NIH VIRTUAL POSTBAC POSTER DAY 2022

APRIL 26–28, 2022

#NIHPPD22
NIH VIRTUAL POSTBACCALAUREATE POSTER DAY: APRIL 26–28, 2022

POSTER SESSION INFORMATION

Virtual Postbac Poster Day 2022 is organized into nine 90-minute poster sessions. Sessions are organized by Institutes and Centers, and each day is broken up into three sessions: 10:00 -11:30 am, 12:00 - 1:30 pm, and 2:00 - 3:30 pm.

The event will be hosted on Fourwaves: https://event.fourwaves.com/ppd-2022. All attendees must register on the Fourwaves website and then activate their account to view the poster sessions. Attendees can find information about registering for the event and participating at https://help.fourwaves.com/how-does-the-virtual-poster-session-platform-work-the-day-of-the-event.

AGENDA

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME (Eastern Time)</th>
<th>SESSION</th>
<th>INSTITUTE-CENTER</th>
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<tbody>
<tr>
<td>Tuesday, 4/26/2022</td>
<td>10:00 -11:30 am</td>
<td>Session 1</td>
<td>NIDA, NIMH (A-K), NINDS (A-C)</td>
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<td>12:00 -1:30 pm</td>
<td>Session 2</td>
<td>NIMH (L-Z), NINDS (D-X), NINR, NLM</td>
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<td>2:00 - 3:30 pm</td>
<td>Session 3</td>
<td>NEI, NIA, NIAAA</td>
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<td>Wednesday, 4/27/2022</td>
<td>10:00 -11:30 am</td>
<td>Session 4</td>
<td>NCI (A-J), NIAMS, NIDCD, NIEHS</td>
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<td>12:00 -1:30 pm</td>
<td>Session 5</td>
<td>CC, NCI (K-Q), NIBIB</td>
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<td>2:00 - 3:30 pm</td>
<td>Session 6</td>
<td>NCI (R-Z), NCI-DCEG, NICHD</td>
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<tr>
<td>Thursday, 4/28/2022</td>
<td>10:00 -11:30 am</td>
<td>Session 7</td>
<td>NCCIH, NHLBI, NIAID (A-J)</td>
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<td>12:00 -1:30 pm</td>
<td>Session 8</td>
<td>NCATS, NHGRI, NIAID (K-P), NIMHD</td>
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<td>2:00 - 3:30 pm</td>
<td>Session 9</td>
<td>NIAID (R-Z), NIDCR, NIDDK, OD</td>
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NOTE: Presenters from NIMH, NINDS, NCI, and NIAID are divided into two or three sessions (Alphabetical by Last Name)

## POSTER SESSION INFORMATION

### TUESDAY, APRIL 26, 2022

<table>
<thead>
<tr>
<th>SESSION</th>
<th>TIME (ET)</th>
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<tr>
<td>1</td>
<td>10:00-11:30 am</td>
<td>NIDA - National Institute on Drug Abuse</td>
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<td>10:00-11:30 am</td>
<td>NIMH - National Institute of Mental Health (A-K)</td>
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<td>1</td>
<td>10:00-11:30 am</td>
<td>NINDS - National Institute of Neurological Disorders and Stroke (A-C)</td>
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<td>12:00-1:30 pm</td>
<td>NIMH - National Institute of Mental Health (L-Z)</td>
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<td>2</td>
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<td>NINDS - National Institute of Neurological Disorders and Stroke (D-X)</td>
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<td>2</td>
<td>12:00-1:30 pm</td>
<td>NINR - National Institute of Nursing Research</td>
<td>202 - 208</td>
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<td>12:00-1:30 pm</td>
<td>NLM - National Library of Medicine</td>
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<td>2:00-3:30 pm</td>
<td>NEI - National Eye Institute</td>
<td>211 - 231</td>
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<td>NIA - National Institute on Aging</td>
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<td>2:00-3:30 pm</td>
<td>NIAAA - National Institute on Alcohol Abuse and Alcoholism</td>
<td>288 - 320</td>
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### WEDNESDAY, APRIL 27, 2022

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<tr>
<td>4</td>
<td>10:00-11:30 am</td>
<td>NCI - National Cancer Institute (A-J)</td>
<td>321 - 379</td>
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<td>4</td>
<td>10:00-11:30 am</td>
<td>NIAMS - National Institute of Arthritis and Musculoskeletal and Skin Diseases</td>
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<td>10:00-11:30 am</td>
<td>NIDCD - National Institute on Deafness and Other Communication Disorders</td>
<td>396 - 400</td>
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<td>10:00-11:30 am</td>
<td>NIEHS - National Institute of Environmental Health Sciences</td>
<td>401 - 418</td>
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<td>5</td>
<td>12:00-1:30 pm</td>
<td>CC - Clinical Center</td>
<td>419 - 455</td>
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<td>12:00-1:30 pm</td>
<td>NCI - National Cancer Institute (K-Q)</td>
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<td>NIBIB - National Institute of Biomedical Imaging and Bioengineering</td>
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<td>NCI - National Cancer Institute (R-Z)</td>
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<td>NCI-DCEG - National Cancer Institute - Division of Cancer Epidemiology and Genetics</td>
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<td>2:00-3:30 pm</td>
<td>NICHD - Eunice Kennedy Shriver National Institute of Child Health and Human Development</td>
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POSTER SESSION INFORMATION

THURSDAY, APRIL 28, 2022

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<td>NCCIH - National Center for Complementary and Integrative Health</td>
<td>621 - 637</td>
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<td>10:00 -11:30 am</td>
<td>NHLBI - National Heart, Lung, and Blood Institute</td>
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<td>10:00 -11:30 am</td>
<td>NIAID - National Institute of Allergy and Infectious Diseases (A-J)</td>
<td>679 - 731</td>
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<td>12:00 -1:30 pm</td>
<td>NCATS - National Center for Advancing Translational Sciences</td>
<td>732 - 747</td>
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<td>8</td>
<td>12:00 -1:30 pm</td>
<td>NHGRI - National Human Genome Research Institute</td>
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<td>12:00 -1:30 pm</td>
<td>NIAID - National Institute of Allergy and Infectious Diseases (K-P)</td>
<td>793 - 823</td>
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<td>8</td>
<td>12:00 -1:30 pm</td>
<td>NIMHD - National Institute on Minority Health and Health Disparities</td>
<td>824 - 835</td>
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<td>NIAID - National Institute of Allergy and Infectious Diseases (R-Z)</td>
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<td>NIDCR - National Institute of Dental and Craniofacial Research</td>
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<td>NIDDK - National Institute of Diabetes and Digestive and Kidney Diseases</td>
<td>893 - 934</td>
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<td>2:00 - 3:30 pm</td>
<td>OD - Office of Director</td>
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NOTES:
The COMPLETE program for Postbac Poster Day 2022 can be found at https://www.training.nih.gov/assets/2022_Postbac_Poster_Day_Program.pdf.

The event will be hosted on Fourwaves (https://event.fourwaves.com/ppd-2022/pages). You can find guidance for navigating the event here: How do participants join a virtual poster session and a conversation room.

Virtual Poster Day FAQs can be found at https://www.training.nih.gov/virtual_postbac_poster_day_faqs.
# INDEX OF PARTICIPANTS
(SUPERSSCRIPTS INDICATE AUTHOR POSITION, FIRST$^1$ VS. SECOND$^2$)

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# INDEX OF PARTICIPANTS

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INDEX OF PARTICIPANTS

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## INDEX OF PARTICIPANTS

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<td>113</td>
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<td>269</td>
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<td>32</td>
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<td>445</td>
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<td>183</td>
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INDEX OF PARTICIPANTS

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## INDEX OF PARTICIPANTS

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<td>Wang, Angela</td>
<td>149</td>
</tr>
<tr>
<td>Wang, Christiana</td>
<td>862</td>
</tr>
<tr>
<td>Wang, Tammy</td>
<td>43</td>
</tr>
<tr>
<td>Wang, Xin</td>
<td>546</td>
</tr>
<tr>
<td>Ward, Caroline</td>
<td>285</td>
</tr>
<tr>
<td>Warner, Seth</td>
<td>454</td>
</tr>
<tr>
<td>Washington, Kayden</td>
<td>44</td>
</tr>
<tr>
<td>Watowich, Matthew</td>
<td>547</td>
</tr>
<tr>
<td>Weinhold, Maximilian</td>
<td>199</td>
</tr>
</tbody>
</table>
INDEX OF PARTICIPANTS

<table>
<thead>
<tr>
<th>PRESENTER</th>
<th>POSTER #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weishampel, Zachary</td>
<td>863</td>
</tr>
<tr>
<td>Welday, Jacqueline</td>
<td>619</td>
</tr>
<tr>
<td>Weltz, Sarah</td>
<td>548</td>
</tr>
<tr>
<td>Westcott, Nina</td>
<td>315</td>
</tr>
<tr>
<td>Whiting, Kimberly</td>
<td>45</td>
</tr>
<tr>
<td>Wichmann, Emily</td>
<td>286</td>
</tr>
<tr>
<td>Wilkerson, Miciah</td>
<td>834</td>
</tr>
<tr>
<td>Willard, Rachi</td>
<td>789</td>
</tr>
<tr>
<td>Willett, Mikala</td>
<td>549</td>
</tr>
<tr>
<td>Williams, Margo</td>
<td>676</td>
</tr>
<tr>
<td>Williams, Valencia</td>
<td>356</td>
</tr>
<tr>
<td>Wilson, Elena</td>
<td>550</td>
</tr>
<tr>
<td>Wilson, Isha</td>
<td>416</td>
</tr>
<tr>
<td>Wilson, Jenna</td>
<td>150</td>
</tr>
<tr>
<td>Wilson, Joshua</td>
<td>151</td>
</tr>
<tr>
<td>Winkler, Eli</td>
<td>316</td>
</tr>
<tr>
<td>Winnicki, Elizabeth</td>
<td>790</td>
</tr>
<tr>
<td>Wisser, Stephen</td>
<td>152</td>
</tr>
<tr>
<td>Withers, Price</td>
<td>200</td>
</tr>
<tr>
<td>Wokasch, Anthony</td>
<td>551</td>
</tr>
<tr>
<td>Wolf, Kaelin</td>
<td>317</td>
</tr>
<tr>
<td>Wolfe, Kaelin</td>
<td>46</td>
</tr>
<tr>
<td>Won, Sung Joon</td>
<td>47</td>
</tr>
<tr>
<td>Woods, Taariq</td>
<td>230</td>
</tr>
<tr>
<td>Wossenseged, Faeben</td>
<td>791</td>
</tr>
<tr>
<td>Wu, Emily</td>
<td>552</td>
</tr>
<tr>
<td>Wu, Jerry</td>
<td>553</td>
</tr>
<tr>
<td>Wu, Yalan</td>
<td>554</td>
</tr>
<tr>
<td>Xia, Maya</td>
<td>318</td>
</tr>
<tr>
<td>Xie, Kathy</td>
<td>201</td>
</tr>
<tr>
<td>Xing, Xin Xin.</td>
<td>892</td>
</tr>
<tr>
<td>Yamine, Michaela</td>
<td>677</td>
</tr>
<tr>
<td>Yang, Neil</td>
<td>864</td>
</tr>
<tr>
<td>Yeboah, Josette</td>
<td>153</td>
</tr>
<tr>
<td>Yee, Danielle</td>
<td>231</td>
</tr>
<tr>
<td>Youle, Alice</td>
<td>678</td>
</tr>
<tr>
<td>Young, Micah</td>
<td>865</td>
</tr>
<tr>
<td>Youngstrom, Diane</td>
<td>417</td>
</tr>
<tr>
<td>Yu, Amy</td>
<td>455</td>
</tr>
<tr>
<td>Yu, Catherine</td>
<td>555</td>
</tr>
<tr>
<td>Zabala, Paloma</td>
<td>154</td>
</tr>
<tr>
<td>Zaibaq, Faris</td>
<td>556</td>
</tr>
<tr>
<td>Zanker, Vera</td>
<td>792</td>
</tr>
<tr>
<td>Zeher, Allison</td>
<td>557</td>
</tr>
<tr>
<td>Zeng, Wenyu</td>
<td>747</td>
</tr>
<tr>
<td>Zhan, Alec</td>
<td>866</td>
</tr>
<tr>
<td>Zhang, Wendy</td>
<td>620</td>
</tr>
<tr>
<td>Zhao, Amy</td>
<td>418</td>
</tr>
<tr>
<td>Zheng, Andrew</td>
<td>287</td>
</tr>
<tr>
<td>Zhou, Elaine</td>
<td>618</td>
</tr>
<tr>
<td>Zhu, Alexander</td>
<td>934</td>
</tr>
<tr>
<td>Ziausyte, Ugne</td>
<td>319</td>
</tr>
<tr>
<td>Zimmerman, Sydney</td>
<td>320</td>
</tr>
<tr>
<td>Zuckerman, Gabrielle</td>
<td>835</td>
</tr>
</tbody>
</table>
Tuesday, April 26, 2022
National Institute on Drug Abuse

#1. Alishan Amirali, Jacquelin Hecker
Effects of Cariprazine and Buprenorphine on Economic Choice between Remifentanil and Food in Squirrel Monkeys
Emory University (Georgia), University of Massachusetts Amherst (Massachusetts)
Preceptors: Dr. Charles Bradberry, Dr. Hank Jedema

#2. Lisette Bahena
Increasing Drug Exposure Reflects Progression of Drug-induced Changes in Orbitofrontal Cortex Function
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Thomas Stalnaker, Dr. Geoffrey Schoenbaum

#3. Reece Budinich
Repeated (S)-Ketamine Exposure Decreases Mu Opioid Receptors and Increases Heroin Self-administration
Western Washington University (Washington)
Preceptors: Dr. Michael Michaelides, Dr. Marjorie Levinstein

#4. Andy Chen
A Voltammetric Analysis of Modafinil Analogs Effects on Dopaminergic and Histaminergic Neuro-dynamics in Mice
Emory University (Georgia)
Preceptors: Dr. Gianluigi Tanda, Dr. Melinda Hersey

#5. Madeline Crozier
Glucagon-Like-Peptide-1 (GLP-1) System Is Modulated by Acute and Chronic Alcohol Exposure: Findings from Human Laboratory Experiments and a Brain Postmortem Study
University of Missouri-Columbia (Missouri)
Preceptors: Dr. Mehdi Farokhnia, Dr. Lorenzo Leggio

#6. Zachary Demko
Internet Gaming Disorder: Assessing the Proposed Criteria
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Tingting Liu

#7. Eliza Douglass
Glucocorticoid Receptor Antagonists Decrease Alcohol Drinking in Male Rats
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. M. McGinn, Dr. Leandro Vendruscolo

#8. Olivia Drake
Neurobiological Substrates Underlying Persistent Discriminative Stimulus-controlled Cocaine Seeking
Juniata College (Pennsylvania)
Preceptors: Dr. Rajtarun Madangopal, Dr. Bruce Hope

#9. Jeffrey Feldman
A Systematic Review of Clinical Case Reports Related to Kratom Use
University of Florida (Florida)
Preceptor: Dr. David Epstein

#10. Hector Figueroa-Monsanto
A new method for handling squirrel monkeys that permits social housing
University of Puerto Rico at Cayey (Puerto Rico)
Preceptor: Dr. Charles Bradberry

#11. Emma Frye
*Estrogen-related Receptor gamma as a Potential Regulator of Opioid Dependence*
Appalachian State University (North Carolina)
Preceptors: Dr. Renata Marchette, Dr. Leandro Vendruscolo

#12. Alexander Goldberg
*Conformational Preferences and Rigidities of Fentanyl and Its Analogs*
Muhlenberg College (Pennsylvania)
Preceptors: Dr. Bing Xie, Dr. Lei Shi

#13. Luis Gonzalez
*Ketone Ester and Alcohol Self-administration in Male Rats*
Johns Hopkins University (Maryland)
Preceptor: Dr. Leandro Vendruscolo

#14. Daniel Habib
*Detecting and Labeling SUD Stigma: Lived Experience Matters*
Johns Hopkins University (Maryland)
Preceptors: Dr. Brenda Curtis, Mr. Salvatore Giorgi

#15. Emma Hans
*Is Impulsive Choice a Risk Factor in the Development of Drug Abuse and Addiction? An Unexpected Finding*
Ohio State University (Ohio)
Preceptors: Dr. Hui Shen, Dr. Yihong Yang

#16. Lyndsay Hastings
*Opioid Use Disorder Pharmacological Therapies Modify Heroin Withdrawal-induced Hyperalgesia*
Duke University (North Carolina)
Preceptors: Dr. Renata Marchette, Dr. Leandro Vendruscolo

#17. Vivian Hu
*Involvement of a Nucleus Accumbens Shell to Lateral Habenula Projection in Suppression of Unproductive Reward Seeking*
University of California, Santa Barbara (California)
Preceptors: Dr. Agustin Zapata, Dr. Carl Lupica

#18. Aishwarya Jayan
*Regulation of Threat Response by Parvalbumin-expressing Neurons in the Anterior Hypothalamic Area*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Yeka Aponte, Dr. Brenton Laing

#19. Jed Kucharcz
*Multigram Synthesis of PF-6, a Metabolite of a Potential Therapeutic Agent in Alcohol Use Disorder PF-5190457*
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Agnieszka Sulima, Dr. Kenner Rice

#20. Rucha Kulkarni
*Role of PPTg to VTA Glutamatergic Projection in Conditioned Place Aversion Behavior in Mice*
University of California, Los Angeles (California)
Preceptor: Dr. Hui-ling Wang
#21. Sophia Lou  
*Comparing Small Area Composite Indices with Mortality, Health, and Well-being*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Brenda Curtis, Mr. Sal Giorgi

#22. Shelby McGriff  
*Reinforcing Effects of Fentanyl and Fentanyl Analogs Found in Illicit Drug Markets*  
University of Florida (Florida)  
Preceptors: Dr. Michael Baumann, Dr. Charles Schindler

#23. Jorge Mendoza, John Gibbons  
*Median Raphe GABAergic Neurons Regulate Reward and Compulsive Behavior*  
University of California, Irvine (California), Bucknell University (Pennsylvania)  
Preceptors: Dr. Satoshi Ikemoto, Dr. Yosuke Arima

#24. Aaron Miller  
*Sex-dependent Changes in Dopamine Metabolizing Enzymes as a Consequence of Methamphetamine Self-administration*  
California State University, Long Beach (California)  
Preceptors: Dr. Atul Daiwile, Dr. Jean Cadet

#25. Hadley Mills  
*Effect of Toll-Like Receptor 3 Antagonism on Heroin-induced Analgesia and Hyperalgesia during Withdrawal in Mice*  
University of Colorado Boulder (Colorado)  
Preceptors: Dr. Nadia Said, Leandro Vendruscolo

#26. Jash Mirani  
*An Auditory Maze for Studying Neural Correlates of State Transitions*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Kauê Costa, Dr. Geoffrey Schoenbaum

#27. Uzma Mohammad  
*Role of Afferents to the Dorsal Raphe Nucleus in Feeding Behavior and Anxiety*  
Rutgers University - New Brunswick (New Jersey)  
Preceptors: Dr. Marisela Morales, Dr. Flavia Barbano

#28. Kailin Mooney  
*An Exploration of Sex Differences in Serotonin Signaling in the Orbitofrontal Cortex*  
University of Portland (Oregon)  
Preceptors: Dr. Carl Lupica, Dr. Alex Hoffman

#29. Ceiveon Munoz  
*Increased mRNA Expression of Prodynorphin in the Hippocampus and Nucleus Accumbens of Compulsive Methamphetamine Self-administering Rats*  
Oberlin College (Ohio)  
Preceptors: Dr. Jean Lud Cadet, Dr. Jayanthi Subramaniam

#20. Rucha Kulkarni  
*Role of PPTg to VTA Glutamatergic Projection in Conditioned Place Aversion Behavior in Mice*  
University of California, Los Angeles (California)  
Preceptor: Dr. Hui-ling Wang
#32. Ryan Palaganas
*Ensemble-specific Single Nuclei RNA Sequencing to Identify the Transcriptional Signature of a Cocaine Reward Memory*
Rowan University (New Jersey)
Preceptors: Dr. Bruce Hope, Dr. Katherine Savell

#33. Diana Pham
*In vivo Labeling and Molecular Characterization of Active Neurons in the Infra-limbic Cortex Using a Photo-activatable Calcium Integrator (CaMPARi2)*
California State University, Long Beach (California)
Preceptors: Dr. Rajtarun Madangopal, Dr. Bruce Hope

#34. Claire Pince
*Initial Characterization of an Novel Ghrelin Receptor Inverse Agonist PF-05190457 and Its Metabolite on Food Intake in Rats*
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Leandro Vendruscolo, Dr. Lorenzo Leggio

#35. Salma Pont Fernandez, Marina Kheyfets
*Kava: Don't Underestimate Its Subtlety*
Rutgers University (New Jersey), Haverford College (Pennsylvania)
Preceptors: Dr. David Epstein, Dr. Kirsten Smith

#36. Micaela Porod
*Will Optogenetic Stimulation of the Orbitofrontal Cortex Restore Dopaminergic Error Signaling in Cocaine-treated Rats?*
University of Wisconsin - Oshkosh (Wisconsin)
Preceptors: Dr. Yuji Takahashi, Dr. Geoffrey Schoenbaum

