dr. Damian Dalle Nogare

529 Jared Redmond

Variations of the Anti-Müllerian Hormone among Populations

University of Miami (Florida)

Preceptors: Dr. Veronica Gomez-Lobo, Ms. Allison Kumnick

530 Katelyn Robertson

Expression of Glutamate Receptor Subunit Genes in Neurons Involved in PPI

Howard University (District of Columbia)

Preceptor: Dr. Harold Burgess

531 Aditya Santoki

Characterizing Motor Neurons in a Mouse Model of SPTLC1 ALS-linked Mutations

Duke University (North Carolina)

Preceptors: Dr. Claire Le Pichon, Ms. Zoe Piccus

532 Jackson Scheidhauer

Presenting Niemann-Pick Disease, Type C (NPC) Patient Data through Machine Learning

University of Maryland, College Park (Maryland)

Preceptors: Ms. Nicole Farhat, Mr. Derek Alexander, Ms. Dorothy Scordilis, Dr. Forbes Porter

533 Christine Shatrowsky

Candidate Hippocampal Pin1 Target Proteins Identified Using Known Pin1 Binding Sites in mGluR1/5 and Kv4.x Proteins

Vanderbilt University (Tennessee)

Preceptors: Dr. Dax Hoffman, Dr. Jonathan Murphy, Dr. Jiahua Hu

534 Kimberly Siguenza Depaz

Identifying and Designing Tools to Study Vascular RHOA Effectors in Zebrafish

Shenandoah University (Virginia)

Preceptors: Dr. Laura Pillay, Dr. Brant Weinstein

535 Daniel Soliman

The Search for Novel Small RNAs in the Genome of Legionella pneumophila

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Matthias Machner, Dr. Devanand Bondage

536 David Song

Identifying Small Regulatory RNAs in Photobacterium luminescens

University of Maryland, College Park (Maryland)

Preceptor: Dr. Gigi Storz

537 Timothy Stocker

Searching for Small Regulatory RNAs in Klebsiella pneumoniae

Howard University (District of Columbia)
Preceptors: Ms. Kalie Dominick, Dr. Blake Warner

545 Janet Mostrom

Characterization of Human Neural Crest Cell 3D Culture Model through Comparative Interspecies Transcriptomics

Johns Hopkins University (Maryland)
Preceptors: Dr. Surangi Perera, Dr. Laura Kerosuo

546 Christy Qian

Molecular Identification of Distinct Spinal Ascending Neurons

University of Virginia (Virginia)
Preceptors: Dr. Yuanyuan Liu, Ms. Lauren Hayashi

547 Victoria Shen

Immune Cell Repertoire in the Salivary Gland and Lacrimal Glands during Murine Chronic Graft-versus-Host Disease

Northeastern University (Massachusetts)
Preceptors: Dr. Jacqueline Mays, Dr. Ana Costa da Silva, Dr. Rubina Sharma

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

548 Seung-Ho Bae

Similarities in Dynamical Systems of Human Brain Resting States Inferred from Human Connectome Project MEG Data

Johns Hopkins University (Maryland)
Preceptor: Dr. Vipul Periwal

549 Kavisha Chandrawarakkalage

Excess Lipid Availability on the Abundance and Mitochondrial Co-localization of a Lipid Droplet Associated Isoform of O-GlcNAcase.

University of Maryland, College Park (Maryland)
Preceptors: Dr. John Hanover, Dr. Amber Lockridge

550 Eric Fields

Investigating MEPAN Syndrome and MECP-1 Function in the Nematode C. elegans

University of Maryland, College Park (Maryland)
Preceptors: Dr. Peter Kropp, Dr. Andy Golden

551 Diamond Gallimore

Renal Pathologies in Insulin Resistance Mutations

Savannah State University (Georgia)
Preceptor: Dr. Rebecca Brown

552 Hilary Ann Lakin

Erythropoietin Response Associated with Mouse Muscle Fiber
Oregon State University (Oregon)
Preceptors: Dr. Jeeyoung Lee, Dr. Connie Noguchi