#37. Jenna Sanfilippo
*Spironolactone as a Potential New Pharmacotherapy for Alcohol Use Disorder: Convergent Evidence from Rodent and Human Studies*
University of California, Santa Barbara (California)
Preceptors: Dr. Lorenzo Leggio, Dr. Leandro Vendruscolo

#38. CANCELLED: Courtney Sercander
*The Effects of Cocaine Use on Orbitofrontal-dependent Economic Choice*
Brooklyn College (New York)
Preceptors: Dr. Thomas Stalnaker, Dr. Geoffrey Schoenbaum

#39. Elise Shealy
*Difficulty Describing Feelings Is Related to Temporal-Cortical Gray Matter Volume Differently in Cocaine Users and Healthy Controls*
University of Delaware (Delaware)
Preceptors: Dr. Tianye Zhai, Dr. Yihong Yang

#40. Shohan Shetty
*The Selective D3R Antagonist VK4-116 Rescues Inflexible Behavior in Rats With a History of Cocaine Use*
Washington University in St. Louis (Missouri)
Preceptor: Dr. Marios Panayi

#41. Meng-Hua Michelle Tsai
*Characterization of the Intrinsic Efficacy of the Abused Synthetic Opioids at the mu-Opioid Receptor*
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Lei Shi, Dr. Li Chen

#42. Emilya Ventriglia
*Investigating the Distinct Pharmacodynamic Profile of Oliceridine in vivo*
University of California, San Diego (California)
Preceptor: Dr. Michael Michaelides

#43. Tammy Wang
*The Waxes and Wanes between FGF21 and Alcohol Use*
Vassar College (New York)
Preceptors: Dr. Lorenzo Lorenzo, Dr. Mehdi Farokhnia

#44. Kayden Washington
*Understanding the Behavioral Impacts of GRIN Lens Implantation on Rats Using Deep Learning Methodologies*
Northwestern University (Illinois)
Preceptors: Dr. Nicholas Beacher, Dr. Da-Ting Lin

#45. Kimberly Whiting
*Spironolactone Attenuates Opioid Self-administration in Mice*
University of Georgia (Georgia)
Preceptors: Dr. Leandro Vendruscolo, Dr. Lorenzo Leggio

#46. Clara Wolfe
*Lateral Habenula Muscarinic Receptor Regulation of Neuronal Function and Cocaine Seeking Behavior*
Oberlin College (Ohio)
Preceptors: Dr. Alex Hoffman, Dr. Carl Lupica

#47. Sung Joon Won
*Comparing the Affinity Prediction Performance of Machine Learning and Deep Learning Approaches*
College of William and Mary (Virginia)
Preceptors: Dr. Lei Shi, Dr. Kuo Hao Lee

**National Institute of Mental Health (NIMH, Posters 48-87)**

#48. Danya Adams
*Developmental Trajectory of Dorsal Stream Activation to Social Versus Visuospatial Activation Processing in Children with Williams Syndrome*
Georgetown University (District of Columbia)
Preceptor: Dr. Karen Berman

#49. Anna Agron
*Using Simultaneous fMRI and EEG to Investigate the Relationship between Repetition Suppression and Repetition Priming*
University of Oregon (Oregon)
Preceptors: Dr. Alex Martin, Dr. Adrian Gilmore

#50. Tiffany Ajumobi
*Biological Functions and Spatial Distributions of Rapidly Evolving Brain-expressed Genes in the Human Lineage*
Yale University (Connecticut)
Preceptors: Dr. Armin Raznahan, Dr. Alex Decasien
#51. Paia Amelio
*Threat-related Attention in Nuanced Approach-Avoid Conflicts: Methodology and Hypothesized Effects in Individuals with Anxiety*
Northwestern University (Illinois)
Preceptors: Dr. Rany Abend, Dr. Daniel Pine

#52. Spencer Andrews
*Do Hometown Context and Childhood Activities Predict Face Recognition Performance?*
Indiana University (Indiana)
Preceptors: Dr. John Ritchie, Dr. Shruti Japee

#53. Chase Antonacci
*Resting State fMRI in Anxiety Disorders: A Systematic Review and Meta-analysis*
University of Cambridge (Non-U.S.)
Preceptors: Dr. Andre Zugman, Dr. Daniel Pine

#54. Helena Bachmann
*Emotion and Anxiety Interact to Bias Spatial Attention*
Northwestern University (Illinois)
Preceptor: Dr. Elisha Merriam

#55. Stuti Bansal
*Characterization of the Heterogeneity of Intraparietal Cortical Anatomy in Williams Syndrome*
University of California, Berkeley (California)
Preceptors: Dr. Karen Berman, Dr. Shane Kippenhan

#56. Amanda Bardhoshi
*Ketamine Increases cAMP Signaling in Rat Brain: [11C]-(R)-Rolipram as a Biomarker of Antidepressant Action*
Loyola University Chicago (Illinois)
Preceptors: Dr. Robert Innis, Dr. Paul Parcon

#57. Alison Bashford
*Role of the Paraventricular Thalamus in Habitual Active Avoidance Behavior*
Muhlenberg College (Pennsylvania)
Preceptors: Dr. Rachel Walker, Dr. Mario Penzo

#58. Rebecca Bhik-Ghanie
*Brain-wide Coupling of Single Face Patch Neurons during Rest*
Bard College at Simon's Rock (Massachusetts)
Preceptors: Dr. David Leopold, Dr. Daniel Zaldivar

#59. Kyla Brannigan
*Examining the Processing of Facial Expression and Head Orientation in the Human Brain*
Georgia State University (Georgia)
Preceptors: Dr. Shruti Japee, Dr. Chris Baker

#60. Darcy Campbell
*Resilience and Distress in Healthcare Workers during the COVID-19 Pandemic*
Georgetown University (District of Columbia)
Preceptors: Dr. Lawrence Park, Dr. Elizabeth Ballard

#61. Madeline Carrington
*Representation of Naturalistic Food Categories in the Human Brain*
#62. Mari Chiles  
*Prefrontal Cortical Opioid Control of Emotional Processing*  
Yale University (Connecticut)  
Preceptors: Dr. Hugo Tejeda, Dr. Huikun Wang

#63. Alexander D'Amico  
*Effects of RHOA Inhibition on Soma Size and Cell Density in IPSC-derived 16P11.2 CNV-carryingG Neurons*  
University of Vermont (Vermont)  
Preceptors: Dr. Francis McMahon, Dr. Xueying Jiang

#64. Hannah Douglas  
*Amplified Cortical Neural Responses as Animals Learn to Use Novel Activity Patterns*  
Carnegie Mellon University (Pennsylvania)  
Preceptor: Dr. Bradley Akitake

#65. Taylor Drazan  
*The Pregnant Marmoset: Her Brain and Behavior*  
University of Iowa (Iowa)  
Preceptors: Dr. Yogita Chudasama, Dr. Katherine Cole

#66. Andrea E Gouvea  
*Association of DHEAS, an Indicator of Adrenarchal Development, with Brain Function during an Inhibitory Control Task in Prepubertal Children*  
Northwestern University (Illinois)  
Preceptors: Dr. Shau-Ming Wei, Dr. Karen Berman

#67. Abigail Emich  
*The Influence of Family Relationship Quality and Virtual Communication on Pandemic Loneliness in LGBTQ and Non-LGBTQ Individuals*  
University of Minnesota- Twin Cities (Minnesota)  
Preceptor: Dr. Monique Ernst

#68. Elyssa Feuer  
*Effects of Stimulus Frequency and Individualized Current Amplitude on Seizure Expression in Electroconvulsive Therapy and Magnetic Seizure Therapy*  
Hamilton College (New York)  
Preceptors: Dr. Zhi-De Deng, Dr. Sarah Lisanby

#69. Madeleine Goldberg  
*Correlation between Reward-related Brain Function and DHEAS, an Indicator of Adrenarchal Development, in Prepubertal Children*  
University of Pittsburgh (Pennsylvania)  
Preceptor: Dr. Karen Berman

#70. Austin Greene  
*Gaze Reinstatement: The Role of Eye Movements in Memory Encoding, Event Segmentation, and Recall*  
University of California, Berkeley (California)  
Preceptors: Dr. Christopher Baker, Dr. Mathias Nau
#71. Emily Guinee
*Pandemic-Related Post-traumatic Stress Symptomatology: Comparison of Post-COVID-19 Patients and Controls, Risk Factors, and Clinical Correlates*
Duke University (North Carolina)
Preceptor: Dr. Joyce Chung

#72. Hannah Gura
*Effects of Online Single Pulse Transcranial Magnetic Stimulation (TMS) on Prefrontal and Parietal Cortices in Deceptive Processing*
Muhlenberg College (Pennsylvania)
Preceptors: Dr. Bruce Luber, Dr. Sarah Lisanby

#73. Oliver Holmes
*Social Memory Effects of CA2 Oxytocin and Vasopressin Receptor Knockout in Mature Mice*
Connecticut College (Connecticut)
Preceptor: Dr. Adi Cymerblit-Sabba

#74. Micah Holness
*Denoising for 3T Multi-echo fMRI across Task Paradigms*
Xavier University of Louisiana (Louisiana)
Preceptors: Dr. Daniel Handwerker, Dr. Peter Bandettini

#75. Xinyi Hong
*Predicting Neurodevelopmental Trajectories from Longitudinal Differences in EEG Coherence*
Duke University (North Carolina)
Preceptor: Dr. Ashura Buckley

#76. CANCELLED: Katherine Hosey
*Risk and Resilience during the COVID-19 Pandemic in Anabaptist Families with Mood Disorders*
University of Virginia (Virginia)
Preceptors: Ms. Emily Besançon, Dr. Francis McMahon

#77. Madeline Jenkins
*The PDE4B Radioligand, 18F-PF974, and Its Radiometabolite Are Substrates for the Efflux Transporter in Mouse Brains*
Colgate University (New York)
Preceptors: Dr. Robert Innis, Dr. Sami Zoghbi

#78. Laura Jett
*The Anxious Voice: Characterizing Features of Speech in Anxious Youth*
University of California, Davis (California)
Preceptors: Dr. Daniel Pine, Dr. Rany Abend

#79. Madeline Kane
*The Role of ETHRB Neurons in Drosophila Eclosion*
Indiana University (Indiana)
Preceptor: Dr. Benjamin White

#80. Fariha Kazi
*Developmental Trajectories of Aversive and Non-aversive Face Processing in Children with William’s syndrome*
Emory University (Georgia)
Preceptor: Dr. Karen Berman
#81. Bruny Kenou  
*Evaluation of PDE4D Specific Radioligand Candidates in Monkey with PET Imaging*  
Duke University (North Carolina)  
Preceptor: Dr. Shiyu Tang

#82. Isbah Khan  
*Characterizing the Role of Thalamo-Striatal Circuitry in Motivational Drive*  
Montana State University (Montana)  
Preceptors: Dr. Sofia Beas-Parodi, Dr. Mario Penzo

#83. Dowon Kim  
*Molecular Differences of Von Economo Neurons in the Dorsolateral Prefrontal Cortex and Subgenual Anterior Cingulate Cortex*  
Brown University (Rhode Island)  
Preceptor: Dr. Stefano Marenco

#84. Olivia Kline  
*Developmental Trajectories of Generalized Anxiety Disorder Symptoms and Amygdala Volume in 7q11.23 Copy Number Variations*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Karen Berman

#85. Carson Knoer  
*Novel PET Ligand PF974 Can Measure in vivo LPS Induced Activation of PDE4B in Rat Brain*  
Northwestern University (Illinois)  
Preceptors: Dr. Paul Parcon, Dr. Robert Innis

#86. Alexandra Koller  
*A Rare Amnesic Syndrome Due to Bilateral Focal Hippocampal Lesions in a Patient with Secondary CNS Lymphoma: A Case Report*  
New York University (New York)  
Preceptor: Dr. Joseph Snow

#87. Rohini Kumar  
*Temporal Decoding of Facial Expression and Facial Identity from Magnetoencephalography*  
Rice University (Texas)  
Preceptors: Dr. Shruti Japee, Dr. Chris Baker

National Institute of Neurological Disorders and Stroke (NINDS, Posters 88-105)

#88. Nicole Acquaye  
*An Assessment of Speech and Swallowing Function in Individuals With Giant Axonal Neuropathy*  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Diana Bharucha-Goebel

#89. Afuh Adeck  
*Morphometric Analysis of Astrocytes in Mice Engineered to Express Human GNPTAB Stuttering Mutation*  
Towson University (Maryland)  
Preceptor: Dr. Shahriar SheikhBahaei
# #90. Chloe Aloimonos
**GSK3 Inhibition during Early Postnatal Development Alters Working Memory-related Behavior in a Sex-biased Manner in a Mouse Model of 22q11.2 Deletion Syndrome**
University of Maryland, College Park (Maryland)
Preceptors: Dr. Johannes Passecker, Dr. Joshua Gordon

# #91. Emily Anderson
**An RNA Interference (RNAi) Screen for Neuroprotection of Dopaminergic Neurons in Caenorhabditis elegans Models of Parkinson’s Disease**
University of Minnesota - Twin Cities (Minnesota)
Preceptors: Dr. David Sibley, Dr. Emmanuel Akano

# #92. Carl Ash
**A LRRK2 Kinase Inhibitor Screen against Parkinson’s Disease-associated Caenorhabditis elegans Mutants**
DePauw University (Indiana)
Preceptors: Dr. David Sibley, Dr. Emmanuel Akano

# #93. Abigail Atkinson
**Androgen Receptor Mediated Regulation of Human Endogenous Retrovirus K in the Brain**
Brown University (Rhode Island)
Preceptors: Dr. Avindra Nath, Dr. Tara Doucet-O'Hare

# #94. Molly Baumhauer
**Memory Reinstatement of Neural Trajectories**
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Kareem Zaghloul

# #95. Shyama Bhatt
**Cortisol and Acth Dynamics at Time of Extubation after Transsphenoida**
Wayne State University (Michigan)
Preceptor: Dr. Prashant Chittiboina

# #96. Noelia Boldizsar
**GPCR Kinases Regulate D2 Dopamine Receptor Interactions with Beta-arrestin in an Isoform Specific Manner and in the Absence of Direct Receptor Phosphorylation**
Duke University (North Carolina)
Preceptors: Dr. David Sibley, Dr. R Benjamin Free

# #97. Alexis Brake
**Microglial Diversity in an Inside-Out Model of Multiple Sclerosis**
University of Florida (Florida)
Preceptors: Dr. Daniel Reich, Dr. Jing-Ping Lin

# #98. Kendyl Bree
**Estimating Relaxivities of Various Contrast Agents at Ultra Low Field**
Duke University (North Carolina)
Preceptor: Dr. Govind Nair

# #99. Sam Brill-Weil
**Picrotoxin Blocks Nicotinic Receptors on Striatal Dopamine Neuron Terminals**
Bowdoin College (Maine)
Preceptors: Dr. Zayd Khaliq, Dr. Paul Kramer
#100. CANCELLED: Sakar Budhathoki
*Glial Activation and Cholinergic Decline in Alzheimer's Disease*
University of Virginia (Virginia)
Preceptors: Dr. Lorna Role, Dr. David Talmage

#101. Ryan Carney
*Neuronal Hyperexcitability Promotes Inflammation and Mitochondrial Stress*
Johns Hopkins University (Maryland)
Preceptor: Dr. Kareem Zaghloul

#102. Joseph Cesare,
*Neuregulin 1 Regulates Local Axonal Synthesis of the Alpha-7 Nicotinic Acetylcholine Receptor Expression in Hippocampal Neurons*
University of Wisconsin-Madison (Wisconsin)
Preceptors: Dr. David Talmage, Dr. Lorna Role

#103. Awele Chukwura
*Part 1: Histopathological Approaches to Expanding the Scope of Post-mortem Tissue Analysis Methods in Progressive Multifocal Leukoencephalopathy*
Tufts University (Massachusetts)
Preceptor: Dr. Irene Cortese

#104. Thomas Clarity
*In vivo Plasticity between Ventral Hippocampal Inputs and Medial Prefrontal Cortex Microcircuits in a Mouse Model of 22q11.2 Deletion Syndrome*
University of Tennessee-Knoxville (Tennessee)
Preceptors: Dr. Joshua Gordon, Dr. David Kupferschmidt

#105. Sydney Corey
*Part 2: Molecular Approaches to Expanding the Scope of Post-mortem Tissue Analysis Methods in Progressive Multifocal Leukoencephalopathy*
Vanderbilt University (Tennessee)
Preceptor: Dr. Irene Cortese

**National Institute of Mental Health (NIMH, Posters 106-154)**

#106. Madison Lotstein
*Analyzing Blood Brain Barrier Involvement in Major Depressive Disorder Using Neurovascular Cell Enrichment and Single Nucleus RNA Sequencing*
Middlebury College (Vermont)
Preceptor: Dr. Miles Herkenham

#107. Ryesa Mansoor
*Optimizing NIH-specific Processing Pipelines in High Resolution fMRI Data*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Andrew Morgan, Dr. Peter Bandettini

#108. Patrick Markwalter
*Influence of Target Object Shape on Visual Search Behavior*
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Christopher Baker, Dr. David Leopold
#109. Maya Mastronardo  
*Generation and Characterization of Sex Chromosome Aneuploidy iPSC Lines*  
Towson University (Maryland)  
Preceptors: Dr. Armin Raznahan, Dr. Aleksandra Dakic

#110. CANCELLED: Jennifer Meigs  
*The Initial Validation of RATE-IT, a Novel Mobile Ecological Momentary Assessment Application to Probe Irritability*  
Loyola University Maryland (Maryland)  
Preceptors: Dr. Melissa Brotman, Dr. Reut Naim

#111. Gabrielle Michel  
*Contrasting the ‘Williams Syndrome Cognitive Profile’ in an Individual Who Has a Rare GTF2I Variant with Those Who Have Williams Syndrome, 7q11.23 Duplication Syndrome, and Healthy Volunteers*  
American University (District of Columbia)  
Preceptors: Dr. Dwight Dickinson, Dr. Karen Berman

#112. Vanessa Morgan  
*Timescales of Individual Neurons in the Prefrontal Cortex of Rhesus Macaques during a Reversal Learning Task*  
Hartwick College (New York)  
Preceptor: Dr. Bruno Averbeck

#113. Maxime Munyeshyaka  
*Modelling Irritability-like Behavior in Mice and Search for Underlying Neural Circuits and Mechanisms*  
Carleton College (Minnesota)  
Preceptor: Dr. Aijaz Naik

#114. Oriana Myers  
*Developmental Trajectory of White Matter Integrity of Corpus Callosum in Williams Syndrome and 7q11.23 Duplication Syndrome*  
University of Missouri-Columbia (Missouri)  
Preceptors: Mrs. Tiffany Nash, Dr. Karen Berman

#115. Philip Newsome  
*Assessing Threat Learning in Anxiety as Induced Uncertain-threat States*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Rany Abend

#116. Elena Ock  
*Exogenous and Endogenous Attention Differentially Engage Cortical Feedback*  
McGill University (Non-U.S.)  
Preceptor: Dr. Elisha Merriam

#117. Jesse Oler  
*DRD2 Schizophrenia Risk Variant and Medication Response Variability in People with Schizophrenia*  
Vanderbilt University (Illinois)  
Preceptors: Dr. Karen Berman, Dr. Daniel Eisenberg

#118. Urmi Pandya  
*Ecological Momentary Assessment during Exposure-based Cognitive Behavioral Therapy Shows Decrease in Pediatric Irritability Symptoms*  
Duke University (North Carolina)  
Preceptors: Dr. Reut Naim, Dr. Ramaris German
#119. Janis Park
*The Role of the Anterior Cingulate Cortex in Social Stimulus Preference in Rhesus Monkeys*
Georgetown University (District of Columbia)
Preceptor: Dr. Elisabeth Murray

#120. Maya Paulson
*Assessing Learning Induced Changes in the Striatum with Single-cell Deep Brain Imaging Techniques*
University of Colorado Boulder (Colorado)
Preceptors: Dr. Mark Histed, Dr. Jonathan O’Rawe

#121. Anna Pearson
*Shank3-deficient Rats Show Normal Cognitive and Emotional Behaviors*
DePauw University (Indiana)
Preceptors: Ms. Taylor Drazan, Dr. Sean Bradley

#122. CANCELLED: Stephanie Pham
*How Do Subcomponents of Executive Functioning Relate to Internalizing and Externalizing Behaviors in Williams Syndrome?*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Audrey Thurm, Dr. Cristan Farmer

#123. Christina Recto
*Effects of Adrenarche and Sex on Neural Function during Perception of Faces in Prepubertal Children*
University of Pennsylvania (Pennsylvania)
Preceptor: Dr. Karen Berman

#124. Beth Rispoli
*Giving Nonsense Meaning: The Influence of Real-world Experience on the Representation of Multidimensional Novel “nonsense objects”*
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Chris Baker, Dr. Susan Wardle

#125. Pei Robins
*Comparison of Coil Localization Approaches and Induced Electric Fields in Depressed Adolescents Receiving Repetitive Transcranial Magnetic Stimulation*
Lawrence University (Wisconsin)
Preceptor: Dr. Zhi-De Deng

#126. Cary Robinson Jr.
*Behavioral Dissection of Goals and Action Sequences*
Howard University (District of Columbia)
Preceptors: Dr. Bruno Averbeck, Dr. Siyu Wang

#127. Will Robison
*Experimental Design of Longitudinal Recording from Multiple Face Patches*
University of Massachusetts, Amherst (Massachusetts)
Preceptor: Dr. David Leopold