553 Kelsey Lewis

An Unusual Mutation within RNA Polymerase of an Adherent Invasive E. coli Pathobiont May Contribute to Crohn's Disease Pathogenesis
Saginaw Valley State University (Michigan)
Preceptors: Dr. Debbie Hinton, Mrs. Melissa Arroyo-Mendoza

554 Anaissa Medina

Identification of Cell Types That Express Type 2 Deiodinase in the Cochlea Utilizing the Dio2-Cre Mouse Line
California State University, Stanislaus (California)
Preceptors: Dr. Douglas Forrest, Dr. Lily Ng, Dr. Ye Liu

555 Matthew Menkart

More Than Just an Emulsifier: Bile Acids, the Ligand, and the Effect Viral Infections Have on Them
Emory University (Georgia)
Preceptor: Dr. Theo Heller

556 Jenna Oringher

It's Not Chopped Liver: The Impact of Bile Acids and the Microbiome on Cirrhosis
University of Maryland, College Park (Maryland)
Preceptor: Dr. Theo Heller

557 Ellen Oskoui

Cyclic Hypercortisolism in Ectopic Cushing's Syndrome: Overcoming Diagnostic Challenges
University of Edinburgh (Scotland)
Preceptor: Dr. Lynnette Nieman

558 George Strawbridge

Assessing the Binding of alpha-Synuclein to Low-density Lipoprotein Using smFRET
Harford Community College (Maryland)
Preceptor: Dr. Sara Sohail

559 Joshua Thomas

Influence of Amyloid Beta Peptide on ApoE4 Conformation Studied by Single-molecule FRET
Montgomery College (Maryland)

Preceptor: Dr. Sara Sohail

560 Christine Thompson

Regulation of Host and Viral Genes by a Novel Viral-encoded, Putative RNA Chaperone
Cedarville University (Ohio)

Preceptors: Dr. Deborah Hinton, Dr. Bokyoung Son

561 Kunani Tuttle

Prebiotics for Mitigating Metformin Induced Gastrointestinal Side Effects in Youth with Type 2 Diabetes: A Pilot Randomized Crossover Trial

University of Utah (Utah)

Preceptors: Dr. Stephanie Chung, Ms. Samantha Matta

562 Vijay Viswanath

Cardiometabolic Risk Associations between Children and Adult Family Members in an Urban American Indian Population

Emory University (Georgia)

Preceptors: Dr. Madhumita Sinha, Dr. Elsa Vazquez Arreola

563 Jerry Yang

Structural Predictions of a Family of Tube-forming Lipid Transport Proteins

University of Maryland, College Park (Maryland)

Preceptors: Dr. William Prinz, Dr. Alexandre Toulmay

National Institute on Minority Health and Health Disparities (NIMHD)
Posters

564 Caleb Colbert

Vaccine Willingness among Rural Black, Latino, and White Adults: Results from the COVID-19's Unequal Racial Burden (CURB) Survey

University of Maryland, College Park (Maryland)

Preceptors: Dr. Anna Napoles, Dr. Paula Strassle

565 Maryam Elhabashy

Exploring the Experiences and Perceptions of Cigar Craving and Addiction among Young Adult Black Smokers

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Julia Chen-Sankey, Dr. Lilianna Phan, Dr. Kelvin Choi

566 Jacquita N. Johnson

Drilling Down on Inflammatory Disparities in the United States: Examining the Association between Sociodemographics, Socioeconomic Factors and Inflammatory Markers among Mexican-Americans

Texas A&M University (Texas)

Preceptors: Dr. Sharon Jackson, Dr. Faustine Williams, Dr. Francisco Ishino

567 Tina Liu

The Tale of Two Pandemics: Increasing Anti-Asian Racism and Xenophobia during COVID-19 and Its Effects on Mental Health among Asian American Individuals

Harvard University (Massachusetts)

Preceptors: Dr. Lilianna Phan, Dr. Julia Chen-Sankey, Dr. Kelvin Choi

568 Kwaniyah Tuffour

Validation of Mobile Sensors in a Health Behavior Project

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kelly Jones, Dr. Shannon Zenk

National Institute of Nursing Research (NINR) Poster

569 Heidi Piña

Identifying the Effects of a High Fat Diet on Motivated Behavior in Mice

University of Arizona (Arizona)

Preceptors: Dr. Paule Joseph, Dr. Hugo Tejeda, Dr. Rosario Jaime-Lara

National Center for Advancing Translational Sciences (NCATS) Lightning Talk

570 Anup Challa

Clinical Trial Emulation Can Identify New Opportunities to Enhance the Regulation of Drug Safety in Pregnancy

Vanderbilt University (Tennessee)

Preceptors: Dr. Noel Southall, Dr. Min Shen

National Eye Institute (NEI) Lightning Talks

571 Sarah Abouassali

In vivo Imaging of Fluorescently Labeled Human Photoreceptors in Carriers of Choroideremia

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Andrew Bower, Ms. Nancy Aguilera, Dr. Laryssa Huryn, Dr. Johnny Tam

572 Mariya Ahmed

Phenotype-driven Variant Prioritization for Molecular Diagnostics of Developmental Ocular Disorders

University of Maryland, College Park (Maryland)

Preceptor: Dr. Robert Hufnagel

573 Meghana Chalasani

Comparison of Automated, Manual, and Machine Learning DNA Segmentation during iPSC-derived RPE Maturation

Northeast Ohio Medical University (Ohio)

Preceptors: Dr. Kapil Bharti, Dr. Davide Ortolan, Dr. Andrei Volkov, Dr. Pushkar Sathe

574 Deshawn Ejiogu

Transcriptional Profiling of IL-35-producing Regulatory B-cells (i35 Bregs)

Walt Whitman High School (Maryland)

Preceptors: Dr. Charles Egwuagu, Dr. Evaristus Mbanefo

575 Raina Kikani

Comparing Actin Segmentation Outputs from Manual, Automated, and Machine Learning Algorithms during iPSC-RPE Maturation

Cornell University (New York)

Preceptors: Dr. Kapil Bharti, Dr. Davide Ortolan, Dr. Pushkar Sathe, Dr. Andrei Volkov

576 Jasmine Serpen

Clinical Features of Spinocerebellar Ataxia Type 7

Case Western Reserve University School of Medicine (Ohio)

Preceptor: Dr. Laryssa Huryn

National Human Genome Research Institute (NHGRI) Lightning Talks

577 Marilyn Baffoe-Bonnie

Measuring Medical Mistrust: A Multi-institutional Approach

Rutgers University (New Jersey)

Preceptor: Mr. Vence Bonham

578 Sam Christenson

Identification of a Novel Dedifferentiating Cell Population during Tail Regeneration by scRNAseq

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Shawn Burgess, Dr. Jason Sinclair

579 Jordan Connors

Subphenotypes of Sickle Cell Disease: Whole Genome Sequence Analysis of Sickle Cell Patients with Leg Ulcers

University of North Carolina at Charlotte (North Carolina)

Preceptors: Dr. Candace Middlebrooks, Dr. Joan Bailey-Wilson

580 Noah Crooks¹, Emmanuel Spanos²

Bioinformatic Diagnosis of Rare Diseases: Conversion of Cutting-edge Graph Aligner and Post-alignment Analysis Workflow to GRCh38

¹Vassar College (New York), ²Cornell University (New York)

Preceptor: Dr. Thomas Markello

581 Michelle Dwyer

Analysis of Deep Learning in Genetic Conditions: A Scoping Review

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Benjamin Solomon, Dr. Suzanna Ledgister Hanchard

582 Ava Edison

Identification of DNA Regulatory Elements Involved in Zebrafish Adult Hair Cell Regeneration

Creighton University (Nebraska)

Preceptor: Dr. Erin Jimenez

583 Sophie Hoffman

Chromosome-specific Epigenetic Profiling of Human rDNA Arrays

University of Michigan (Michigan)

Preceptor: Dr. Adam Phillippy

584 Mahin Hossain

Investigating the Presence of Hepatic Steatosis in Hermansky-Pudlak Syndrome

Ohio State University (Ohio)

Preceptors: Dr. Bernadette Gochuico, Dr. William Gahl

585 Francina Kolluri

Assessing Stroke Risk: Development of an Algorithm for the Families SHARE Nigeria Project

Paint Branch High School (Maryland)