#128. Leonardo Salhani
*Inducible CRISPRi Mediated Transcriptional Suppression of Cholinergic Signaling in Old World Monkeys*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Walter Lerchner
#129. Lukas Schaffer
*Psychiatric and Behavioral Features Associated with Sex Chromosome Aneuploidy: A Comparison of XXY and XYY Syndromes*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Armin Raznahan, Dr. Srishti Rau

#130. Brooke Scheinberg
*Utilizing Rest and Threat Similarities to Predict CBT Response: An Investigation Into Neurobiological Markers of Pediatric Anxiety*
Duke University (North Carolina)
Preceptor: Dr. Julia Linke

#131. Carolyn Senneca
*Fiber Photometry for Understanding the Activity of Galanin Receptor 1 Expressing Neurons*
Colgate University (New York)
Preceptors: Dr. Yogita Chudasama, Dr. Fany Messanvi

#132. Shrey Shah
*Exome-wide Association Study of Treatment-resistant Depression*
College of New Jersey (New Jersey)
Preceptors: Dr. Nirmala Akula, Dr. Heejong Sung

#133. Jiayu Shao
*Decoupling of Hemispheres in Cortical Language Regions Correlates with Language Deficits in Autism*
Johns Hopkins University (Maryland)
Preceptors: Dr. Andrew Persichetti, Dr. Alex Martin

#134. Jacob Shaw
*How to Define COVID-19 Related Neurocognitive Impairment? Comparison of Performance in Three Cognitive Domains between COVID-19 Patients and Controls*
Stanford University (California)
Preceptor: Dr. Joyce Chung

#135. Olivia Siegal
*Inhibitory Control as a Moderator of the Relationship between Repetitive Negative Thinking and Anxiety*
Wesleyan University (Connecticut)
Preceptors: Dr. Elise Cardinale, Dr. Daniel Pine

#136. Ilyssa Silverman
*Season of Birth as a Proxy for Environmental and Perinatal Influences on Schizophrenia Symptom Profiles*
Tufts University (Massachusetts)
Preceptor: Dr. Dwight Dickinson

#137. Maya Smith
*Silencing of Unilateral Striatum Increases Compulsivity in Rhesus Monkeys*
Swarthmore College (Pennsylvania)
Preceptor: Dr. Mark Eldridge

#138. Megan Spurney
*Content and Form of Conscious Thoughts Modulate Functional Connectivity during Resting-state*
Cornell University (New York)
#139. Michelle Sung
*Rostro-Caudal Patterning of Erk Activation in Nucleus Accumbens by D1 Agonists and Psychomotor Stimulants*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Lee Eiden, Dr. Wenqin Xu

#140. Jeremy Taigman
*The Effect of Body Dysmorphia Symptoms on Mood and Anxiety Trajectories in Depressed Adolescents*
University of Michigan (Michigan)
Preceptors: Dr. Argyris Stringaris, Dr. Daniel Pine

#141. Olufunmilayo Telli
*The Childhood Opportunity Index: A Potential Tool for Assessing Neighborhood Opportunity and Its Effects on Childhood Mental Health Outcomes*
University of Maryland, Baltimore County (Maryland)
Preceptors: Mrs. Elise Cardinale, Dr. Ellen Leibenluft

#142. Martina Thurman
*The Visual Thalamus Modulates Light-driven Resynchronization of the Biological Clock and Pupil Constriction*
Northwestern University (Illinois)
Preceptors: Dr. Samer Hattar, Dr. Corinne Beier

#143. Zachary Trevorrow
*Structural Alterations in White Matter Associated with 7q11.23 Copy Number Variation*
Tufts University (Massachusetts)
Preceptors: Dr. Shane Kippenhan, Dr. Karen Berman

#144. Carleigh Turner
*Apopomphine Induces Risky Behavior in Rats*
The Chicago School of Professional Psychology (Illinois)
Preceptor: Dr. Yogita Chudasama

#145. Caroline Ugoaru
*Modeling a Humanized ACE2*
Howard University (District of Columbia)
Preceptors: Dr. Bala Susarla, Dr. James Pickel

#146. Maia Van Buskirk
*Investigating Neuroinflammation in Major Depressive Disorder through PET imaging of Cyclooxygenases*
Colgate University (New York)
Preceptor: Dr. Robert Innis

#147. Abigail Vogeley
*Childhood Maltreatment as a Predictor of Treatment Refractoriness in Treatment Resistant Depression*
Wake Forest University (North Carolina)
Preceptors: Dr. Lawrence Park, Dr. Carlos Zarate

#148. Nina Wallace
*Agreement among Standardized Measures of Language Ability in Toddlers With and Without Language Delay*
Howard University (District of Columbia)
Preceptors: Dr. Cristan Farmer, Dr. Audrey Thurm
#149. Angela Wang
*Investigating the Neurophysiology of Healthy Volunteers in an Emotional Face Matching Task Using MEG Beamforming*
University of California, Los Angeles (California)
Preceptor: Dr. Allison Nugent

#150. Jenna Wilson
*Elaborating on the Role of the Hippocampus in Constructing Remote Autobiographical Memories*
University of St Andrews (Non-U.S.)
Preceptors: Dr. Sam Audrain, Dr. Alex Martin

#151. Joshua Wilson
*Investigating the Purpose of Striatal Projections from the Primary Visual Cortex in Mice with a Simple Visual Stimulus*
American University (District of Columbia)
Preceptors: Dr. Jonathan O’Rawe, Dr. Mark Histed

#152. Stephen Wisser
*Whole Brain cFos Expression following Nociceptive Stimuli in Female Mice*
Hamilton College (New York)
Preceptors: Dr. Ted Usdin, Dr. Sarah Williams

#153. Josette Yeboah
*Neuropsychological Assessments of Working Memory in Women Transitioning through Menopause*
Lafayette College (Pennsylvania)
Preceptors: Dr. Katherine Cole, Dr. Peter Schmidt

#154. Paloma Zabala
*Pilot Study Assessing Suicide Risk Using a Novel Suicide Dot-probe Task*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Elizabeth Ballard

#413. Olivia Peterson: MOVED FROM NIEHS
*Cognitive Rigidity: Examining Emotional, Behavioral, and Neural Responses during a Frustration Task*
Middlebury College (Vermont)
Preceptors: Dr. Ellen Leibenluft, Dr. Julia Linke, Dr. Jung Kim

**National Institute of Neurological Disorders and Stroke (NINDS, Posters 155-201)**

#155. Mahalia Dalmage
*Exploring the Role of Tricellular Junctional Disruption to Enhance Blood-Brain Barrier Permeability in Rat Glioma Models*
Dartmouth College (New Hampshire)
Preceptor: Dr. Sadhana Jackson

#156. Thomas DeLong
*Electrophysiological Characterization of Giant Axonal Neuropathy*
University of Missouri Columbia (Missouri)
Preceptor: Dr. Diana Bharucha-Goebel

#157. Henry Dieckhaus
*Deep Learning Enables Segmentation of 7T MRI Using Only MP2RAGE Images in Multiple Sclerosis*
Boston College (Massachusetts)
Preceptor: Dr. Govind Nair
#158. Devon Dietrich
*Defining HIV-associated Phenotypes with MRI Clustering*
Duke University (North Carolina)
Preceptors: Dr. Bryan Smith, Dr. Avindra Nath

#159. Olivia Emanuel
*The Role of Prior Traumatic Brain Injury in Current Injury Outcome*
Washington University in St. Louis (Missouri)
Preceptors: Dr. L. Turtzo, Dr. Lawrence Latour

#160. Jill Flannery
*Birthdating Two Distinct Subpopulations of GnRH Cells in Mouse Embryos*
Grinnell College (Iowa)
Preceptor: Dr. Susan Wray

#161. Rameen Forghani
*Actin Polymerase Enabled Primarily Controls Filopodial Morphology in the Drosophila TSM1 Pioneer Axon*
University of Georgia (Georgia)
Preceptor: Dr. Edward Giniger

#162. Sweta Ghatti
*Shape Analysis and Its Potential to Understand Disease Trajectory in Parkinson’s Disease*
Vanderbilt University (Tennessee)
Preceptors: Dr. Silvina Horovitz, Dr. Debra Ehrlich

#163. Alexandra Gilsrud
*Determining Parkinson's Disease Causing Variants in PRKN Using a Pooled FACS-based Screen*
Western Washington University (Washington)
Preceptor: Dr. Derek Narendra

#164. Anna Grigsby-Brown
*De novo Synthesis of Cholesterol in the Drosophila Brain*
Georgetown University (District of Columbia)
Preceptors: Dr. Jun Yin, Dr. Quan Yuan

#165. Lauren Hinkley
*Retrospective Early Natural History of LAMA2-related Dystrophies*
Stanford University (California)
Preceptor: Dr. A. Reghan Foley

#166. Isabelle Hua
*Quantitative Behavioral Analysis of Jumping in Mice*
University of Washington (Washington)
Preceptor: Dr. Ariel Levine

#167. Brian Johnson
*Characterizing the Molecular Features of Disease in Amyotrophic Lateral Sclerosis Type 4*
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Christopher Grunseich, Dr. Kenneth Fischbeck

#168. Akash Kapoor
*Developing Techniques for Understanding Cortico-Cerebellar Circuits in Skill Learning Paradigms*
#169. Alexandrea Kilgore-Gomez
*An Investigation of REM Duration and REM Latency in Epilepsy Patients: A Spectrogram-based Evaluation of Sleep Architecture*
University of Nevada, Reno (Nevada)
Preceptor: Dr. Shareena Rahman

#170. Eugene Kim
*Electrophysiology in the Lumbar Spinal Cord of Awake Behaving Mice*
Cornell University (New York)
Preceptors: Dr. Jerry Mekdara, Dr. Ariel Levine

#171. Vani Kumar
*Tracking Neurodegeneration in the Visual and Motor Pathways of Subjects with Spinocerebellar Ataxia Type 7*
Johns Hopkins University (Maryland)
Preceptor: Dr. Silvina Horovitz

#172. Divya Kunda
*Isolating Transcriptional and Epigenetic Markers of a Rare Population of Primed Neural Stem Cells in the Regenerating Olfactory Epithelium*
University of Washington, Seattle (Washington)
Preceptors: Dr. Whitney Heavner, Dr. John Ngai

#173. Niki Lam
*Exploring the Effect of Region Size on Seed-based Functional Correlations*
State University of New York at Geneseo (New York)
Preceptor: Dr. Dante Picchioni

#174. Nora Madaras
*Structure–Activity Relationships of a Negative Allosteric Modulator of the D3 Dopamine Receptor and Investigation of Its Binding Site*
Emory University (Georgia)
Preceptors: Dr. Amy Moritz, Dr. David Sibley

#175. Eleanor McCall
*Performance in a Whisking Object Localization Task after Unilateral Whisker Denervation*
Davidson College (North Carolina)
Preceptors: Dr. Emily Petrus, Dr. Alan Koretsky

#176. Marissa Millwater
*Disrupted Iron Homeostasis in Basal Ganglia as Implicated in Stuttering*
University of California, Santa Barbara (California)
Preceptor: Dr. Shahriar SheikhBahaei

#177. Elyse Moore
*Anterior Pituitary Organoid Generation from Human Induced Pluripotent Stem Cells*
Virginia Tech (Virginia)
Preceptors: Dr. Prashant Chittiboina, - Asuzu

#178. William Mullins
*Cortical Lesion Burden Is Associated with Worsening Disability over Time and Conversion to Progressive MS*
#179. Joseph Nowacki
*Mb* mRNA Transport and Local Translation Are Crucial for Adult Myelination
Vassar College (New York)
Preceptor: Dr. Meng-meng Fu

#180. Axel Ntamatungiro
Closed-loop Optogenetic Stimulation Effects on Hippocampal-Prefrontal Communication and Spatial Working Memory
Rice University (Texas)
Preceptors: Dr. Maxym Myroshnychenko, Dr. David Kupferschmidt, Dr. Joshua Gordon

#181. Derrick Okine
Association between Cerebral Small Vessel Disease, Blood Brain Barrier Leakage, and Outcome after Stroke
Grinnell College (Iowa)
Preceptor: Dr. Rebecca Gottesman

#182. Naiya Osiyemi
Examining How Transcranial Magnetic Stimulation Could Be Used to Moderate the Effects of Acute Stress on Episodic Memory
George Washington University (District of Columbia)
Preceptors: Dr. Kristen Warren, Dr. Eric Wassermann

#183. Jessica Palmeri
AAV Mediated in vivo Gene Therapy for LDB3-associated Myofibrillar Myopathy
State University of New York at Geneseo (New York)
Preceptors: Dr. Pankaj Pathak, Dr. Carsten Bonnemann

#184. Hannah Pearlstein
Chemical Optimization of the D1 Dopamine Receptor-selective Positive Allosteric Modulator, MLS6585, Identifies Lead Compounds for the Treatment of Neuropsychiatric Disorders.
University of Michigan (Michigan)
Preceptors: Dr. David Sibley, Dr. Ashley Nilson

#185. Audrey Phan
Reinstatement of Dynamic Neural Connectivity Patterns during Episodic Memory Retrieval
University of California, Berkeley (California)
Preceptors: Dr. Weizhen Xie, Dr. Kareem Zaghloul

#186. Mia Railing
Altered Prefrontal-Thalamo-Hippocampal Circuit Function during a Spatial Working Memory Task in in SETD1A-deficient Mice
Michigan State University (Michigan)
Preceptors: Dr. Sofiya Hupalo, Dr. Joshua Gordon

#187. Gautam Ramanathan
Potential EEG Markers for Internally and Externally Oriented Attention
Washington University in St. Louis (Missouri)
Preceptors: Dr. Kristen Warren, Dr. Eric Wassermann

#188. Jessica Rana
Investigating Dimerization Interface of Human Serotonin Transporter via Molecular Simulations
#189. Hunter Richardson
*Tubulin Polymerization Promoting Protein Aggregation in the Neurodegenerative Disease Multiple Systems Atrophy*
Johns Hopkins University (Maryland)
Preceptors: Dr. Vanessa Leone, Dr. Lucy Forrest

#190. Sarah Rivas
*PRMT5 Inhibition Sensitizes Glioblastoma Neurospheres to Temozolomide*
Massachusetts Institute of Technology (Massachusetts)
Preceptor: Dr. Meng-meng Fu

#191. Mohammed Saqib
*Multidataset/Multiscanner MRI and fMRI to Evaluate PD Clinical Biomarkers and Classifiers*
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Silvina Horovitz, Dr. Mark Hallett

#192. Kaya Scheman
*Identifying the Underpinnings of Volitional Control through Event-related Microstate Analysis of Seen and Unseen Stimuli*
Duke University (North Carolina)
Preceptors: Dr. Mark Hallett, Dr. Antonio Triggiani

#193. Megan Springer
*Targeting of Primary Cilia in Patient-derived Glioblastoma Cells Alters the Global Transcriptome*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Desmond Brown

#194. Amelia Stapleton
*Interhemispheric Asymmetry Is a Biomarker of Attentional Performance*
Smith College (Massachusetts)
Preceptors: Dr. Selene Schintu, Dr. Eric Wassermann

#195. Stephanie Tam
*Role of Cytoplasmic Cap in Determining Ion Selectivity in P2X Receptor Channels*
American University (District of Columbia)
Preceptors: Dr. Kenton Swartz, Dr. Mufeng Li

#196. Miranda Tompkins
*O-Linked Beta-N-Acetylglucosamine Transferase: Implications in GnRH Neuronal Migration*
Colgate University (New York)
Preceptor: Dr. Susan Wray

#197. Lindsey Trank
*Development of Conjugated siRNAs for Allele-specific Silencing of a Dominant Col6a3 Pathogenic Variant in Mouse Cultured Cells*
Ohio State University (Ohio)
Preceptors: Dr. Astrid Brull, Dr. Véronique Bolduc

#198. Courtney Vetter
*Factors Contributing to Reports of Cognitive Impairment after SARS-CoV-2 Infection*
University of Virginia (Virginia)
Preceptors: Dr. Brian Walitt, Dr. Avindra Nath
#199. Maximilian Weinhold
Behavioral Defects in Mice Engineered with Human GNPTAB Stuttering Mutations: Hyperactivity, Initiations, and Interruptions
College of William and Mary (Virginia)
Preceptor: Dr. Shahriar SheikhBahaei

#200. Price Withers
Source Localization of iEEG Interictal Epileptiform Activity Using Estimates of Gray and White Matter Propagation
Vanderbilt University (Tennessee)
Preceptor: Dr. Sara Inati

#201. Kathy Xie
Association of Spousal Separation and Widowhood with Incident Dementia: The Atherosclerosis Risk in Communities (ARIC) Neurocognitive Study
University of Oxford (Non-U.S.)
Preceptor: Dr. Rebecca Gottesman

National Institute of Nursing Research (NINR)

#202. Hannah Allen, Isaias Torres
Biomarkers of Inflammation in Caregivers: Does Alcohol Use Mediate the Impact of Caregiving Stress?
University of Pittsburgh (Pennsylvania), California State University, San Marcos (California)
Preceptors: Dr. Laura Koehly, Dr. Jielu Lin

#203. Allyson Ferguson
The Relationship between Social Determinants of Health and Age at First Diagnosis of an Eating Disorder
University of Alabama at Birmingham (Alabama)
Preceptor: Dr. Patricia Flatley Brennan

#204. Sara Flash
Using Footfall and Navigation Patterns to Characterize Exploration in an Immersive Virtual Reality Grocery Store
Muhlenberg College (Pennsylvania)
Preceptors: Dr. Patricia Flatley Brennan, - Denise Goldsmith

#205. Kayla Keane
Investigating the Impact of COVID-19 on School Meals: A Mixed-methods Phenomenology of Rural, Suburban, and Urban Nutrition Directors
University of Michigan (Michigan)
Preceptor: Dr. Letitia Graves

#206. Willa Riekhof
Comparing Plasma Levels of Oxidative Stress Biomarkers in RYR1-related Disease Patients and Healthy Individuals
University of Chicago (Illinois)
Preceptor: Dr. Tokunbor Lawal

#207. Ethan Smith
The Relationship between PTSD Symptoms and Plasma Inflammatory Proteins in Military Service Members and Veterans with Traumatic Brain Injury
University of Toronto (Non-U.S.)
Preceptor: Dr. Jessica Gill
#208. Isaias Torres, Hannah Allen
Caregiving Burden, Alcohol Use and Depression: Do Parents Drink to Cope?
California State University, San Marcos (Maryland), Pittsburgh University (Pennsylvania)
Preceptors: Dr. Laura Koehly, Dr. Jielu Lin

National Library of Medicine (NLM)

#209. Kush Attal
Automatic Distractor Generation for Cloze Tasks
Washington and Lee University (Virginia)
Preceptors: Dr. Brian Ondov, Dr. Dina Demner-Fushman

#210. Daniel Clark
Detecting Damage: A New Pathway for Bacterial Immunity
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Aravind Iyer

National Eye Institute (NEI)

#211. Shriya Awasthi
Color and Shape Learning in Macaques Modeled Using a Reinforcement-learning Framework
Johns Hopkins University (Maryland)
Preceptor: Dr. Bevil Conway

#212. Daniel Brock
Nrf2 Knockout Mice Exhibit High Glycemic Diet Associated Transcriptomic Alterations in the Retina
University of Washington (Washington)
Preceptors: Dr. Anand Swaroop, Dr. Anupam Mondal

#213. Daily Dannika
Increased Blood Vessel Growth in a New Model for Age-related Macular Degeneration
Georgetown University (District of Columbia)
Preceptors: Dr. Jianguo Fan, Dr. Graeme Wistow

#214. Joys Annika G. David
Human Endogenous Retroviruses Mediate the Complement Response in iPSC-RPE Atrophy
Pepperdine University (California)
Preceptors: Dr. Kapil Bharti, Dr. Congxiao Zhang

#215. Zander Esh
Cellular Transformation and Polarization in Differentiating iPSC-derived Retinal Pigment Epithelium
Montana State University (Montana)
Preceptor: Dr. Ruchi Sharma

#216. Carly Feldman
Generating and Characterizing iPSC-RPE Cells for Studying Disease Mechanisms in Peroxisomal Biogenesis Disorders
Washington University in St. Louis (Missouri)
Preceptors: Dr. Matthew Benson, Dr. Robert Hufnagel, Dr. Temesgen Fufa
#217. Taylor Flaherty
*Quantitative Analysis of the Foveal Contour in Williams-Beuren Syndrome*
Colgate University (New York)
Preceptor: Dr. Laryssa Huryn

#218. Rohan Gupta
*Automatic Retinal Layer Segmentation in OCT Images of a Laser-induced Porcine Model for Retinal Injury*
University of Florida (Florida)
Preceptor: Dr. Francesca Barone

#219. Rishabh Hirday
*Derivation of iPSC Monocytes to Study Immune Reactions of Early AMD in an Isogenic 3D Choroid RPE Model*
Rutgers University (New Jersey)
Preceptor: Dr. Tea Soon Park

#220. Robin Kee
*Validation of CRISPR-i dCas9 Systems in Zebrafish*
University of Nevada Las Vegas (Nevada)
Preceptor: Dr. Sunit Dutta

#221. Eunyoo Kim
*Investigating the Interactive Role of NR2E3 during the Rod Photoreceptor Development and Homeostasis*
Cornell University (New York)
Preceptors: Dr. Jacob Nellissery, Dr. Anand Swaroop