Preceptors: Dr. Calandra Whitted, Dr. Laura Koehly

586 Vidhyanand Mahase

Comparison of Imputation Methods Using Whole Genome Sequence Data from Individuals of African Descent with Sickle Cell Disease

Howard University (District of Columbia)

Preceptors: Dr. Joan Bailey-Wilson, Dr. Candace Middlebrooks, Dr. Anthony Musolf, Dr. Deyana Lewis

587 Maureen (Molly) Merlo-Coyne

Understanding the Role of Genetic Literacy on Genetic Testing Perceptions for Autism Spectrum Disorder

Montgomery Blair High School (Maryland)

Preceptors: Ms. India Little, Dr. Chris Gunter

588 Louis Nwuha

How Medical Students' Attitudes towards a Patient in a Virtual Clinical Setting Are Impacted by the Patient's Genetic Predisposition to Obesity

Duval High School (Maryland)

Preceptors: Dr. Alison Jane Martingano, Dr. Susan Persky

589 Ijeoma Okoro

How Patient and Physician Race Impacts Medical Students' Attitudes towards Virtual Patients with Obesity

Gaithersburg High School (Maryland)

Preceptors: Dr. Alison Jane Martingano, Dr. Susan Persky

590 Taylor Robinson

Parental Caregivers' Awareness of Experimental Treatment for Children Affected by Inherited Metabolic Disorders

Emory University (Georgia)

Preceptor: Dr. Dawn Lea

National Heart, Lung, and Blood Institute (NHLBI) Lightning Talks

591 Isabel Jabara

Analysis of Clonal Hematopoiesis of Indeterminate Potential in Idiopathic Lymphocytopenia Patients

University of California, Los Angeles (California)

Preceptors: Mr. Yifan Zhou, Dr. Cynthia Dunbar

592 Christa Mahlobo

Exploring the Socioeconomic, Psychosocial, and Environmental Determinants of Health

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Foster Baah

593 Stefan Thomas

Decay Suite: Fluorescence Tools for Robust Analysis, Cross-validation, and Simulation

City College of New York (New York)

Preceptors: Dr. Jay Knutson, Mr. Greg Alspaugh

National Institute of Allergy and Infectious Diseases (NIAID) Lightning Talks

594 Adrienne Bruch

Identifying Phosphatidylserine Binding Sites in Chemokines by Sequence and Structure Analysis
University of California, Santa Barbara (California)
Preceptors: Dr. Liya Muslinkina, Dr. David Garboczi

595 Audrey Czuchna

The Role of Plexin-C1 in Lymphocyte Migration
Princeton University (New Jersey)
Preceptors: Dr. Joshua Farber, Dr. Angika Bhasym

596 Tiffany Fang

Utilizing Transcriptome Modularity to Design Targeted Panels to Capture Diverse Human Cell States with Single Cell RNAseq
Yale University (Connecticut)
Preceptors: Dr. Andrew Martins, Dr. John Tsang

597 Ailis Grieshaber

Virtual Image Analysis of Salmonella Infected Intestine
University of Idaho (Idaho)
Preceptors: Dr. Olivia Steele-Mortimer, Dr. Olof Nilsson, Dr. Audrey Chong

598 Nathaniel Higdon

Optimization of Data Analysis, Representation and Cell Line Development for Reporter Influenza Virus-based Assays
Iowa State University (Iowa)
Preceptors: Dr. Masaru Kanekiyo, Dr. Julia Lederhofer, Dr. Adrian Creanga, Dr. Barney Graham

599 Bishoy Ibrahim

Designing a CRISPR Assay to Study the Molecular Mechanism of CTCF Mutations in Neurodevelopmental Disorders
Frederick High School (Maryland)
Preceptors: Dr. Emma Price, Dr. Victor Lobanenkov

600 Harris Malik

Domain Modeling of the Major Surface Glycoprotein in Pneumocystis Using Phyre2
University of Maryland, College Park (Maryland)
Preceptors: Dr. Apostolos Gittis, Dr. David Garboczi

601 Sophia Martinez

New Insights and Challenges in WHIM Syndrome from Comprehensive Patient Phenotyping