#222. Arnold Leigh
*Induced Pluripotent Stem Cells Derived from Oculocutaneous Albinism Type 2 Patients Provide an in vitro Model to Restore Pigmentation in the Retinal Pigment Epithelium through CRISPR-Cas9 Gene Editing*
University of Virginia (Virginia)
Preceptors: Dr. Aman George, Dr. Brian Brooks

#223. Lior Levy
*Retinal Circuits Driving Image- and Non–image-forming Visual Behavior*
Johns Hopkins University (Maryland)
Preceptors: Dr. Johan Pahlberg, Dr. Ulisse Bocchero

#224. Caitlin Murphy
*Commensal Microbiota Promotes Ocular Autoimmunity in Retina-specific T Cell Receptor Transgenic Mice*
Lehigh University (Pennsylvania)
Preceptors: Dr. Rachel Caspi, Dr. Reiko Horai

#225. Isabella Osuna
*Tyrosinases: Enzymatic Characterization of Key Steps in Melanin Pathway*
Rice University (Texas)
Preceptors: Dr. Yuri Sergeev, Dr. Monika Dolinska

#226. Laura Patak
*Identification of Transcription Factors Involved in the Specification of Photoreceptor Subtypes*
Colgate University (New York)
Preceptors: Dr. Wei Li, Dr. Juan Angueyra
#227. Allison Seifert  
*Use of Single Domain Nanobody to Suppress CNS Autoimmune Diseases*  
College of William & Mary (Virginia)  
Preceptor: Dr. Charles Egwuagu

#228. Dhyanam Shukla  
*A CRISPR/Cas9 Screen in Zebrafish to Identify Genes Involved in Optic Fissure Closure*  
Rutgers University (New Jersey)  
Preceptors: Dr. Brian Brooks, Dr. Uma Neelathi

#229. Sharanya Suresh  
*Morphometric Analysis of the Human Retinal Pigment Epithelium Indicates Regional Susceptibilities to Disease*  
University of Southern California (California)  
Preceptor: Dr. Davide Ortolan

#230. Taariq Woods  
*Assessing the Destabilizing Effects of OCA8-related Missense Mutations in Tyrp2*  
University of Massachusetts Amherst (Massachusetts)  
Preceptor: Dr. Yuri Sergeev

#231. Danielle Yee  
*Characterizing the Role of Ermin in RPE Function*  
University of Illinois at Urbana Champaign (Illinois)  
Preceptors: Dr. T. Michael Redmond, Dr. Yan Li

**National Institute on Aging (NIA)**

#232. Andy Malik Afrifa  
*The Functionality of Antibody Class in Atherosclerotic Plaque Development*  
Virginia Commonwealth University (Virginia)  
Preceptors: Mr. Joshua Taylor, Dr. Patricia Gearhart

#233. Valerie Altouma  
*Identification of New Anti-viral Drugs to Inhibit Coronavirus Replication*  
Rutgers University (New Jersey)  
Preceptors: Dr. Weidong Wang, Dr. Tianyi Zhang

#234. Pilar Alvarez Jerez  
*Resolving a Complex Structural Variant Haplotype at the SNCA Locus Using Targeted Long Read Sequencing*  
University of Florida (Florida)  
Preceptor: Dr. Kimberley Billingsley

#235. Daniela Barata Herrera  
*Study of Longitudinal Aging in Mice (SLAM): Motor Function Performance across Lifetime*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Rafael de Cabo

#236. Elisabeth Buvarp  
*Effect of DNA Base Excision Repair, Ung-1 Deletion, on Tau Pathology in C. elegans*  
University of Colorado Colorado Springs (Colorado)  
Preceptor: Dr. Vilhelm Bohr
#237. Anjali Byappanahalli
*EV Characteristics Are Altered with Frailty*
Purdue University (Indiana)
Preceptors: Dr. Nicole Noren Hooten, Dr. Michele Evans

#238. Meaghan Cabassa
*Study of Longitudinal Aging in Mice: Histopathological Characterization & Disease Burden of the Heart*
Misericordia University (Pennsylvania)
Preceptors: Dr. Rafael de Cabo, Dr. Eleonora Duregon

#239. Angelica Carr
*Single-cell RNA Sequencing Reveals Unique Senescent Subpopulations in Murine Atherosclerosis*
Howard University (District of Columbia)
Preceptor: Dr. Ali Herman

#240. Joseph Chen
*Characterization of CD8+ T cells from CSF and Brain of an Alzheimer’s Disease Mouse Model*
Duke University (North Carolina)
Preceptor: Dr. Nan-Ping Weng

#241. Liam Cheng
*Associations between Cerebellar Purkinje Cells and Memory in a Rodent Model of Normal Cognitive Aging*
Johns Hopkins University (Maryland)
Preceptor: Dr. C’iana Cooper

#242. Cecily Choy
*SARS-CoV-2-specific CD8 T Cells in Healthy, Vaccinated, and Convalescent Individuals with Respect to Age*
Carleton College (Minnesota)
Preceptor: Dr. Nan-ping Weng

#243. Samuel Cockey
*Understanding the Role of the EDA Pathway in Skeletal Muscle*
University of Florida (Florida)
Preceptors: Dr. Myriam Gorospe, Dr. Chang-Yi Cui

#244. Jenifer Cordon
*Identification of Plasma Biomarkers for Brain Endothelial Function*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Keenan Walker, Dr. Heather Dark

#245. Gulzar Daya
*Association of Body Fat Indices with Neurocognitive Outcomes in the Baltimore Longitudinal Study of Aging (BLSA)*
University of Chicago (Illinois)
Preceptors: Dr. Keenan Walker, Dr. Michael Duggan

#246. Shanaya Fox
*Effect of Na/K-ATPase Inhibitor Marinobufagenin on Cognition and Gene Expression in a Mouse Model of Alzheimer's Disease*
College of Idaho (Idaho)
Preceptor: Dr. Olga Fedorova
#247. Vishant Gandhi
*Tumor Burden Characterization in the Study of Longitudinal Aging in Mice*
University of California, Riverside (California)
Preceptors: Dr. Rafael deCabo, Dr. Eleonora Duregon

#248. Raul Garcia Rosario
*Neuroadaptive Remodeling of the Medial Temporal Lobe Supports Successful Recognition Memory in a Rat Model of Cognitive Aging*
University of Puerto Rico-Rio Piedras (Puerto Rico)
Preceptors: Dr. Perla Moreno Castila, Dr. Peter Rapp

#249. Jordan Gregg
*Impact of Atherosclerosis-induced Cellular Senescence on Vascular Cognitive Impairment and Dementia (VCID)*
University of Rochester (New York)
Preceptor: Dr. Alison Herman

#250. Mahdi Haghkar
*Cognitive Impairment Is Associated with Cardiovascular Remodeling in the Mouse Model of Alzheimer’s Disease*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Olga Fedorova

#251. Brenna Hairston
*Testing for Endogenous LRRK2 Halo Fusion in iPSCs*
Howard University (District of Columbia)
Preceptors: Dr. Mark Cookson, Dr. Sasha Beilina

#252. Humza Hemani
*Hemagglutinin-specific B cell Response to Influenza Vaccination in Old Individuals*
University of Michigan (Michigan)
Preceptor: Dr. Nan-ping Weng

#253. Lizzy Izydore
*Analysis of Senescent Primary Human Myoblasts and Their Role in Myogenesis*
University of Maryland College Park (Maryland)
Preceptor: Dr. Jen-Hao Yang

#254. Paul Jones
*Biochemical Analyses of the Nucleic Acid Substrate Specificity and Protein Partners Required for Efficient Duplex Unwinding by the COVID-19 Nsp13 Helicase Implicated in Coronavirus Replication*
Vanderbilt University (Tennessee)
Preceptor: Dr. Robert Brosh

#255. CANCELLED: Amogh Kashyap
*GM-CSF Overexpression Influences the Hematopoietic Landscape*
University of Texas at Austin (Texas)
Preceptor: Dr. Isabel Beerman

#256. Matthew Kiely
*New Methods for Fast Whole-brain Mapping of g-ratio Using Advanced Quantitative MRI*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Mustapha Bouhrara
#257. De'Larrian Knight  
**Extracellular Vesicle Biomarkers Respond to Physical Activity in Alzheimer’s Disease**  
Tuskegee University (Alabama)  
Preceptors: Dr. Dimitrios Kapogiannis, Dr. Francheska Delgado-Peraza

#258. Priya Krishna, Sandy Ng  
**Dietary Intervention as a Modulator of Breast Cancer Growth and Metastasis in 4T1 and 4T1-luc2 Models**  
University of Maryland, Baltimore County (Maryland), University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Rafael de Cabo, Dr. Amanda Garrido

#259. Medha Krishnagiri  
**Cathepsin D Deficiency Does Not Aggravate Lrrk2 Knock-out Phenotype**  
Rutgers University (New Jersey)  
Preceptors: Dr. Natalie Landeck, Dr. Mark Cookson

#260. Julie Lake  
**Trans-ancestry Genome-wide Meta-analysis and Fine-mapping of Alzheimer’s Disease**  
University of California, Berkeley (California)  
Preceptor: Ms. Hampton Leonard

#261. Keva Li  
**Photobiomodulation Accelerates Wound Healing in Heart Tissue**  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Cristina Florio, Dr. Edward Lakatta

#262. Kevin Liu  
**Aging-associated Heterochromatin Dysfunction in Lymphocytes and Monocytes**  
Wesleyan University (Connecticut)  
Preceptors: Dr. Roshni Roy, Dr. Ranjan Sen

#263. Joseph Llewellyn  
**Single Cell Multi-omic Analysis of Multiple Sclerosis-derived Induced Neural Stem Cells**  
University of California, Davis (California)  
Preceptors: Dr. Isabel Beerman, Dr. Dimitrios Tsitsipatis

#264. Lorin Loftus  
**Molecular Characterization of a Novel Catalytic Function of the COVID-19 Nsp13 Helicase Required for SARS-CoV-2 Genome Proofreading to Ensure Coronavirus Replication Fidelity**  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Robert Brosh

#265. Jade Lugo  
**Understanding Enhancer Grammar through the Interplay of Chromatin and Transcription Factors**  
Kennesaw State University (Georgia)  
Preceptors: Dr. Ranjan Sen, Dr. Fatima-Zohra Braikia

#266. Maiya MacAlpine  
**Associations between Basal Forebrain tau PET and Medial Temporal Lobe Gray Matter Volume**  
University of Wisconsin-Madison (Wisconsin)  
Preceptors: Dr. Andrea Shafer, Dr. Murat Bilgel

#267. Jessica Martin  
**Identifying RNA Modifications after Heat Shock with a Neural Network**
#268. Brendan Mitchell
*Metabolomic Signatures of Brain Atrophy Patterns in Aging and Alzheimer’s disease*
University of California, Riverside (California)
Preceptors: Dr. Qu (Teresa) Tian, Dr. Luigi Ferrucci

#269. Ki Yoon Nam
*Proposal for Investigating Functionality of ALDH1A1-positive nDANs in Motor Skill Learning*
Johns Hopkins University (Maryland)
Preceptor: Dr. Lupeng Wang

#270. James Occean
*DNA Hydroxymethylation Maintains Transcriptional Stability during Aging*
University of South Florida (Florida)
Preceptor: Dr. Payel Sen

#271. Victor Omoniyi
*Investigating Extracellular Vesicles as a Biomarker Associated with Hypertension Health Disparities*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Michele Evans, Dr. Nicole Noren Hooten

#272. Jonathan Palumbo
*Predicting Age-related Gait Speed Decline with Deep Learning*
College of William & Mary (Virginia)
Preceptor: Dr. Richard Spencer

#273. Aaron Park
*Topoisomerase 3 beta Is Required for Defense against Bacterial Infection*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Weidong Wang, Dr. Seung Kyu Lee

#274. Krishna Pucha
*Leveraging Single Cell Expression Data to Discover Biomarkers and Uncover Biological Processes in ‘Omic’ Studies*
Emory University (Georgia)
Preceptor: Dr. Dimitrios Kapogiannis

#275. Anjana Ram
*Proteomic Discovery of Senescence Biomarker Candidates from Monocytes*
University of Texas at Austin (Texas)
Preceptor: Dr. Nathan Basisty

#276. Breanna Sullivan
*Reconfiguration of Striosome Neuron Subtypes in a Nigral Dopaminergic Neuron-depleted Mouse Model*
Hofstra University (New York)
Preceptors: Dr. Huaibin Cai, Dr. Jie Dong

#277. Marcell Szabo
*Modulation of Neurodegeneration by CSFR1 Inhibition in Models of Synucleinopathy*
University of Washington (Washington)
Preceptors: Dr. Eliezer Masliah, Dr. Changyoun Kim
#278. Hikari Tanaka
*Characterizing the Impact of NQO1 Activity on the Onset/Progression of Alzheimer’s Disease using a Mouse Model*
Vassar College (New York)
Preceptors: Dr. Rafael deCabo, Dr. Simonetta Camandola

#279. Carlos Ticas
*Old B Cells Are Hyper-responsive and Produce Non-specific Antibodies*
University of Massachusetts - Lowell (Massachusetts)
Preceptors: Dr. Patricia Gearhart, Dr. Robert Maul

#280. Ella Tommer
*Microglial NF-κB Signaling in Parkinson’s Disease*
Indiana University - Bloomington (Indiana)
Preceptors: Dr. Ranjan Sen, Dr. Roshni Roy

#281. Curtis Triebswetter
*Cerebral Blood Flow Is Associated with Longitudinal Changes in Cerebral Microstructural Integrity*
University of California, San Diego (California)
Preceptor: Dr. Mustapha Bouhrara

#282. Kathryn Tsai
*PLEIOVAR – An Effective Joint Scoring Method of Gene Networks vs. Multiple Traits*
Villanova University (Pennsylvania)
Preceptors: Dr. Osorio Mereilles, Dr. Lenore Launer

#283. Michael Vreones
*Nicotinamide Riboside Increases NAD+ and Is Associated with Changes in Neuronal Insulin Signaling in Humans*
Florida State University (Florida)
Preceptor: Mr. Dimitrios Kapogiannis

#284. Shivani Waghmare
*Functional Consequences of Mono-ribonucleotide Incorporation on DNA Unwinding by DNA Repair Helicases*
Stevenson University (Maryland)
Preceptor: Dr. Robert Brosh

#285. Caroline Ward
*Do Repeated, Longitudinal Measurements of Working Memory Forestall Cognitive Decline in Mice?*
College of William and Mary (Virginia)
Preceptor: Dr. Ross McDevitt

#286. Emily Wichmann
*Regulation of Naive T Cell Proliferation by Serotonin Receptor HTR1B/1D*
University of Alabama in Huntsville (Alabama)
Preceptors: Dr. Nan-ping Weng, Dr. Qian Yang

#287. Andrew Zheng
*Mutation Enrichment in Secondary Structure Elements of the SARS-CoV-2 Genome*
Hunter College (New York)
Preceptor: Dr. Jun Ding
National Institute on Alcohol Abuse and Alcoholism (NIAAA)

#288. Rodrigo Alonso Sandon Veliz
Charaterizing an Amygdala-Striatal Pathway Contributing to Risky Decision-making
University of Maryland, College Park (Maryland)
Preceptor: Dr. Patrick Piantadosi

#289. Madeline Behee
Does Cannabinoid Use by Inhalation Regulate Circulating Inflammatory Chemokines and Cytokines via Pulmonary CB1Rs?
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Resat Cinar

#290. Andrew Bell
Comparing the Relationships of Genetically Proxied PCSK9 Inhibition with Mood Disorders, Cognition, and Dementia between Men and Women: A Drug-Target Mendelian Randomization Study
Cornell University (New York)
Preceptor: Dr. Falk Lohoff

#291. Emma Buckler
An Explorative Study of the Association between Exposure to Childhood Trauma and Alcohol Use Disorder
State University of New York at Buffalo (New York)
Preceptor: Dr. Reza Momenan

#292. Alexa Herrerias
Targeting CB1 Receptors in Sensory Afferent Neurons for the Regulation of Alcohol Drinking
George Mason University (Virginia)
Preceptors: Dr. George Kunos, Dr. Gregorz Godlewski

#293. Sarah Izabel
Executive Function Domain Factors and its Association with Childhood Trauma and Alcohol Related Outcomes
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Tommy Gunawan, Dr. Vijay Ramchandani

#294. Zev Jarrett
Spinal GlyT2 Cell-type Specific GlyRalpha1 Receptors Play a Major Role in Motor Control
University of Massachusetts Amherst (Massachusetts)
Preceptor: Dr. Li Zhang

#295. Logann Johnson
Design, Synthesis, and Biological Evaluation of 4,5-Dimethylthiazole-amine-based ligands for Cannabinoid-receptor-2-mediated Effects
University of Toledo (Ohio)
Preceptor: Dr. Malliga Iyer

#296. Karli LeFort
Melatonin Mitigates Thioacetamide-induced Hepatocyte Apoptosis and Liver Fibrosis Partly by Regulating Protein Acetylation
University of Massachusetts Amherst (Massachusetts)
Preceptors: Dr. Byoungjoon Song, Dr. Wiramon Rungrantanawanich

#297. Noa Leiter
Age of Onset of Early Life Stress and Anxiety Symptoms, Depressive Symptoms, and Alcohol Problems in Adults across the Alcohol Use Spectrum
#298. Hongkun Joy Lu  
*A Kinetic and Zonal View of Cell Proliferation in Liver Regeneration after Partial Hepatectomy*  
Duke University (North Carolina)  
Preceptors: Dr. Bin Gao, Dr. Dechun Feng

#299. Lucas Mavromatis  
*A Multivariable Mendelian Randomization Study Disentangling the Relationships among Neuropsychiatric Disorders, Substance Use Behaviors, and Longevity*  
Brown University (Rhode Island)  
Preceptor: Dr. Falk Lohoff

#300. Emma McCabe  
*Exercising Healthy Behaviors: A Latent Class Analysis of Positive Coping Behaviors during COVID-19 and Associations with Alcohol-related and Mental Health Outcomes*  
Elon University (North Carolina)  
Preceptors: Dr. Jeremy Luk, Dr. Bethany Stangl

#301. Carlos Melendez  
*Association between Childhood Trauma and Drinking Outcomes Is Mediated by Negative Emotionality Factors in People across the Spectrum of Alcohol Use and Alcohol Use Disorder*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Tommy Gunawan, Dr. Vijay Ramchandani

#302. Nafisa Nawal  
*Examining the Relationship between Taste Preference and Threshold and Nutritional Intake*  
Georgia State University (Georgia)  
Preceptors: Dr. Paule Joseph, Dr. Rosario Jaime-Lara

#303. Josephine Nimely  
*Structural Dynamics and Biological Evaluation of 3,4-Diarylpyrazoline Derivatives Binding to Cannabinoid Receptor 1*  
Lincoln University (Pennsylvania)  
Preceptor: Dr. Malliga Iyer

#304. Victoria Offenberg  
*Modulation of Fear and Extinction by Astroglial CB1 Receptors in the Basolateral Amygdala*  
University of New Hampshire (New Hampshire)  
Preceptor: Dr. Olena Bukalo

#305. Anna Oliverio  
*The Role of Adipocyte Endocannabinoid 1 (CB1) Receptor in the Development of Obesity*  
Thomas More University (Kentucky)  
Preceptors: Dr. Jie Liu, Dr. George Kunos

#306. Torben Pearson  
*Imaging Synaptic Adenosine Fluctuation: Potential of Novel A1R Radiotracer and PET*  
University of San Diego (California)  
Preceptor: Dr. Sunny Kim

#307. Sarah Perry  
*Investigating the Contributions of Nucleus Accumbens Shell Spiny Projection Neuron Subtypes to Risky Decision Making*
Texas A & M University (Texas)
Preceptor: Dr. Patrick Piantadosi

#308. Victoria Rabii
fMRI Comparisons in Emotion Regulation and Drinking Behaviors in Children with and without Parental AUD from the Adolescent Brain Cognitive Development (ABCD) Study
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Reza Momenan

#309. Stephanie Ramos-Maciel
Effects of Chemogenetic Modulation of Medial Septum Glutamate Neurons on Goal-directed Behavior in Mice
University of California, Davis (Maryland)
Preceptor: Dr. Andrew Kesner

#310. Noa Reuveni
Impaired Extinction in Female Fetal Alcohol Spectrum Disorder (FASD) Model Mice
Utah State University (Utah)
Preceptor: Dr. Sebastiano Bariselli

#311. Nicholas Rutland
Probes for Cannabinoid Receptor-mediated Phenomena
Oberlin College (Ohio)
Preceptor: Dr. Malliga Iyer

#312. Rajon Scott
Incentive Salience Mediates the Relationship between Childhood Trauma and Alcohol Use Disorder
Howard University (District of Columbia)
Preceptors: Dr. Tommy Gunawan, Dr. Nancy Diazgranados

#313. Elise Van Leer
Deletion of CB1Rs in vmPFC → BLA Neurons via CRISPR-Cas9 Impairs Fear Extinction Memory Formation
McGill University (Non-U.S.)
Preceptors: Dr. Andrew Holmes, Dr. Ozge Gunduz Cinar

#314. Rhianna Vergeer
Role of Depressive Symptoms and Craving in the Association between Psychiatric and Addiction Treatment Interference and Perceived Stress during the COVID-19 Pandemic
University of Michigan, Ann Arbor (Michigan)
Preceptor: Dr. Vijay Ramchandani

#315. Nina Westcott
Optogenetic Deep Brain Stimulation of the Supramammillo-Septal Pathway Increases Goal Directed Effort
Wake Forest University (North Carolina)
Preceptors: Dr. Andrew Kesner, Dr. David Lovinger