Princeton University (New Jersey)
Preceptor: Dr. Philip Murphy

602 Ian McBain

Correlation Analysis of Patient Variables with COVID-19
New York University Abu Dhabi (United Arab Emirates)
Preceptor: Dr. Pamela Schwartzberg

603 Rebecca Oluwasanmi

Mucosal-associated Invariant T (MAIT) Cells as Vaccine Candidates
Academy Of Health Sciences @ PGCC (Maryland)
Preceptors: Ms. Sydnee Gould, Dr. Daniel Barber

604 Joanna Rodriguez

Characteristics of SHIVAD8-EO Infection in Rhesus Macaques
Colgate University (New York)
Preceptors: Dr. Joana Dias, Dr. Richard Koup

605 Jerry Shen

Development of a Pathway Enrichment and Network Analysis Workflow (to Analyze Transcriptomic Data)
University of Maryland, College Park (Maryland)
Preceptors: Ms. Samiksha Borkar, Dr. Li Yin

606 Keelee Storrud

Virtual Quantification of Salmonella Infected Epithelial Cells
Utah State University (Utah)
Preceptors: Dr. Olivia Steele-Mortimer, Dr. Olof Nilsson

607 Favan Tekle

Reviewing the Clinical Utility of Identifying CTCF Mutations in Neurodevelopmental Disorders
Wheaton High School (Maryland)
Preceptors: Dr. Emma Price, Dr. Victor Lobanenkov

608 Sara Verschleisser

Structure-based Design of Compensatory Antibody Variants for Common SARS-CoV-2 Mutants
Yeshiva University (New York)
Preceptors: Dr. Javeed Ahmad, Dr. Jiansheng Jiang, Dr. Kannan Natarajan, Dr. David Margulies

609 Elise Withers

Visualization Tools for Antibodyomics 3
Emory University (Georgia)
Preceptors: Mr. Reda Rawi, Mr. Peter Kwong

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

610 Kaitlin Abrantes

Monitoring Ca²⁺ Regulation by VDAC in Live Cells and Effects of Mitochondrial Dysfunction in Parkinson's Disease

Columbia University (New York)

Preceptors: Dr. Sergey Bezrukov, Dr. Megha Rajendran

611 Brianna Bergfalk

Effect of Synuclein-VDAC Interaction on Mitochondrial Bioenergetics in Parkinson's Disease

Montgomery Blair High School (Maryland)

Preceptors: Dr. Megha Rajendran, Dr. Sergey Bezrukov

612 Delyar Delavari¹, Faranguisse Sadrieh²

Examining the Documentation Process of Skin Lesions by Dermatologists

¹University of Maryland, College Park (Maryland), ²University of Maryland, College Park (Maryland)

Preceptors: Dr. Amir Gandjbakhche, Dr. Mehran Armand, Mr. Wei-Lun Huang

613 Omar Gharib

WITHDRAWN: *Changes in Red Blood Cells in Cushing's Syndrome*

Bethesda Chevy Chase High School (Maryland)

Preceptor: Dr. Crystal Kamilaris

614 LilyAnne Grieve

Molecular Characterization of MEHMO Syndrome Mutations

Murray State University (Kentucky)

Preceptors: Dr. Sara Young-Baird, Dr. Thomas Dever

615 Eliza Lloyd

Characterization of Neuronal Changes Associated with Spinal Cord Microgliosis in a Peripheral Nerve Injury Model

Colgate University (New York)

Preceptors: Dr. Sangeetha Hareendran, Dr. Claire Le Pichon

616 Lauren McQuaide

*Identifying Small, Regulatory RNAs (sRNAs) in *Photobacterium luminescens**

Western Kentucky University (Kentucky)

Preceptors: Dr. Gisela Storz, Dr. Nicole Ellis

617 Caleb Mertus

Analyzing Vessel Regrowth after Injury in Adult Zebrafish

Seneca Valley High School (Maryland)
Preceptors: Dr. Leah Greenspan, Dr. Brant Weinstein

618 Jessica Pierce

The Role of Dopamine in Controlling Arousal
Salisbury University (Maryland)
Preceptors: Dr. Jennifer Panlilio, Dr. Harold Burgess