#316. Eli Winkler
Role of Histone Deacetylase Inhibitors in Cellular Bioenergetics of Hepatocellular Carcinoma
University of Maryland, College Park (Maryland)
Preceptors: Dr. Bani Mukhopadhyay, Dr. David Goldman

#317. Kaelin Wolf
Pulmonary Delivery of MRI-1867 (Zevaquenabant) as a Novel Therapeutic Modality in Pulmonary Fibrosis to Improve Bioavailability and CNS Safety for CB1R Antagonism
#318. Maya Xia

*In vivo Endocannabinoid Dynamics in a Prefrontal Cortex to Amygdala Circuit during Fear Extinction*

Vanderbilt University (Tennessee)
Preceptors: Dr. Ozge Gunduz-Cinar, Dr. Andrew Holmes

#319. Ugne Ziausyte

*Examining Sociodemographic Disparities and Role of Alcohol Use Disorder in Perceived COVID-19 Threat and Social Distancing Behaviors*

Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Jeremy Luk, Dr. Bethany Stangl

#320. Sydney Zimmerman

*Functional Roles of Astrocyte Calcium Elevations in the Basolateral Amygdala*

Kansas State University (Kansas)
Preceptor: Dr. Olena Bukalo

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Wednesday, April 27, 2022

National Cancer Institute (NCI, Posters 321-379)

#321. Eva Agostino

*Inhibition of Neutral Sphingomyelinase 2 Blocks HIV-1 Maturation and Replication*

University of Maryland, College Park (Maryland)
Preceptors: Dr. Eric Freed, Dr. Abdul Waheed

#322. Funto Akindona

*Exploring the Origin of the Cancer Stem Cell Niche and Its Role in Anti-angiogenic Treatment for Glioblastoma*

Carleton College (Minnesota)
Preceptor: Dr. Mark Gilbert

#323. Sarangelica Alamo-Ortiz

*Role of Argonaute Somatic Mutations in miRNA Function in Tumors*

University of Puerto Rico- Humacao (Puerto Rico)
Preceptors: Dr. Xavier Bofill-De Ros, Dr. Shuo Gu

#324. Eugene Alforque

*Combination Therapy Development with MEK Inhibitors for Malignant Peripheral Nerve Sheath Tumors*

University of California, San Diego (California)
Preceptor: Dr. Karlyne Reilly

#325. Neriah Alvinez

*CAPturing the Kinetics of Microcluster Assembly in CARs and Chimeric Adaptor Proteins (CAPs)*

Western Washington University (Washington)
Preceptors: Dr. Lakshmi Balagopalan, Dr. Lawrence Samelson

#326. Emily Andersen

*The Crystal Structure of [L8K]Arf1: Riding the Third Switch*

Troy University (Alabama)
Preceptors: Dr. Eric Rosenberg, Dr. Paul Randazzo
#327. Sneha Anmalsetty
**COX2 and NOS2 Modulate the Spatial Organization of Factors of Epithelial and Mesenchymal Cells in an in vitro Model of a Hypoxic Tumor Microenvironment**
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Will Heinz

#328. Nicolai Apenes
**IL-2 Sequestration by Regulatory T Cells Limits ILC2-mediated Pathogenesis**
University of Portland (Oregon)
Preceptors: Dr. Xuguang Tai, Dr. Alfred Singer

#329. Yana Astter
**Identification of Caspase Cleavage Sites in the Kaposi Sarcoma-associated Herpesvirus Proteome: An Antiapoptotic Role for K5**
Carthage College (Wisconsin)
Preceptors: Dr. David Davis, Dr. Robert Yarchoan

#330. Brittany Baikie
**BK Polyomavirus Replication Is Enhanced by Transcription Factors Associated with Urothelial Differentiation and Luminal Bladder Cancer**
University of California, Davis (California)
Preceptor: Dr. Gabriel Starrett

#331. Shania Bailey
**PROSTVAC in Combination with Nivolumab Enhanced Immune Cell Infiltration in Prostate Cancer**
Salisbury University (Maryland)
Preceptors: Dr. James Gulley, Dr. Wiem Lassoued

#332. Madison Ballman
**Immunogenicity of SARS-CoV-2 mRNA Vaccines in Individuals with Thymic Epithelial Tumors**
University of Virginia (Virginia)
Preceptor: Dr. Arun Rajan

#333. Alexandra Beran
**The Role of siSTC1 in Kaposi’s Sarcoma Associated Herpesvirus (HHV-8)**
University of Richmond (Virginia)
Preceptor: Dr. Anna Serquina

#334. Brandon Bergsneider
**Discovery of Clinical and Demographic Determinants of Symptom Burden of Primary Brain Tumor Patients through Unsupervised Clustering and Network Analysis**
Stanford University (California)
Preceptor: Dr. Orieta Celiku

#335. CANCELLED: Katy Beshears
**Elucidating the Role of the Extracellular Leucine-rich Region in TrkB Signaling**
Wake Forest University (North Carolina)
Preceptor: Dr. Zhenyi Hong

#336. David Beshensky
**Predictors and Significance of Renal Dysfunction in Patients with Chronic Graft-versus-Host Disease**
#337. Joel Bowman  
*Leveraging Next Gen Sequencing Data and High Throughput Drug Screening to Model Resistance and Sensitivity to Pharmacotherapy*  
Mount St. Mary's University (Maryland)  
Preceptor: Dr. Ilya Senatorov

[#338. Carolyn Brandt: MOVED TO NCI-DCEG AFTER #570  
*Disparities in Second Primary Cancer Risk among Breast Cancer Survivors in the United States by County-level Socioeconomic Status and Rurality*  
George Washington University (District of Columbia)  
Preceptor: Dr. Cody Ramin]

#339. Jesse Buffington  
*A Novel Shark Nanobody Targeting the S2 Subunit Efficiently Neutralizes SARS-CoV-2 Variants of Concern*  
Loras College (Iowa)  
Preceptors: Dr. Mitchell Ho, Dr. Zhijian Duan

#340. Crystal Burgess  
*Longitudinal Analysis of Whole-body MRI Findings in Neurofibromatosis Type 1*  
Agnes Scott College (Georgia)  
Preceptors: Dr. Andrea Gross, Dr. Brigitte Widemann

#341. Grace Carey  
*The Transcription Factor DUXBL Regulates the Exit from the 2-cell-like State*  
Hamilton College (New York)  
Preceptor: Dr. Sergio Ruiz Macias

#342. Josh Carreras  
*The Role of Cohesin in Chromatin Domain Formation*  
Vassar College (New York)  
Preceptors: Dr. Tom Misteli, Dr. Elizabeth Finn

#343. Pedro Castineira  
*Constitutive Methylation of CENP-A Contributes to Kinetochore Dysfunction and Chromosomal Instability*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Munira Basrai, Dr. Prashant Mishra

#344. Anirban Chakraborty  
*A Novel Bispecific Antibody Targets CD3 and the Juxta-membrane Region of Mesothelin for Cancer Immunotherapy*  
Tufts University (Massachusetts)  
Preceptor: Dr. Ira Pastan

#345. Mehal Churiwal  
*HiBiT-tagging Endogenous PAX3-FOXO1 in Rhabdomyosarcoma Identifies Precise Degraders of the Fusion Oncogene*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptors: Dr. Javed Khan, Dr. Jun Wei

#346. GeGe Clements  
*Melanoma Epithelial-Mesenchymal Plasticity Is Associated with BRAF/MEK Resistance to Therapy*  
Vanderbilt University (Tennessee)
Preceptors: Dr. Yanlin Yu, Dr. Glenn Merlino

#347. Victor Collins
The Efficacy of Standard Topoisomerase 2 Inhibitors Is Enhanced by Addition of DNA-PK Inhibitors in Preclinical Models of Ewing Sarcoma
University of Akron (Ohio)
Preceptor: Dr. Christine Heske

#348. Isabel Daher
Reorganization of PML-NB Components into Nuclear Tracks is Independent of the Catalytic Domain of Murine Gammaherpesvirus Ribonucleotide Reductase R1
University of Florida (Florida)
Preceptor: Dr. Laurie Krug

#349. Asha Daryanani
Pathophysiologic Characterization of Castration-resistant Prostate Cancer Metastasis in a Clinically Relevant Model
University of Maryland, College Park (Maryland)
Preceptor: Dr. Ivy Yin

#350. Alyssa Doverte
Normal vs. Abnormal Myeloid Cell Evaluation: CD33 Quantification Using QuantiBrite Bead Method
Loyola University Maryland (Maryland)
Preceptors: Dr. Constance Yuan, Dr. Hao-Wei Wang

#351. Justyn DuSold
Shifting the Gears of CAR-T Cell Function through TCR Interactions
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Naomi Taylor, Dr. Taisuke Kondo

#352. Jacob Edelson
Survival Trends in Primary Brain Tumors by Malignant and Non-malignant Status from National Program of Cancer Registries, 2004-2017
Stanford University (California)
Preceptor: Dr. Jill Barnholtz-Sloan

#353. Stanley Fayn
Imaging of Hepatocellular Carcinoma Using Glypican-3 Targeted Single Domain Antibodies
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Mr. Freddy Escorcia

#354. Sally Feng
Optimization of Antibody Staining in Thick Tissue
University of Maryland, College Park (Maryland)
Preceptors: Dr. Valentin Magidson, Dr. Stephen Lockett

#355. Elvelyn Fernandez
Efficacy and Toxicity of Immune Checkpoint Inhibitors in Xeroderma Pigmentosum Patients
Georgetown University (District of Columbia)
Preceptors: Dr. Kenneth Kraemer, Dr. John DiGiovanna

#356. Kate Forsythe, Valencia Williams
Single-cell Profiling and Comparative Analysis of 2D and 3D Bladder Cell Lines
University of Texas at Austin (Texas), University of Minnesota Twin Cities (Minnesota)
#357. Abigail Fry
*Introducing Treasure Tour: The Development of an Educational App for Pediatric Patients at the NIH Clinical Center*
Davidson College (North Carolina)
Preceptor: Dr. Lori Wiener

#358. Will Frye
*Characterization and Tissue Localization of Zebrafish Homologs of the Human ABCG2 Multidrug Transporter*
University of Louisville (Kentucky)
Preceptor: Dr. Michael Gottesman

#359. Catherine Gill
*Examining the Ubiquitin-Proteasome System-mediated Quality Control of the Temperature Sensitive Mitochondrial Matrix Protein yah1HAts*
Gordon College (Massachusetts)
Preceptor: Dr. Meredith Metzger

#360. Kara Gillmann
*Designing and Optimizing an Anti-glycan Antibody Microarray*
College of the Holy Cross (Massachusetts)
Preceptor: Dr. Jeff Gildersleeve

#361. Jamie-Jean Gilmer
*Ectopic Expression of beta5t Hinders CD8+ T Cell Development*
Virginia Commonwealth University (Virginia)
Preceptors: Ms. Alison Jacques, Dr. Yousuke Takahama

#362. Loran Gliford
*Elucidating TOR Complex Assembly through HEAT Mutations of mTOR in Cancer*
University of Rhode Island (Rhode Island)
Preceptors: Dr. Beverly Mock, Dr. Joe Nguyen

#363. Victoria Gonzalez
*Understanding Cancer Stem Cell Kinetics: Cell Density as a Negative Regulatory Factor*
Princeton University (New Jersey)
Preceptors: Dr. Lalage Wakefield, Dr. Binwu Tang

#364. José González Dalmasy
*Comparing METTL7A Function across Species*
University of Puerto Rico at Cayey (Puerto Rico)
Preceptors: Dr. Micheal Gottesman, Dr. Robert Robey

#365. Enoc Granados Centeno
*Lymphoma-associated Alterations in Bcl6 and Notch2 Synergistically Promote Expansion of Splenic Marginal Zone B Cells*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jagan Muppidi

#366. Charli Gruen
*Melanoma Clonal Subline Analysis Uncovers Heterogeneity-driven Immunotherapy Resistance Mechanisms*
University of California, Irvine (California)
Preceptors: Dr. Eva Pérez-Guijarro, Dr. Glenn Merlino
#367. Rohini Guin
*Establishing mTOR Complex Knockouts in the LP1 Human Multiple Myeloma Model*
Emory University (Georgia)
Preceptors: Dr. Joe Nguyen, Dr. Beverly Mock

#368. Sadeechya Gurung
*Extracellular Proximity Labeling as a Tool to Identify Protein-Protein Interactions*
University of Virginia (Virginia)
Preceptor: Dr. David Peeney

#369. Corrine Corrina Hartford
*Context-dependent Function of the IncRNA PURPL in Cancer*
Colgate University (New York)
Preceptors: Dr. Ioannis Grammatikakis, Dr. Ashish Lal

#370. Summer Harvey
*Associations of Life Course Obesity with Endometrial Cancer in the Epidemiology of Endometrial Cancer Consortium (E2C2)*
University of Virginia (Virginia)
Preceptors: Dr. Megan Clarke, Dr. Nicolas Wentzensen

#371. Ignatius Hazelwood
*Characterizing Chordoma Tumor Microenvironment: A Multiplexed Approach*
College of New Jersey (New Jersey)
Preceptor: Dr. Miranda Clements

#372. Lubna Hossain
*Impact of Early Life Anthropometrics and Physical Activity on Normal Breast Tissue Composition*
University of Iowa (Iowa)
Preceptors: Dr. Gretchen Gierach, Dr. Mustapha Abubakar

#373. Adanna Ibeku
*Progression of Scoliosis in Children with Neurofibromatosis Type 1 on a Clinical Trial of Selumetinib for Inoperable Plexiform Neurofibroma*
Stony Brook University (New York)
Preceptors: Dr. Andrea Gross, Dr. Eva Dombi

#374. Aleesha Jacob
*Determining Viral Exposure History in Liver Cancer Patients*
George Mason University (Virginia)
Preceptors: Dr. Limin Wang, Dr. Xin Wang

#375. Hilda Jafarah
*Using CRISPR-Cas9 Gene Editing Systems to Understand the Role of SNAI2 in Malignant Peripheral Nerve Sheath Tumors*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Xiyuan Zhang, Dr. Jack Shern

#376. Dun Jin
*Investigating the Role of Rab25-EGFR Signaling in Tumor Progression of Head and Neck Cancer*
University of Pennsylvania (Pennsylvania)
Preceptors: Dr. Weiye Wang, Dr. Roberto Weigert
#377. Bailey Johnson
*Intravital Imaging Reveals Organ Specific Heterogeneities in Immune Cell Dynamics and Morphologies in a Zebrafish Melanoma Model*
University of Mary Washington (Virginia)
Preceptor: Dr. Kandice Tanner

#378. Abigail Jolley
*Assessing the Functional Impact of IFITM Heteromultimers during Broad-spectrum Restriction of Virus Entry*
Converse University (South Carolina)
Preceptors: Dr. Kazi Rahman, Dr. Alex Compton

#379. Fred Jones
*The Transcription Factor T-bet Promotes Th17 Cell Recruitment to the CNS in Part by Regulation of CXCR6 Expression*
University of Northern Colorado (Colorado)
Preceptor: Dr. Vanja Lazarevic

[#624. Tishiya Carey  NOTE: This presenter is from NCI but presented with NCCIH.
Clinical Outcomes in Elderly People Living with HIV and Cancer
Washington University in Saint Louis (Missouri)
Preceptors: Dr. Ramya Ramaswami, Dr. Kathryn Lurain]

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

#380. Hugh Alessi
*Longitudinal Characterization of Vascular Inflammation and Disease Activity in Takayasu’s Arteritis and Giant Cell Arteritis*
Colorado College (Colorado)
Preceptor: Dr. Peter Grayson

#381. Qilin Cao
*Measuring Neutrophil Trafficking Kinetics by Serial Intravascular Staining*
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Luis Franco, Dr. E. Lake Potter

#382. Adeline Chin
*Proteomic Analysis of Juvenile Dermatomyositis (JDM) and Myositis-specific Autoantibody (MSA) Groups Identifies Key Differential Pathways*
Scripps College (California)
Preceptor: Dr. Hanna Kim

#383. Megan Darrell
*Peripheral Transcriptomic Analysis to Identify Key Differences in Juvenile Dermatomyositis (JDM) and Myositis-specific Autoantibody (MSA) Groups*
Wheaton College (Massachusetts)
Preceptor: Dr. Hanna Kim

#384. Sneha Dass
*Applying Pathway Analysis to Whole Genome Data to Identify Important Pathways in the Pathogenesis of Childhood Onset Systemic Lupus Erythematosus*
College of William and Mary (Virginia)
Preceptor: Dr. Laura Lewandowski

#385. Hanna Englander
*Specific Genetic Variants in Primary Immunodeficiency Disorders May Confer Increased Susceptibility to Alopecia Areata*
University of Connecticut (Connecticut)
#386. Robert Kwiat
*Quantitative Intracellular Localization of RNA Transcripts*
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Luis Franco, Dr. Davide Randazzo

#387. Mackenzie Martin
*Gfi1 Controls Postnatal Survival of Sensory Merkel Cells through the Dependence Receptor Pathway*
Colgate University (New York)
Preceptors: Dr. Lingling Miao, Dr. Isaac Brownell

#388. Christopher O'Neill
*Reprogramming of Diabetic Wounds by Sox2 Triggers a Pro-healing Transcriptional Signature*
University of Virginia (Virginia)
Preceptors: Dr. Maria Morasso, Dr. Andrew Sawaya

#389. Layne Oram
*Systemic Manifestations of DOCK8 Deficient Patients – The NIH Experience*
University of Virginia (Virginia)
Preceptor: Dr. Heidi Kong

#390. Alana Platukus
*Investigating the Role of Mutant IRAK2 in Systemic Juvenile Idiopathic Arthritis (sJIA)*
Dickinson College (Pennsylvania)
Preceptor: Dr. Michael Ombrello

#391. Danielle Reed
*Repurposing Disulfiram for the Treatment of Merkel Cell Carcinoma*
Amherst College (Massachusetts)
Preceptors: Dr. Natasha Hill, Dr. Isaac Brownell

#392. Elizabeth Schmitz
*De novo Caspase-4 Mutation in a Child with Severe, Early-onset Autoinflammation with Arthritis, colitis, Panniculitis, and Elevated Interleukin-18*
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Michael Ombrello

#393. Faith Simmonds
*Investigating the Role of the Virome in Systemic Lupus Erythematosus*
Howard University (District of Columbia)
Preceptor: Dr. Laura Lewandowski

#394. Emilee Stenson
*TGF beta-3: A Novel, Scleroderma Susceptibility Locus, Regulated by African Ancestry-specific Variants in African American Patients*
State University of New York at Fredonia (New York)
Preceptor: Dr. Pravitt Gourh

#395. Serena Vilasi
*The Paranuclear Dot in Merkel Cell Carcinoma: How Does It Form and What Does It Do?*
Georgetown University (District of Columbia)
Preceptors: Dr. Natasha Hill, Dr. Isaac Brownell
National Institute on Deafness and Other Communication Disorders (NIDCD)

#396. Siani Barbosa
Identifying Markers in Olfactory Epithelium Tissue
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Nyall London, Dr. Sreeni Gunti

#397. Sandeep David
Kif1aa-Based Microtubule Transport Maintains Synaptic Vesicle Populations in Sensory Hair Cells
University of Maryland, College Park (Maryland)
Preceptor: Dr. Katie Kindt

#398. Alma Jukic
Formation of Hair Cell Synapses
Colorado College (Colorado)
Preceptors: Dr. Katie Kindt, Ms. Katherine Pinter

#399. Jaylen Mumphrey
Examining the Therapeutic Potential of Exosomes in Hearing Loss
Louisiana Tech University (Louisiana)
Preceptors: Dr. Melanie Barzik, Dr. Lisa Cunningham

#400. Brenda Quiñones Flores
Investigating the Genetic Causes of Deafness in Puerto Rico
University of Puerto Rico, Aguadilla Campus (Puerto Rico)
Preceptors: Dr. Thomas Friedman, Dr. Rabia Faridi

National Institute of Environmental Health Sciences (NIEHS)

#401. Briana Bernstein
Characterizing Sex Differences in Automated Home Cage Systems
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Jesse Cushman

#402. Kamiya Bridges
Loss of Runx1 Expression Leads to Ovarian Defects and Increased Risk of Ovarian Tumors
Winston-Salem State University (North Carolina)
Preceptors: Dr. Barbara Nicol, Dr. Humphrey Yao

#403. Shalyn Brown
Erastin Rapidly Inhibits P-glycoprotein Transport Activity at the Blood-Brain Barrier
University of Cincinnati (Ohio)
Preceptor: Dr. Ronald Cannon

#404. Madison Calvert
Acute Sleep Disruption Does Not Diminish Pulsatile Growth Hormone Secretion in Pubertal Children
Boston University (Massachusetts)
Preceptor: Dr. Natalie Shaw
Christopher Camitta
*Function of the N Terminal Domain of the Essential ATPase Rix7*
Duke University (North Carolina)
Preceptor: Dr. Robin Stanley

Sydney Fry
*Genetic Deletion of Mineralocorticoid Receptors in CA2 Impairs the Precision of Behavioral Circadian Rhythmicity in a Sex-dependent Manner*
American University (District of Columbia)
Preceptor: Dr. Jesse Cushman

Abra Granger
*Employing MD for Characterization of dGTPase Enzyme Function in E. coli with a Cysteine to Serine Mutation in the Active Site*
University of Richmond (Virginia)
Preceptors: Dr. Lalith Perera, Dr. Roel Schaaper

Lauren Gullet
*Occupational Characteristics and Serious Psychological Distress in the United States*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Chandra Jackson, Dr. Dana Alhasan

Harrison Jacobs
*NLR4 Promotes Pulmonary Fibrosis*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Stavros Garantziotis, Dr. Yosuke Sakamachi

Daniel Nguyen
*Distinct Changes in Intracellular Metabolic Landscapes in a Model Eukaryotic System following Exposure to Compounds Thought to Be Generic Redox Agents*
University of Georgia (Georgia)
Preceptors: Dr. Paul Doetsch, Dr. Natalya Degtyareva

Yvette Oppong
*Are There Synergistic Epigenetic Effects between Phthalate Exposure and Endogenous Progesterone?*
University of Connecticut (Connecticut)
Preceptor: Dr. Elizabeth Martin

Andrew Perl
*Regulation of Microglia Function during Alzheimer’s Disease*
Ohio State University (Ohio)
Preceptor: Dr. Elizabeta Gjoneska

Olivia Peterson: MOVED TO NIMH AFTER #154
*Cognitive Rigidity: Examining Emotional, Behavioral, and Neural Responses during a Frustration Task*
Middlebury College (Vermont)
Preceptors: Dr. Ellen Leibenluft, Dr. Julia Linke, Dr. Jung Kim

David Salven
*Structure-function Studies of Treacle, the Treacher Collins Syndrome (TCOF1) Gene Product*
Duke University (North Carolina)
Preceptors: Dr. Percy Tumbale, Dr. R. Scott Williams
#415. Kee-Lee Stocks
*Single Molecule RNA FISH Screen of Epigenetic Compounds to Understand ACE2 and TMPRSS2 Gene Regulation*
University of Minnesota - Twin Cities (Minnesota)
Preceptor: Dr. Joseph Rodriguez

#416. Isha Wilson
*Functional Analysis of SARS-CoV-2 Nsp15 Endoribonuclease Variants*
University of North Carolina at Charlotte (North Carolina)
Preceptor: Dr. Robin Stanley

#417. Diane Youngstrom
*Why Do We Exercise: Genetics or Environment?*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Jerry Yakel, Dr. Ayland Letsinger

#418. Amy Zhao
*Cadmium Attenuates Tonicity Responsive Gene Expression in the Kidney*
Duke University (North Carolina)
Preceptor: Dr. Jason Watts

**Clinical Center (CC)**

#419. Jenna Alkhatib
*Pro-inflammatory Cytokine Levels Are Associated with High Levels of Drinking and Measures of Poor Sleep Quality, Anxiety, and Depression in Individuals with Alcohol Use Disorder*
University of Alabama at Birmingham (Alabama)
Preceptors: Dr. Gwenyth Wallen, Dr. Katherine Maki

#420. Akshaya Anand
*Deep Learning for Automated Contrast Phase Classification of CT Scans*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Jianfei Liu

#421. Alyssa Baginski
*Interleukin-8 (IL-8) as a Potential Mediator of an Association between Trimethylamine N-Oxide (TMAO) and Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) among African-Americans at Risk for Cardiovascular Disease*
University of Michigan (Michigan)
Preceptor: Dr. Nicole Farmer

#422. Ryan Baumann
*Comparison of Microarray and Next Generation Sequencing Methods for Simultaneous Detection of Chikungunya, Dengue, and Zika Viruses*
Missouri University of Science and Technology (Missouri)
Preceptor: Dr. Valeria De Giorgi

#423. Nathan Camarillo
*Cardiorespiratory Fitness and Ventilatory Efficiency in Post-COVID Patients*
University of Southern California (California)
Preceptors: Dr. Leighton Chan, Dr. Lisa Chin
#424. Devina Chatterjee  
Automated Detection of Abdominal Aortic Aneurysms in CT Scans with Deep Learning  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Thomas Shen, Dr. Ronald Summers

#425. Seila De Leon  
Flow Cytometry Analysis of Hematopoietic Lineages in RUNX1 Familial Platelet Disorder  
Yale University (Connecticut)  
Preceptor: Dr. Katherine Calvo

#426. Jay Desai  
The Psychological Impact of COVID-19 on Patients with Classic Congenital Adrenal Hyperplasia  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Deborah Merke, Dr. Monique Ernst

#427. Mary Kate Dougherty  
Understanding Persistent Pain Neurons from Rat to Human  
Saint Joseph's University (Pennsylvania)  
Preceptors: Dr. Andrew Mannes, Dr. Michael Iadarola

#428. Peter Erickson  
Class Imbalance Correction for Improved Universal Lesion Detection in CT Scans  
Villanova University (Pennsylvania)  
Preceptors: Dr. Ronald Summers, Dr. Tejas Mathai

#429. Emily Frucci  
Role of Inflammatory Cytokines in Adrenal Myelolipoma Development in Congenital Adrenal Hyperplasia  
University of Michigan (Michigan)  
Preceptors: Dr. Vipula Kolli, Dr. Deborah Merke

#430. Victoria Hinchberger  
Children with Bilateral Cerebral Palsy Exhibit Bilateral Behavioral and EEG Differences Relative to Children with Typical Development during a Complex Upper Extremity Motor Task  
University of Virginia (Virginia)  
Preceptors: Dr. Diane Damiano, Dr. Thomas Bulea

#431. Uma Jacobs  
Use of Wearable Sensors to Characterize Function in Patients with Spinal and Bulbar Muscular Atrophy and Amyotrophic Lateral Sclerosis Type 4  
Northwestern University (Illinois)  
Preceptors: Mr. Joseph Shrader, Dr. Minal Jain

#432. Victoria Kent  
Use of Wearable Inertial Sensors to Describe Change in Function over Time in an Individual With Myelodysplastic Syndrome/GATA2  
American University (District of Columbia)  
Preceptor: Dr. Minal Jain

#433. Alan Kim  
PET Imaging for Assessment of Brain Serotonergic and Dopaminergic Function in Treated HIV  
University of Chicago (Illinois)  
Preceptors: Dr. Dima Hammoud, Dr. Chuen-Yen Lau
#434. Cynthia Kim
Assessing the Specificity of Chest CT Findings in the Differential Diagnosis of Infectious Pneumonias
Pepperdine University (California)
Preceptors: Dr. Evrim Turkbey, Dr. Dima Hammoud

#435. Sarah Kollender
Effect of Gonadotropin-releasing Hormone Agonist Therapy on Bone Mineral Density in Patients with Congenital Adrenal Hyperplasia
Northwestern University (Illinois)
Preceptor: Dr. Deborah Merke

#436. Priyanka Kumar
Role of Precision/Significant Figures in Analysis of Stereophotogrammetry Images
Washington University in St. Louis (Missouri)
Preceptor: Dr. Scott Paul

#437. Izabella Lach
Characterization of NK Cell Populations in Severe COVID-19
University of Illinois Urbana-Champaign (Illinois)
Preceptors: Dr. Daniel Chertow, Dr. Andrew Platt

#438. Maya Lara
Generation of a Pathogen-specific Radiotracer Utilizing Nanobodies
Rochester Institute of Technology (New York)
Preceptor: Dr. Dima Hammoud

#439. Walker Lee
Determining Optimal Mobile Neurofeedback Methods for Motor Neurorehabilitation in Children and Adults with Non-progressive Neurological Disorders: a Scoping Review
Duke University (North Carolina)
Preceptor: Dr. Diane Damiano

#440. Anna Lyndaker
Longitudinal PET Analysis of Brain Glucose Metabolism in Virologically Suppressed People with HIV
Hamilton College (New York)
Preceptors: Dr. Dima Hammoud, Dr. Chuen-Yen Lau

#441. Katie Mackey
Characterization of Brain Tumors in a Model of Metastatic Breast Cancer Using CEST-MRI and Histopathology Techniques
Loyola University Maryland (Maryland)
Preceptors: Dr. Jennifer Lefeuvre, Dr. Joseph Frank

#442. Allison Manalo
Probing the Co-expression Matrix of Algesic and Analgesic Receptors in Rat and Human Dorsal Root Ganglion Neurons
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Andrew Mannes, Dr. Michael Iadarola

#443. Hailey Morris
M-Mode Ultrasound Imaging of the Diaphragm in Patients with Exercise Intolerance Post-SARS-CoV2 Infection: Practicality and Limitations
Haverford College (Pennsylvania)
Preceptors: Dr. Katharine Alter, Dr. Jay Shah
#444. Varun Naga
Towards Data Efficient Universal Lesion Detection with Self-training
Johns Hopkins University (Maryland)
Preceptors: Dr. Ronald Summers, Dr. Tejas Sudharshan Mathai

#445. Erik Paletzki
Abdominal Low-intensity Pulsed Ultrasound Moderates Pro-inflammatory Phenotype and Improves Therapeutic Outcomes of Murine 4T1 Breast Tumors
College of the University of Chicago (Illinois)
Preceptors: Dr. Parwathy Chandran, Dr. Joseph Frank

#446. Pooja Patel
Simultaneous MRI Image Annotation and Evaluation of a Lymph Node Detection Model through Concurrent Use by Radiologists
Saint Louis University (Missouri)
Preceptors: Dr. Tejas Mathai, Dr. Ronald Summers

#447. Alex Pelayo
Identification of Genomic Determinants Contributing to Cytokine Release in Immunotherapy and Human Disease
University of Redlands (California)
Preceptors: Dr. Ping Jin, Dr. David Stroncek

#448. Connor Phillips
Do Reaching Ability and Task-related EEG Brain Activation Measures Differ in Children with Bilateral Cerebral Palsy Compared to Those with Typical Development?
Arizona State University (Arizona)
Preceptors: Dr. Diane Damiano, - Christopher Stanley

#449. Trisha Ray
Characterization of an in situ-Forming Embolic Hydrogel for Endovascular Delivery of Therapeutic Agents to Liver Tumors
Cornell University (New York)
Preceptors: Dr. Andrew Mikhail, Dr. Bradford Wood

#450. David Regenold
Evaluation of Cardiac Function after SARS-Co-V2 Infection by Serial Echocardiograms
University of Maryland, College Park (Maryland)
Preceptor: Dr. Anthony Suffredini

#451. Vicki Remley
Optimizing a Fully Automated and Closed-system Process for Preparing Bone Marrow Cells for Transplantation
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Steven Highfill, Mr. Larry Moses

#452. Seynt Jiro Sahagun,
Evaluation of Pulmonary Function following SARS-CoV2 Infection
Colby College (Maine)
Preceptors: Dr. Anthony Suffredini

#453. Swathi Tata
Longitudinal Exploration of Postural Limits of Stability in Traumatic Brain Injury Patients
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Cristiane Zampieri-Gallagher
#454. Seth Warner
*Fostamatinib Reduces Neutrophil Activation and NETosis in Response to Bacterial Lipopolysaccharide*
Carleton College (Minnesota)
Preceptors: Dr. Jeffrey Strich, Dr. Marcos Ramos-Benitez

#455. Amy Yu
*Association between Caseload Surge Strain and Mortality Risk in Hospitals: A Scoping Review*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Sameer Kadri

**National Cancer Institute (NCI, Posters 456-508)**

#456. Rahul Kamdar
*NF-kappaB Signaling Regulates miRNA Expression in Ovarian Cancer*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Christina Annunziata, Dr.Brittney Harrington

#457. Aashni Kamra
*Investigating the Role of Metastasis-modifier Sipa1 in the Cellular Stress Response*
Gallaudet University (District of Columbia)
Preceptors: Dr. Christina Ross, Dr. Kent Hunter

#458. Joe Karboski
*Investigating the Potential of miRNAs as Personalized Medicine in Glioblastoma Multiforme*
St John Fisher College (New York)
Preceptor: Dr. Shuo Gu

#459. Farrah Karimipour
*Membrane-anchored IL-12 Improves Adoptive T-cell Therapy’s Capacity to Control Antigen-negative Tumors*
Florida State University (Florida)
Preceptor: Dr. Ling Zhang

#460. Miles Keats
*Characterizing the RAS Inhibitor MRTX1133*
University of California, Santa Barbara (California)
Preceptor: Dr. Ji Luo

#461. Courtney Ketchum
*DNA Methylation Classifier for Low-grade Gliomas*
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Zied Abdullaev

#462. Yeonju Kim
*ACROSS: Accrual and Access to neuRo-Oncology trialS in the united States*
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Orieta Celiku, Dr. Terri Armstrong

#463. Angela Kim
*A Novel Relationship between Small G Protein Arf1 and Arf GTPase-activating Protein (ASAP1)*
University of Minnesota, Twin Cities (Minnesota)
Preceptors: Dr. Katie Hebron, Dr. Marielle Yohe
#464. Jessy Kline
_Schwann Cells Contribute to the Osteosarcoma Tumor Microenvironment_
Washington University in St. Louis (Missouri)
Preceptor: Dr. Miranda Clements

#465. Shreya Kordale
_Genome-wide CRISPR Screening to Uncover Alternative Splicing Regulatory Networks_
University of Bristol (Non-U.S.)
Preceptor: Dr. Thomas Gonatopoulos-Pournatzis

#466. Manan Krishnamurthy
_Exploring the Binding Partners and Protein Dynamics of Tetrameric Glucocorticoid Receptor_
Tufts University (Massachusetts)
Preceptor: Dr. Gordon Hager

#467. Emily Krueger
_Assessing Diet Quality and Sustainability: Good for You and Good for the World?_
Brigham Young University (Utah)
Preceptors: Dr. Jill Reedy, Dr. Kirsten Herrick

#468. Samuel Kuo
_Investigating the Role of Sp8 in the Vertebrate Trunk-to-Tail Transition_
University of Miami (Florida)
Preceptors: Dr. Terry Yamaguchi, Dr. Ravi Chalamalasetty

#469. Jarod Labrador
_Elucidating the Role of B Cells in Graft versus Host Disease_
Iowa State University (Iowa)
Preceptors: Dr. Joe Nguyen, Mrs. Wendy Dubois

#470. Carolyn Lazaroff
_The Physiological Relevance of TIMP2 Dimer Formation_
Oregon State University (Oregon)
Preceptors: Dr. William Stetler-Stevenson, Dr. David Peeney

#471. Mariah Lee
_Tmc6 and Tmc8 Regulate CD51 Expression on Antigen-primed CD8+ T Cells to Generate Active TGF-β Required for Their Persistence_
Newberry College (South Carolina)
Preceptors: Dr. Lawrence Samelson, Dr. Hidehiro Yamane

#472. Hyun Kyung Lee
_Photo-activated Solid-to-Solid Phase Transition in Adenine Riboswitch Aptamer RNA Crystals_
Swarthmore College (Pennsylvania)
Preceptors: Dr. Yun-xing Wang, Dr. Jason Stagno

#473. Stephen Leyva
_Studyin Regulatory Genes involved in Tumorigenesis_
University of Maryland, College Park (Maryland)
Preceptor: Dr. Swati Choksi
#474. Tianyuzhou Liang
Influence of Engineered Long-acting Interleukin-7 on CAR T Cell Therapy in Liver Cancer
University of Maryland, College Park (Maryland)
Preceptors: Dr. Mitchell Ho, Dr. Dan Li

#475. Grace Lui
Combination Immunotherapy Strategies with CD4 Depleting Agents Targeting Solid Tumors
University of Maryland, College Park (Maryland)
Preceptors: Dr. Sofia Gameiro, Dr. Jeffrey Schlom

#476. Allen Luna
An Automated Normothermic Organ Perfusion Machine for the ex vivo Study of Resected Tumor-bearing Human Liver Segments
Vanderbilt University (Tennessee)
Preceptors: Dr. Jonathan Hernandez, Dr. Jacob Lambdin

#477. Katie Lund
Role of Gs in Keratinocyte Proliferation and Differentiation
Western Washington University (Washington)
Preceptor: Dr. Ramiro Iglesias-Bartolome

#478. Stephanie Lux
The Use of a Novel ex vivo Tumor Perfusion Model to Interrogate a TGF-Beta/PDL-1 Inhibitor
Cornell University (New York)
Preceptors: Dr. Jonathan Hernandez, Dr. Emily Verbus

#479. Evan Maestri
Spatial Dissection of Tumor Cell Communities in Hepatocellular Carcinoma
State University of New York at Buffalo (New York)
Preceptors: Dr. Xin Wang, Dr. Lichun Ma

#480. Siddhardha Maligireddy
In-vitro Abrogation of a Cryptic Exon in a Model of Hereditary Leiomyomatosis and Renal Cell Carcinoma
University of Texas at Dallas (Texas)
Preceptor: Dr. Pedro Batista

#481. Madhura Managoli
Evaluation of ONC206 Efficacy on Preclinical Models of Human Glioblastoma
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Jinkyu Jung, Dr. Mark Gilbert

#482. Samantha Marglous
Developing a DNA-barcoded Anti-glycan Antibody Library for Glycome Profiling
University of Chicago (Illinois)
Preceptor: Dr. Jeffrey Gildersleeve

#483. Alondra Martinez Osorno
Characterizing Human Myeloid Cell Subsets and Function in the Metastatic Tumor Microenvironment
Washington and Jefferson College (Pennsylvania)
Preceptors: Dr. Rosie Kaplan, Dr. James Cronk

#484. Robert Masi
Patient-derived Tumor Organoids as a Platform to Evaluate Adoptive Cell Therapies for Metastatic Cancers
#485. Mikaela Matera-Vatnick
*Elucidating Co-dependency Networks of mTOR Using a Genome-wide CRISPR/Cas9 Synthetic Lethality Screen in Cancer*
Cornell University (New York)
Preceptors: Dr. Beverly Mock, Dr. Joe Nguyen

#486. Elizabeth McCulla
*Tumor-derived Exosomal MicroRNAs Modulate Pericyte Pro-metastatic Phenotypes*
University of Delaware (Delaware)
Preceptor: Dr. Meera Murgai

#487. Tomi McGuire
*Remodeling of the Macrophage Compartment Driven by Chronic Type 1 Inflammation Protects against Tumor Development*
Northeastern University (Massachusetts)
Preceptor: Dr. Romina Goldszmid

#488. Yasmine Mian
*Single-cell Mapping of Enhancer-Promoter Interactions in Pancreas Cells Using High-throughput Imaging*
Arizona State University (Arizona)
Preceptor: Dr. Tom Misteli

#489. Ellis Miller
*40H3-Tesirine, a Novel Antibody-Drug Conjugate Targeting Overexpressed EGFR and EGFRvIII, Causes Bystander Killing in a Cell Co-culture Assay*
Colgate University (New York)
Preceptors: Dr. David Fitzgerald, Dr. Antonella Antignani

#490. Ethan Mondell
*Elucidating the Epigenetic Mechanisms Governing Pancreatic Neuroendocrine Tumor Differentiation*
University of California, Los Angeles (California)
Preceptors: Dr. Efsun Arda, Dr. Samira Sadowski

#491. Leandra Moukoudi Ndoko
*BRAF-MEK Inhibitor Ttherapy Induces Significant Antigenic Shift in Hairy Cell Leukemia*
Dickinson College (Pennsylvania)
Preceptors: Dr. Hao-Wei Wang, - Jeremiah Karss

#492. Daniel Moyer
*Circumventing Daratumumab (anti-CD38 Monoclonal Antibody) Antigen-masking Effects through Use of JK36 Nanobody in Flow Cytometric Assays*
St. Mary's College of Maryland (Maryland)
Preceptors: Dr. Hao-Wei Wang, Dr. Constance Yuan

#493. Tai Nguyen
*Functional Characterization of Genetic Variants in METTL14*
University of Washington (Washington)
Preceptor: Dr. Pedro Batista

#494. Kevin Nguyen
*Interaction between Prokaryotic Cytoskeletal Protein FtsZ and Chaperone Proteins Hsp70 and Hsp90*
University of Wisconsin-Madison (Wisconsin)
Preceptors: Dr. Sue Wickner, Dr. Patrick Needham

#495. Jibriel Noun
Clinical Patterns of Patients with ASAP/HGPIN in the MRI-US Fusion Guided Prostate Biopsy Era
University of Arizona (Arizona)
Preceptors: Dr. Peter Pinto, Dr. Michael Rothberg

#496. Amran Nur
Neuroimmune Modulation of Liver Tumors via Bethanechol
University of Minnesota (Minnesota)
Preceptors: Dr. Kylynda Bauer, Dr. Tim Greten

#497. Thomas On
Inflammatory IL34 Is Produced by Malignant Schwann Cells in NF1 Deficient Nerve Tumors
Arizona State University (Arizona)
Preceptors: Dr. Jack Shern, Dr. Xiyuan Zhang

#498. Tyler On
Amending Synthetic Separators to the Combinatorial Genome Editor CHyMERA
Arizona State University (Arizona)
Preceptor: Dr. Michael Aregger

#499. Belene Oudit
Applying CRISPR Transcriptional Activators for Multiplexed Genome Editing in Mammalian Cells
George Washington University (District of Columbia)
Preceptor: Dr. Michael Aregger

#500. Alexander Pan
Enhancing Detection of Early Stage Peripheral Nerve Sheath Tumors via Machine Learning over Multimodal Cell-free DNA Features
Reed College (Oregon)
Preceptor: Dr. Taylor Sundby

#501. Katherine Pasterczyk
Investigating the Post-transcriptional Regulation of Pioneer Transcription factor FOXA1 in Colorectal Cancer
Colgate University (New York)
Preceptor: Dr. Ashish Lal