619 Onajia Stubblefield

Molecular Dynamics Simulations of Lipid Tubes and Pores
University of Louisville (Kentucky)
Preceptors: Dr. Andrew Beaven, Mr. Alexander Sodt

620 Dawit Teshome

Studying the Roles of Kdm4a in Cell Regulation during Neurodevelopment
Springbrook High School (Maryland)
Preceptors: Dr. Miranda Marvel, Dr. Brant Weinstein

National Institute of Deafness and Other Communication Disorders (NIDCD) Lightning Talks

621 Andrew Wadley

Esthesioneuroblastoma in the Mouse: A Brief Overview
Howard University College of Medicine (District of Columbia)
Preceptor: Dr. Nyall London

622 Redeit Woldebirhan

Investigating Pro-survival Pathways That Prevent Drug-induced Hearing Loss
Bucknell University (Pennsylvania)
Preceptors: Dr. Lisa Cunningham, Ms. Nicole Folan, Dr. Melanie Barzik

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

623 Nanette Amihere

Analysis of Ribosome Profiling Datasets of Cellular Stress Response and Viral Infections
Charles Herbert Flowers High School (Maryland)
Preceptors: Dr. Agnes Karasik, Dr. Nicholas Guydosh

624 Jaslyn Blanco

Analyzing Gene Expression of Proteins Involved in Lipid Droplet Size within the Liver of Hsd17b13 KO Mice

Duval High School (Maryland)

Preceptors: Dr. Lila Gonzalez Hodar, Dr. Yaron Rotman

625 Vivian Cao-Dao

Cytoscape Analysis of Gene Networks Impacted by the SARS-CoV-2 Entry Inhibitor Mitoxantrone

University of Virginia (Virginia)

Preceptors: Dr. Yihong Ye, Dr. Lihui Wang

626 Stephany Castillo

The State of Food Insecurity Today

University of Massachusetts Boston (Massachusetts)

Preceptors: Dr. Marci Gluck, Dr. Tommy Cabeza De Baca

627 Sean Duane

Standard Chow Devaluation Is Contingent on High-fat Diet Composition

George Washington University (District of Columbia)

Preceptors: Dr. Amy Sutton, Dr. Michael Krashes

628 Ayse Ecer

Determining the Effects of Cellular Stress on Translation by Ribo-seq Analysis

Georgetown University (District of Columbia)

Preceptors: Dr. Sezen Meydan, Dr. Nicholas Guydosh

629 Favour Fatusin

Ethnic Differences in the Role of Free Fatty Acids Kinetics and Well-known Postabsorptive Insulin Resistance Surrogate Measures

Chesapeake Math and IT Academy North (Maryland)

Preceptors: Mr. Hubert Fan, Dr. Ranganath Muniyappa

630 Katerina Melnyk

HIRA: An Epigenetic Factor Involved in Erythropoiesis

Yale University (Connecticut)

Preceptors: Dr. Ann Dean, Dr. Khoa Tran

631 Abigail Newbury

Modeling Gene Networks with Stochastic Differential Equations

University of Virginia (Virginia)

Preceptor: Dr. Vipul Periwal

632 Bessie Turcios

Ethnic Differences in the Relationship between Free Fatty Acids Kinetics and Well-known Predictive Insulin Resistance Indices

Capital City Public Charter School (District of Columbia)

Preceptors: Ms. Grace Padgett, Dr. Ranganath Muniyappa

633 David Wu

Methods to Investigate Epigenetic Regulation of Adipogenesis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Kai Ge, Dr. Ji-Eun Lee, Ms. Susanna Maisto

634 Julie Xu

Bile Acids: A Potential Key Player in Age-associated Chronic Liver Diseases

Illinois Wesleyan University (Illinois)

Preceptors: Dr. Jake Liang, Dr. Joselyn Allen, Ms. Madeleine Leek

635 Jack Yang

Using Metadata Analysis to Identify Key Genes in Alzheimer's Disease

University of Maryland, College Park (Maryland)

Preceptor: Dr. Weiping Chen

National Institute of Nursing Research (NINR) Lightning Talk

636 Alexandra Cuc

The Bipolar Population

Vanderbilt University (Illinois)

Preceptor: Dr. Jim Holdnack