#502. Abbigale Perkins
IrhA and rbsD: Two Genes Involved in the Translational Regulation of RpoS
Howard University (District of Columbia)
Preceptors: Dr. Susan Gottesman, Dr. Nadim Majdalani

#503. Emmanuel Perrodin-Njoku
Investigating the Role of Mutant Ctnnb1 in Breast Cancer Metastasis
Rochester Institute of Technology (New York)
Preceptors: Dr. Christina Ross, Dr. Kent Hunter

#504. Patricio Pichling Echevarria
The Employment of High-throughput Compound Screens to Discover Mechanisms That Regulate EWSR1 Expression
Johns Hopkins University (Maryland)
Preceptors: Dr. Soumya Sundara Rajan, Dr. Natasha Caplen
#505. Hannah Price  
*Evaluating the Efficacy of Kras G12C Inhibitors in Preclinical Models of Pediatric Solid Tumors*  
Spelman College (Georgia)  
Preceptor: Dr. Marielle Yohe

#506. Gabrielle Puller  
*Interaction between the E. coli Hsp90 Chaperone and CbpA, a J-domain Protein*  
Virginia Tech (Virginia)  
Preceptor: Dr. Sue Wickner

#507. Jonathan Qi  
*IL2 Regulates Differences In Liver Tregs between Mouse Strains*  
Stanford University (California)  
Preceptors: Dr. Tim Greten, Dr. Benjamin Green

#508. Alex Quan  
*Humanization of CAR T Cells Targeting GPC2 for Treatment of Neuroblastoma*  
University of California, Los Angeles (California)  
Preceptors: Dr. Mitchell Ho, Dr. Nan Li

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**National Institute of Biomedical Imaging and Bioengineering (NIBIB)**

#509. Rahul Akkem  
*Computer Aided Programming to Facilitate 3D Analysis of Fib-SEM Imaged Cells*  
Drexel University (Pennsylvania)  
Preceptor: Dr. Maria Aronova

#510. Yasmin Ali  
*A Transcriptomic Analysis of the Effect of 1, 2, and 5 Second Exposure Times of Pulsed Focused Ultrasound on Melanoma and Breast Tumors*  
Pennsylvania State University (Pennsylvania)  
Preceptors: Dr. Scott Burks, Dr. Joseph Frank

#511. Denzel Ryan Cruz  
*Comparison between FIB-SEM and SBF-SEM as Tools for 3D High Resolution Imaging*  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptor: Dr. Maria Aronova

#512. Kun Do  
*Lymphocytes' Dorsal Biomechanics and Its Role in Immunological Synapse Formation and Maintenance*  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Alexander Cartagena-Rivera

#513. Grant Kroeschell, Matthew Chaw, Johnny Bui  
*Generating a Four Dimensional Cell Atlas to Explore C. elegans Embryogenesis*  
Clemson University (South Carolina), Franklin & Marshall College (Pennsylvania), George Mason University (Virginia)  
Preceptors: Dr. Hari Shroff, Dr. Ryan Christensen

#514. Douglas Palumbo  
*Methodology for Rapid Segmentation of FIB-SEM 3D Image Data*  
College of William & Mary (Virginia)
Preceptors: Dr. Maria Aronova, Dr. Richard Leapman

#515. Zachary Player
Neuroradiologists' Perspectives on Using Quantitative Diffusion MRI in Clinical Practice
University of Florida (Florida)
Preceptor: Dr. Carlo Pierpaoli

#516. Chynna Smith
Actin Cortex Remodeling and Mechanics Underpin Paclitaxel Chemotherapy Sensitivity, Resistance, and Evolution in Ovarian Cancer Cells
Washington Adventist University (Maryland)
Preceptor: Dr. Alexander Cartagena-Rivera

National Cancer Institute (NCI, Posters 517-557)

#517. Jessica Rappaport
New Machine Learning Approach to Evaluate Brain Metastatic Burden in Preclinical Melanoma Models
University of Michigan - Ann Arbor (Michigan)
Preceptor: Dr. Romina Goldszmid

#518. Mahler Revsine
Single-cell Dissection of Liver Tumor Evolution in Response to Immunotherapy
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Lichun Ma, Dr. Xin Wang

#519. Sandy Reynolds
Induction of Immunogenic Cell Stress Enhances Tumor Sensitivity to Immune Mediated Killing
Prairie View A & M University (Texas)
Preceptor: Dr. James Hodge

#520. Samuel Ricci
Assessing Toxicity and Anti-tumor Activity of CD40 Agonist Antibody Combined with a Mesothelin-directed Immunotoxin in a Murine Pancreas Cancer Model
Rowan University (New Jersey)
Preceptor: Dr. Christine Alewine

#521. Jennifer Ritchie
Chemoproteomic Characterization of a Dual-warhead Covalent Ligand
Goshen College (Indiana)
Preceptor: Dr. Euna Yoo

#522. Kayla Roche
The Link between Psychological Distress and Survival in Solid Tumor Patients: A Systematic Review
Harvard College (Massachusetts)
Preceptors: Dr. Amanda King, Dr. Terri Armstrong

#523. Jeffrey Sagun
Different Germline Mutations in the XPA Gene Are Associated with Severe or Mild Neurodegeneration in Xeroderma Pigmentosum Patients
Trinity College (Connecticut)
Preceptors: Dr. Kenneth Kraemer, Dr. John DiGiovanna
#524. Andrew Saiz,
*Optimization of CRISPR Screens for the Non-coding Genome*
University of San Diego (California)
Preceptors: Dr. Joana Vidigal, Dr. Pedro Batista

#525. Noa Sasson
*Testing if the Transcriptional Activity of TFAP4 Is Required for Its Role in Potentiating Wnt Signaling*
University of California, Santa Barbara (California)
Preceptors: Dr. Andres Lebensohn, Dr. Myungjoo Shin

#526. Nahid A. Savan
*EV-Associated Proteins Downregulated in Proteasome Inhibitor Resistant Cancer Cell Lines*
Michigan State University (Michigan)
Preceptors: Dr. Snehal Gaikwad, Dr. Beverly Mock

#527. Ruby Schnirman
*Msgn1 May Regulate Mesodermal Progenitors to Coordinate Cell Fate Decisions and Axial Extension*
University of Chicago (Illinois)
Preceptor: Dr. Terry Yamaguchi

#528. Clara Seo
*Plasma ChIP-seq to Non-invasively Profile Prostate Cancer Epigenetics*
Amherst College (Massachusetts)
Preceptor: Dr. David Takeda

#529. Mira Sethi
*Induction of Antimicrobial Production in Pseudomonas aeruginosa in Response to Staphylococcus aureus*
Loyola University Chicago (Illinois)
Preceptor: Dr. Anupama Khare

#530. Shiv Sethi
*Harnessing Antiviral Immunity for Local Immunotherapy against Cutaneous Melanoma*
Carnegie Mellon University (New Jersey)
Preceptors: Dr. Nicolas Cuburu, Dr. John Schiller

#531. CANCELLED: Neel Shah
*Runx Proteins Are Necessary for the Initiation of the CD4 Transcriptomic Program*
Haverford College (Pennsylvania)
Preceptor: Dr. Rémy Bosselut

#532. Mia Spezia
*Immunostaining of Colon Spheroids*
Brown University (Rhode Island)
Preceptor: Dr. Ying Zhang

#533. Ryan Stanton
*A Novel C-To-U ssRNA Editor for MicroRNA Target Mapping*
Swarthmore College (Pennsylvania)
Preceptor: Dr. Shuo Gu

#534. Victoria Stepanyants
*CRISPR Editing to Target EBV Infection*
Johns Hopkins University (Maryland)
Preceptor: Dr. Laurie Krug

#535. Brian Stevens
*Embryonic Establishment of Lifelong Regenerative Abilities in the Planarian Schmidtea mediterranea*
Keene State College (New Hampshire)
Preceptor: Dr. Erin Davies

#536. Clover Stubbert
*Irradiation-based Assays to Study Stem Cell Behavior in Planarian Embryos*
California State University of Monterey Bay (California)
Preceptors: Dr. Erin Davies, Dr. Kayla Titialii-Torres

#537. Rebecca Su
*The Potential Deubiquitinating Role of SARS-CoV-2 Nsp3*
University of Colorado at Boulder (Colorado)
Preceptors: Dr. Yien Che Tsai, Dr. Allan Weissman

#538. Ian Sutton
*TTK Inhibition Provides Radioprotection Unique to Glioblastoma Stem Cells*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Phil Tofilon

#539. Kevin Tang
*Doxorubicin and Palbociclib Induces Exit to Senescence from S/G2 Phase in U2OS Cells*
Hunter College (New York)
Preceptors: Dr. Steven Cappell, Dr. James Cornwell

#540. Rachel Tavory
*Building a Mouse Model for Activated B-cell Diffuse Large B-cell Lymphoma*
Bucknell University (Pennsylvania)
Preceptor: Dr. Jagan Muppidi

#541. CANCELLED: Elise Travis
*An Assessment of Factors Influencing CDH1 Genetic Testing Uptake in At-risk Relatives*
Case Western Reserve University (Ohio)
Preceptors: Dr. Kathleen Calzone, - Grace-Ann Fasaye

#542. Joanne Unite
*What Is the Role of FGF Signaling in Vertebrate Pelvis Development?*
St. Mary's College of Maryland (Maryland)
Preceptors: Dr. Mark Lewandoski, Dr. Matthew Anderson

#543. Dana Van Fossen
*Shedding of Cell-surface Proteins Drives Tumor Metastasis*
Rowan University (New Jersey)
Preceptors: Dr. Zheng-Gang Liu, Dr. Peixing Wan

#544. Ivy Vien
*Identifying Tissue Origins of NKp46+ Innate Lymphoid Cells Involved in the Onset of Th17-induced Neuroinflammation*
University of Colorado Boulder (Colorado)
Preceptors: Dr. Vanja Lazarevic, Dr. Camille Spinner
#545. Madison Wahlsten  
*Deep Learning Immune Trajectories from Multiplexed Spectral Flow Cytometry*  
University of Michigan (Michigan)  
Preceptor: Dr. Grégoire Altan-Bonnet

#546. Xin Wang  
*Transcriptomic Analysis at the Single Cell Level during the Progression of Cholangiocarcinoma in a Murine Model*  
Colgate University (New York)  
Preceptor: Dr. Changqing Xie

#547. Matthew Watowich  
*Evaluating the Association between Peripheral Blood Immunologic Response and Therapeutic Response to Immune Checkpoint Inhibition in Patients with Newly Diagnosed Brain Cancers*  
Carleton College (Minnesota)  
Preceptors: Dr. Masashi Watanabe, Dr. Mark Gilbert

#548. Sarah Weltz  
*Deciphering Immunogenic Cell Death (ICD) and PD-L1 Regulation in Response to ClpP Agonist in Triple Negative Breast Cancer Cell Lines*  
Grinnell College (Iowa)  
Preceptors: Dr. Manjari Kundu, Dr. Stanley Lipkowitz

#549. Mikala Willett  
*The Role of Apoptosis during B Lymphocyte Development*  
Lee University (Tennessee)  
Preceptor: Dr. Christian Mayer

#550. Elena Wilson  
*WASP-mediated Actin Polymerization Regulates Stepwise T-cell Microcluster Assembly and Function*  
University of Illinois at Urbana-Champaign (Illinois)  
Preceptors: Dr. Larry Samelson, Dr. Lakshmi Balagopalan

#551. Anthony Wokasch  
*Testing the Effectiveness of a Novel Cytosine Analog and DNMT1 Inhibitor on the Treatment of MDS Using a Mouse Model*  
American University (District of Columbia)  
Preceptors: Dr. Peter Aplan, Dr. YangJo Chung

#552. Emily Wu  
*Developing Preclinical Mouse Models of Melanoma Brain Metastasis to Identify Efficacious Immunotherapies*  
American University (District of Columbia)  
Preceptors: Dr. Eva Perez-Guijarro, Dr. Glenn Merlino

#553. Jerry Wu  
*Dual Inhibition of FGFR4 and AKT or IGF1R Is Synergistic against Rhabdomyosarcoma*  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Javed Khan

#554. Yalan Wu  
*HUWE1 Regulates WNT Signaling through a Novel Mechanism That Requires Its Ubiquitin Ligase Activity*  
Boston University (Massachusetts)  
Preceptor: Dr. Andres Lebensohn
#555. Catherine Yu
*Characteristics of Cancer Epidemiology Studies That Employ Metabolomics: A Scoping Review*
Duke University (North Carolina)
Preceptor: Dr. Krista Zanetti

#556. Faris Zaibaq
*Acid Ceramidase Inhibition Exploits Sphingolipid Vulnerabilities in IDH Mutant Gliomas*
Texas A&M University (Texas)
Preceptor: Dr. Mioara Larion

#557. Allison Zeher
*CryoEM Structures of Mitochondrial and Bacterial Complex III in Complex with Pyramoxadone Reveal the Mechanism of Its Antimicrobial Activity Targeting Conserved Cellular Pathways*
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Rick Huang, Dr. Di Xia

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

#558. Jalen Brown
*Cancer Risk Factors for Transgender Individuals in the United Kingdom*
Georgia Institute of Technology (Georgia)
Preceptor: Dr. Sarah Jackson

#559. Camryn Cohen
*Racial and Ethnic Differences in Cervical Cancer Incidence and Mortality by Histologic Subtype*
Brandeis University (Massachusetts)
Preceptor: Dr. Megan Clarke

#560. Shrutikona Das
*Absolute Risk Estimation of Disease under Test-dependent Intermittent Observation: Potential Implications for Cancer Screening Guidelines*
Wellesley College (Massachusetts)
Preceptor: Dr. Li Cheung

#561. Nadine Dogbe
*Impact of BMI on Colorectal Cancer Trends in the US*
London School of Hygiene and Tropical Medicine (Non-U.S.)
Preceptor: Dr. Sonja Berndt

#562. Karen Funderburk
*Optimization of Computational Analysis Pipelines for Massively Parallel Reporter Assays of Cancer-associated Genetic Variants*
Arizona State University (Arizona)
Preceptors: Dr. Kevin Brown, Dr. Jiyeon Choi

#563. Rachel Hendricks
*Prevalence of Pathogenic Variants in Myeloid Malignancy Predisposition Genes: A Population-based Study of Both General and Cancer Cohorts*
Davidson College (North Carolina)
#564. Alexander Kane  
*Evaluating Functional Melanoma Variants and Target Genes Prioritized via MPRA and Multi-layer Features Using CRISPRi*  
Rutgers University (New Jersey)  
Preceptor: Dr. Jiyeon Choi

#565. Ixtaccihuatl Obregon  
*Hormone Receptor Status of Bilateral Breast Cancer in Individuals with Li-Fraumeni Syndrome*  
University of the Incarnate Word (Texas)  
Preceptors: Dr. Payal Khincha, Dr. Sharon Savage

#566. Hannah Raj  
*Possible Clinical Utility for TeSLA Mean and Shortest Telomere Length in Dyskeratosis Congenita*  
University of Illinois at Chicago (Illinois)  
Preceptors: Dr. Sharon Savage, Dr. Shahinaz Gadalla

#567. Timothy Ring  
*Bladder Cancer GWAS Signal at 4p16.3 Is Associated with Alternative Splicing of TMEM129 and Altered Surface HLA Profile*  
Georgetown University (District of Columbia)  
Preceptors: Dr. Rouf Banday, Dr. Ludmila Prokunina-Olsson

#568. Debi Smith  
*Risk-based Clinical Management of HPV-positive Women in Low Resource Settings*  
Drexel University College of Medicine (Pennsylvania)  
Preceptor: Dr. Mark Schiffman

#569. Ashley S. Thompson  
*De novo Experience of Individuals with Li-Fraumeni Syndrome: “Sometimes the People in your Family Are Never Going to Be the Ones Who Understand Best”*  
Bay Path University (Massachusetts)  
Preceptor: Dr. Allison Werner-Lin

#570. Mone't Thompson  
*Landscape and Challenges of Sarcomas in Li-Fraumeni Syndrome: The NCI Perspective*  
Bowie State University (Maryland)  
Preceptors: Dr. Payal Khincha, Mrs. Jessica Hatton

#338. Carolyn Brandt: MOVED FROM NCI  
*Disparities in Second Primary Cancer Risk among Breast Cancer Survivors in the United States by County-level Socioeconomic Status and Rurality*  
George Washington University (District of Columbia)  
Preceptor: Dr. Cody Ramin

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

#571. Maisie Ahern  
*The Role of Kv4.2 in Kainic Acid-induced Seizure Susceptibility and Neuronal Degeneration*  
University of California, Los Angeles (California)
#572. Layla Ahmadi  
**Therapeutic Potential of T-cell Receptor Tuning Molecules**  
DePauw University (Indiana)  
Preceptors: Dr. Teri Hatzihristidis, Dr. Paul Love

#573. Keith Ameyaw  
**Investigating The Role of Testicular Vasculature in Fertility**  
University of Massachusetts Boston (Massachusetts)  
Preceptors: Dr. Leah Greenspan, Dr. Brant Weinstein

#574. Brooke Arner  
**Metabolic Effects and Suppression of Obesity-induced Inflammation by Colchicine Treatment in High-fat Dieted Mice**  
Pennsylvania State University (Pennsylvania)  
Preceptor: Dr. Jack Yanovski

#575. Dhanya Asokumar  
**Interneuron Fate and Maturation in Ezh2 Mutant Mice**  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Timothy Petros, Dr. Pedro Rocha

#576. Diana Augustin  
**Associations of Race and Socioeconomic Status with Maternal Inflammation during Pregnancy**  
Carleton College (Minnesota)  
Preceptor: Dr. Stephen Gilman

#577. Sierra Ball  
**Placing a Spotlight on Protein Palmitoylation: A Post-translational Modification Executed by zDHHC Enzymes**  
Pepperdine University (California)  
Preceptors: Dr. Anirban Banerjee, Dr. Robbins Puthenveetil

#578. Felicia Benoit  
**Introducing Quality Control Measures to Zebrafish Cryopreservation**  
New York University (New York)  
Preceptor: Dr. Benjamin Feldman

#579. Elise Berning  
**Noninvasive Optical Characterization of Tissue Hemodynamics in Sickle Cell Patients Undergoing Treatment**  
University of Minnesota - Twin Cities (Minnesota)  
Preceptors: Dr. Bruce Tromberg, Dr. Timothy Quang

#580. Grace Biddle  
**Development of the dCas9-Repressor System in Danio rerio**  
University of Maryland, College Park (Maryland)  
Preceptor: Dr. Harold Burgess

#581. Sabrina Bouchard  
**Characterizing the Catalytic and Membrane Binding Domains of Legionella pneumophila Effector DenR**  
University of Massachusetts Boston (Massachusetts)  
Preceptors: Dr. Stephanie Lehman, Dr. Matthias Machner
#582. Kiersten Campbell
*Improving User Understanding of DESeq2 Model via Interactive Learning*
Williams College (Massachusetts)
Preceptor: Dr. Ryan Dale

#583. Si Jia Chen
*Two Structurally Similar Novel Neuropeptides with Potentially Important Roles in Stress Response*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Mihaela Serpe

#584. Jared Cunanan
*An Experimental Model System for Studying Trophoblast Fusion*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Leonid Chernomordik

#585. Tanvi Das
*Feasibility of the Six-minute Walk Test in Duchenne Muscular Dystrophy Studies*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Audrey Thurm, Dr. Jordan Wickstrom

#586. Megan Ezeude
*Characterizing the Roles of Rhoa Effectors in Zebrafish Vascular Integrity and Development*
Spelman College (Georgia)
Preceptors: Dr. Laura Pillay, Dr. Brant Weinstein

#587. Syeda Fatima
*Liraglutide in Adolescents after Vertical Sleeve Gastrectomy for Severe Obesity*
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Anna Zenno, Dr. Jack Yanovski

#588. Gus Fridell
*Challenges in Bioinformatics: QC and Replicating Old Methods*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Ryan Dale

#589. Austin Gable
*Layer by Layer: Differential Cellular Responses to Traumatic Brain Injury in Mouse Cortex*
University of Cincinnati (Ohio)
Preceptors: Ms. Mor Alkaslasi, Dr. Claire LePichon

#590. Theemeshni Govender
*Adolescent Substance Use Increases Risk for Suicide Plans and Attempts in Young Adulthood*
University of Oregon (Oregon)
Preceptor: Dr. Stephen Gilman

#591. Suryaa Gupta, Kaitlin Ballenger
*Energy Intake in Children and Adolescents and the Cortisol Awakening Response*
University of Illinois at Urbana-Champaign (Illinois), Georgetown University (District of Columbia)
Preceptor: Dr. Jack Yanovski

#592. George Holmes
*Mapping the Molecular Identity of the Zebrafish Mesopontine Tegmentum*
West Virginia University (West Virginia)
Preceptors: Dr. Harold Burgess, Dr. Ashwin Bhandiwad

#593. Tamar Jacobsohn
*Male Contraception Is Coming: Who Do Men Want to Prescribe their Birth Control?*
Northwestern University (Illinois)
Preceptor: Dr. Diana Blithe

#594. Arad Jain
*Investigating the Role of Liver Mc3r Expression in a Diet Induced Obesity Mouse Model*
University of Virginia (Virginia)
Preceptor: Dr. Jack Yanovski

#595. Sara Johnson
*Cognitive Flexibility and Repetitive Behaviors: Associations with Sub-clinical Obsessive Compulsive Disorder, Anxiety, Depression, and Autistic Traits*
Seton Hall University (New Jersey)
Preceptors: Dr. Emma Condy, Dr. Amir Gandjbakhche

#596. Vijay Joshi
*Expanding the Molecular Toolbox for Targeted Manipulations of Organelle Phospholipid Composition*
Emory University (Georgia)
Preceptors: Dr. Tamas Balla, Dr. Josh Pemberton

#597. Evelyn Liu
*Less Feeding to Soothe during Infancy and Healthier Home Food Environments Are Associated with Higher Child Diet Quality at Age One Year*
Cornell University (New York)
Preceptors: Dr. Tonja Nansel, Dr. Leah Lipsky

#598. CANCELLED: Lucy Loch
*Relative Reinforcing Value of Food and Metabolic Measures in Healthy Youth*
University of Michigan (Michigan)
Preceptor: Dr. Jack Yanovski

#599. William Martin
*A New Device to Improve COVID-19 Diagnostic Efficiency and Symptom Monitoring*
Grove City College (Pennsylvania)
Preceptor: Dr. Thien Nguyen

#600. Sarah Miller
*Mechanistic and Structural Investigation of HIV-1 Tat S-acylation*
Lafayette College (Pennsylvania)
Preceptors: Dr. Elliot Murphy, Dr. Anirban Banerjee

#601. Matthew Nebiyou
*The Role of DLK in Neuronal Protein Translation*
Towson University (Maryland)
Preceptor: Dr. Jorge Gomez-Deza

#602. Jacob Olondo Kuba
*Investigating the Host-specific Contributions of Predicted Amino Acid Transporters to Legionella Virulence*
University of Maryland, College Park (Maryland)
Preceptors: Dr. Katherine Bonnington, Dr. Matthias Machner
#603. Kristofor Pas
**MAP-MRI Automatic Cortical Parcellation of the Brain**
University of Texas at Arlington (Texas)
Preceptors: Dr. Peter Basser, Dr. Alexandru Avram

#604. Emily Petroni
*Characterization of B. burgdorferi Termination and RNA Regulators Using RNA-seq*
Harvey Mudd College (California)
Preceptor: Dr. Philip Adams

#605. Ashley Pratt
*Can Impaired Hippocampal Plasticity in a Mouse Model of Angelman Syndrome Be Recovered by Deletion of A-type Potassium Channels?*
Bates College (Maine)
Preceptors: Dr. Cole Malloy, Dr. Jia-Hua Hu

#606. Jack Prochnau
*Characterization of a Dual Activity trna Gene in Induction of a Type I Interferon Response*
University of Oregon (Oregon)
Preceptors: Dr. Richard Maraia, Dr. Sandy Mattijssen

#607. Kyle Rekedal
*High Throughput Detection of Small Protein Function via Transposon Insertion Site Sequencing (Tn-Seq)*
University of California, Merced (California)
Preceptors: Dr. Gisela Storz, Dr. Rilee Zeinert

#608. Catherine Rogers
*Shedding (Blue) Light on BMP Signaling in Zebrafish Embryos*
Stanford University (California)
Preceptor: Dr. Katherine Rogers

#609. Aditya Santoki
*Characterizing Mouse Models of Mutations in Sptlc1 That Cause ALS*
Duke University (North Carolina)
Preceptors: Dr. Claire Le Pichon, Ms. Zoe Piccus

#610. Erin Santos
*Myelin Plasticity under Sensory Deprivation*
Colgate University (New York)
Preceptor: Dr. R. Douglas Fields

#611. Katelin Scott
*Characterization of Exosomes Derived from NPC1 IPSC Neuronal Model*
DePauw University (Indiana)
Preceptor: Dr. Niamh Cawley

#612. Meegan Smith
*The Interplay of Subjective Social Status and Socioeconomic Status on Adolescent Eating Behaviors and Adiposity*
University of Michigan (Michigan)
Preceptors: Dr. Bobby Cheon, Dr. Julia Porth
#613. Hayli Spence
ErbB4 Null Mice Exhibit No Working Memory Impairment during the Trial-unique Nonmatch-to-Location (TUNL) Task
American University (District of Columbia)
Preceptors: Dr. Andres Buonanno, Dr. Eastman Lewis

#614. Daniel Tetreault
Discovery of Borrelia burgdorferi sRNAs Reveals an Important Regulator for Infection
Middlebury College (Vermont)
Preceptors: Dr. Philip Adams, Dr. Gisela Storz

#615. Tiara Tillis
Characterization of the Small Protein, ArcB-C
Swarthmore College (Pennsylvania)
Preceptors: Dr. Gisela Storz, Dr. Aisha Burton

#616. Vinay Veluvolu
DFFOCT as a Tool for Label-free Cell Viability Assessment and Classification
University of Maryland, College Park (Maryland)
Preceptor: Dr. Soongho Park

#617. Anna Vlachos
Somatostatin Interneuron Excitability and Circuit Pacing Are Regulated by Unconventional GluN1/3A Glycine-gated NMDARs throughout Development
American University (District of Columbia)
Preceptors: Dr. Chris McBain, Dr. Kenneth Pelkey

#618. Jacob Wagner, Elaine Zhou
Development of a Cartilage-targeting Growth Hormone Fusion Protein for the Treatment of Growth Disorders
University of Maryland, College Park (Maryland), Princeton University (New Jersey)
Preceptors: Dr. Julian Lui, Dr. Jeffrey Baron

#619. Jacqueline Welday
Developmental, Neurochemical and Behavioral Analyses of ErbB4 Cyt-1 Knockout Mice
University of Michigan (Michigan)
Preceptors: Dr. Andres Buonanno, Dr. Eastman Lewis

#620. Wendy Zhang
A Novel Role for Lupus La Protein in Hyperfusogenic Osteopetrosis
University of California, Santa Barbara (California)
Preceptor: Dr. Leonid Chernomordik

Thursday, April 28, 2022
National Center for Complementary and Integrative Health (NCCIH)

#621. Sabrina Barhoum
Associations between Mental Health, Substance Use, and Subjective Pain Measures
Muhlenberg College (Pennsylvania)
Preceptors: Dr. Julio Yanes, Dr. Lauren Atlas

#622. Barbara Benowitz
Zona Incerta Modulates Pain-associated Behaviors in Mice
Gettysburg College (Pennsylvania)
Preceptors: Dr. Sudhuman Singh, Dr. Yarimar Carrasquillo

#623. Jama Brookes
*How Social Cognition Influences Assessment of Pain through Facial Expressions*
Appalachian State University (North Carolina)
Preceptors: Mr. Troy Dildine, Dr. Lauren Atlas

#624. Tishiya Carey   NOTE: This presenter is actually from NCI.
*Clinical Outcomes in Elderly People Living with HIV and Cancer*
Washington University in Saint Louis (Missouri)
Preceptors: Dr. Ramya Ramaswami, Dr. Kathryn Lurain

#625. Sarah Chaudhry
*Pain-related Synaptic Plasticity in the Central Amygdala to Zona Incerta Pathway*
Michigan State University (Michigan)
Preceptors: Dr. Yarimar Carrasquillo, Dr. Sudhuman Singh

#626. Adela Francis Malave
*Sex Differences in Mouse Models of Colonic Pain*
University of Puerto Rico - Rio Piedras Campus (Puerto Rico)
Preceptor: Dr. Yarimar Carrasquillo

#627. Eleanor Goulden
*Premorbid Clinical Anxiety Predicts Pain following SARS-CoV-2 Infection*
Occidental College (District of Columbia)
Preceptors: Dr. Nicholas Madian, Dr. Brian Walitt

#628. Nwamaka Ijeh
*Does Peripheral Perfusion Interact with Pain Perception?*
Emory University (Georgia)
Preceptors: Dr. Eleni Frangos, Dr. David Shurtleff

#629. Monessha Jayabalan
*How Does Exposure to a Predator Cue Suppress Pain?*
American University (District of Columbia)
Preceptors: Mr. Donald Macdonald, Mr. Alexander Chesler

#630. Brendan Johns
*Examining Somatosensation of the Human Foot to Understand the Effects of Morton’s Neuroma*
Pennsylvania State University (Pennsylvania)
Preceptors: Ms. Eleni Frangos, Mrs. Ellen Staedtler

#631. Maya Joshi Delity
*Mental Health Outcomes for Different Chronic Pain Conditions during the COVID-19 Pandemic*
Boston University (Massachusetts)
Preceptors: Dr. Titilola Titilola Akintola, Dr. Lauren Atlas

#632. Benjamin Neugebauer
*Intrinsic Properties of Neurons in the Central Amygdala to Parabrachial Nucleus Pathway*
Texas Tech University (Texas)
Preceptor: Dr. Yarimar Carrasquillo
#633. Gabrielle O'Brien  
*Developing an Excitable Cell System for High-throughput Screening of the PIEZO2 Touch Receptor*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Alec Nickolls, Dr. Alex Chesler

#634. Julie Parsons  
*Social Influences on Reaction Time and Confidence during Judgements of Emotional Expressions*  
Lee University (Tennessee)  
Preceptors: Mr. Troy Dildine, Dr. Lauren Altas

#635. Haley Prakke  
*What Is the Role of Runx1 in Human Pain Perception?*  
University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Eleni Frangos, Dr. David Shurtleff

#636. Michelle Singh  
*Phenotyping Pain in Patients with Fibrous Dysplasia/McCune Albright Syndrome*  
George Washington University (District of Columbia)  
Preceptors: Dr. David Shurtleff, Dr. Eleni Frangos

#637. Jeitzel Torres Rodriguez  
*Central Amygdala-projecting Parabrachial Neurons Are Key Mediators of Injury-induced Hypersensitivity*  
University of Puerto Rico- Mayaguez Campus (Puerto Rico)  
Preceptor: Dr. Yarimar Carrasquillo

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

#638. Diana Abraham  
*Comparing the Impact of Busulfan Conditioning on Clonal Patterning with Total Body Irradiation following Rhesus Macaque Autologous Transplantation*  
New York University (New York)  
Preceptors: Dr. Cynthia Dunbar, Dr. Chuanfeng Wu

#639. Zahra Aligabi  
*Transgelin: A Key Player in LDL Endocytosis*  
George Washington University (District of Columbia)  
Preceptors: Dr. Alan Remaley, Dr. Diego Lucero

#640. Gregory Alspaugh, Shureed Qazi  
*Applications of Global Non-linear Least Squares to Metabolic Biosensing Using Fluorescence Lifetime Imaging Microscopy (FLIM)*  
Davidson College (North Carolina), University of North Carolina at Chapel Hill (North Carolina)  
Preceptor: Dr. Jay Knutson

#641. Kishan Avaiya  
*Prevalence of Monoallelic Variants in the Cystic Fibrosis (CFTR) and Primary Ciliary Dyskinesia (PCD)-associated Genes in a Nontuberculous Mycobacteria (NTM)-predominant Bronchiectasis Cohort*  
University of Florida (Florida)  
Preceptor: Dr. Kenneth Olivier
#642. Piroz Bahar  
Robust Online Calibration of a Linear Micro Tomosynthesis Scanner for Pathology Samples  
Harvard College (Massachusetts)  
Preceptor: Dr. Han Wen

#643. Alexander Berg  
A Pilot Study to Evaluate the S100 Family of Proteins and Lipid-rich Necrotic Core by Coronary computed Tomographic Angiography in Humans with Psoriasis  
University of California, Santa Cruz (California)  
Preceptor: Dr. Nehal Mehta

#644. Gil Berreby  
Impact of Immune Activation on Post-trauma Coagulopathy  
Johns Hopkins University (Maryland)  
Preceptor: Dr. Yogen Kanthi

#645. Lelia Boley  
Myosins and Miniguts: Investigating the Roles of Myosin II in Intestinal Epithelia  
Duke University (North Carolina)  
Preceptors: Dr. John Hammer, Dr. António Pedrosa, Dr. Chris Alexander

#646. Andrew Cameron  
Investigating the Role of Integrin Co-stimulation in B Cell Activation  
University of Notre Dame (Indiana)  
Preceptors: Dr. Jia Wang, Dr. John Hammer

#647. Katie Conners  
The Metabolic Vulnerability Index: A Novel Multimarker for Mortality Prediction in a Heart Failure Community Cohort  
Ohio State University (Ohio)  
Preceptor: Dr. Véronique Roger

#648. Jason Cunha  
Associations between Platelet Activation, Arterial Tonometry, Vessel Diameters, and Calcium Burden  
College of the Holy Cross (Massachusetts)  
Preceptor: Dr. Andrew Johnson

#649. Chiara Dart  
Constructing a Development Based Screening System to Identify Candidate tRNA Importer Genes in Dictyostelium discoideum  
University of Colorado at Boulder (Colorado)  
Preceptor: Dr. Hong Xu

#650. Paige Faasuamalie  
Antimicrobial Efficacy of Decamethoxin against Drug Resistant Mycobacterium abscessus Clinical Isolates  
Lafayette College (Pennsylvania)  
Preceptors: Dr. Kenneth Olivier, Dr. Shashank Gupta

#651. Anna Freitas  
Generation of a Mitochondrial Protein Compendium in Dictyostelium discoideum  
Pitzer College (California)  
Preceptor: Dr. Hong Xu
#652. Deanna Gaskin
Investigating the Impact of Non-myeloablative Hematopoietic Cell Transplantation on Organ Pathology in the Murine Model of Sickle Cell Disease
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Courtney Fitzhugh

#653. Jamie Harris
LncRNAs and Non-alcoholic Steatohepatitis: Characterizing a LncRNA That Modulates Tgfb Activation of Hepatic Stellate Cells
Duke University (North Carolina)
Preceptors: Dr. Yonghe Ma, Dr. Haiming Cao

#654. Gabriela Hinojosa
Assessment of Alterations in the Mitochondrial Calcium Uniport Complex in Cardiovascular Disease
University of California, Merced (California)
Preceptors: Dr. Elizabeth Murphy, Dr. Barbara Roman

#655. Vincent Hou
The TCA Cycle Intermediate α-Ketoglutarate Suppresses the Formation of Beating Pluripotent Stem Cell-derived Cardiomyocytes
Johns Hopkins University (Maryland)
Preceptor: Dr. Leslie Kennedy

#656. Loveth Igbineweka
The Off-target Effects of Transcription Inhibitors on Translation and mRNA Decay
Medgar Evers College (New York)
Preceptors: Dr. Bobby Hogg, Dr. Nazmul Haque

#657. Mariama Djelika Kabore
Low Dose Post-transplant Cyclophosphamide and Sirolimus Combined with Lymphocyte Depletion Induce Mixed Chimerism in MHC-mismatched Murine Allogeneic Hematopoietic Cell Transplantation
Virginia Tech (Virginia)
Preceptors: Dr. Courtney Fitzhugh, Dr. Xin Xu

#658. Nathan Kattapuram
Variability in Time to Peak Regadenoson-induced Coronary Hyperemia
University of Maryland, College Park (Maryland)
Preceptors: Dr. Marcus Carlsson, Dr. Ana Barac

#659. Janet Le
Bcl-2 Inhibitor and BTKis Increase Killing of CLL Cells Treated with CD3xCD20 bsAb
University of Texas at Austin (Texas)
Preceptors: Dr. Adrian Wiestner, Dr. Maissa Mhibik

#660. Katherine Lipsius
Vascular Smooth Muscle Cell-derived NGF Controls Sympathetic Collateral Branching to Innervate Blood Vessels in the Developing Skin.
University of Maryland, Eastern Shore (Maryland)
Preceptors: Dr. Wenling Li, Dr. Yosuke Mukoyama

#661. Ash Lee Manley
JAK 1/2 Inhibition with Ruxolitinib Improves Blood Counts and Prolongs Overall Survival in a Murine Model of Immune Bone Marrow Failure
Virginia Polytechnic Institute and State University (Virginia)
Preceptor: Dr. Xingmin Feng

#662. Brianna Matthew
Total Surface Area of Pulmonary Cysts Better Predicts the Diffusion Capacity of the Lung by Carbon Monoxide Than Volume-based Cyst Score in Patients with Lymphangioleiomyomatosis
Florida Institute of Technology (Florida)
Preceptor: Dr. Han Wen

#663. Rohan Meda
Donor-derived Cell-free DNA as a Marker for Lung Transplant Survival
Loyola University Chicago (Illinois)
Preceptor: Dr. Sean Agbor-Enoh

#664. Likitha Nimmagadda
The Effect of Mechanical Stretch on Elastin Expression in Rat Lung Fibroblasts
University of Michigan (Michigan)
Preceptor: Dr. Beth Kozel

#665. Lola Ortiz-Whittingham
Interferon Gamma-mediated Associations between Chronic Stress-related Neural Activity and PCSK9: Data from the Washington, D.C. Cardiovascular Health and Needs Assessment
University of Miami (Florida)
Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

#666. Robin Pashek
Alcohol Intake Including Wine Drinking Is Associated with Decreased Platelet Reactivity
Willamette University (Oregon)
Preceptor: Dr. Andrew Johnson

#667. John Pinion
Structural and Biochemical Insights of Peptide Bound Integrin a5B1
Clemson University (South Carolina)
Preceptors: Dr. Naoko Mizuno, Dr. Youngmin Soh

#668. Kameswari Potharaju
Epigenetic Clock ‘GrimAge’ Associates with Individual-level Socioeconomic Status in African-American Women
University of California, Berkeley (California)
Preceptor: Dr. Tiffany Powell-Wiley

#669. Rebeca Rodriguez
Establishing a Mechanism for OGFOD1 Prolyl Hydroxylation in Cardiomyocyte Differentiation
Liberty University (Virginia)
Preceptor: Dr. Leslie Kennedy

#670. Emily Ruiz Escobar
Comparing Whole Genome Technologies for Copy Number Detection in Williams Syndrome
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Beth Kozel

#671. Adrian Santana,
Physiologic Effects of Ovalbumin in a Mouse Model of Asthma
Johns Hopkins University (Maryland)
#672. Vivian Shing
*Exploring the Role of Mitochondrial Acetyl-CoA Acetyltransferase (ACAT1) on Histone Acetylation*
Duke University (North Carolina)
Preceptors: Dr. Jing Wu, Dr. Michael Sack

#673. Hannatu Tarfa
*Acceptability of a Mobile Application Using Place-tailored Messaging to Promote Physical Activity in Step-It-Up, a Digital Health-enabled Physical Activity and Cardiovascular Health Intervention*
Smith College (Massachusetts)
Preceptor: Dr. Tiffany Powell-Wiley

#674. Chelsea Truong
*Biochemically Distinguishing Cigarette Smokers from Nonsmokers by National Background among U.S. Latinos, 2007-2012 NHANES*
University of California, San Diego (California)
Preceptors: Dr. Eliseo Pérez-Stable, Dr. Erik Rodriguez

#675. Shravani Vatti
*Generation of Mouse Embryonic Stem Cell Derived Organoids to Model Vascular Remodeling after Chick Host Cardiovascular Connectivity*
Michigan State University (Michigan)
Preceptors: Dr. Yosuke Mukoyama, Dr. Will Kowalski

#676. Margo Williams
*Myosteatosis Associated with Clinical Outcomes and Mortality in Pulmonary Non-tuberculous Mycobacterial Disease*
University of Cambridge (Non-U.S.)
Preceptor: Dr. Kevin Fennelly

#677. Michaela Yamine
*Tools to Visualize Mitochondrial DNA Replication and Selection in *Drosophila melanogaster* Oogenesis*
University of Michigan (Michigan)
Preceptor: Dr. Hong Xu

#678. Alice Youle
*A Conserved Residue in the RNA Helicase UPF1 Dictates Trans-activation by UPF2*
Haverford College (Pennsylvania)
Preceptors: Dr. J. Robert Hogg, - Joseph Chapman

**National Institute of Allergy and Infectious Diseases (NIAID, Posters 679-731)**

#679. Sania Ali
*Infectious Clinical Phenotype of STAT3 Dominant-negative Disease*
Georgetown University (District of Columbia)
Preceptor: Dr. Alexandra Freeman

#680. Cameron Allen
*Sars-Cov-2 Infection of Lung Cells Induces Fibrin Clot Formation*
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Peter Sun
#681. Shuchi Amin, Chiara Micchelli
Examing Plasmodium falciparum Recrudescence after Artemisinin Treatment
University of Virginia (Virginia), Clemson University (South Carolina)
Preceptors: Dr. Juliana Sá, Dr. Thomas Wellems

#682. Elizabeth Bardwil-Lugones
Mapping Epitopes of Antibodies Elicited by Zika Virus Infection
Purchase College, SUNY (New York)
Preceptor: Dr. Theodore Pierson

#683. Breanna Beers
Family Matters: Examining Social Influences on Patients’ Genetic Testing Decisions
Cedarville University (Ohio)
Preceptor: Ms. Morgan Similuk

#684. Anne Berhe
Functional Characterization of B Cell Epitopes from the Placental Malaria Vaccine Candidate VAR2CSA
Pomona College (California)
Preceptors: Dr. Justin Doritchamou, Dr. Patrick Duffy

#685. Lila Berle
Characterization of Novel Sphagnum Bog Bacteria with Induced Antimycobacterial Activity
University of Rhode Island (Rhode Island)
Preceptor: Dr. Clif Barry

#686. Natalia Bettis
Multiplex Imaging to Reveal the Dynamics of MAVS-mediated Control of Ebola Virus Replication in Tissues
Howard University (District of Columbia)
Preceptors: Dr. Emily Speranza, Dr. Ronald Germain

#687. Andrea Biju
Base Glycan Covered SOSIP trimers Reduce Off-target Immune Response to HIV Envelope Base
University of California, San Diego (California)
Preceptors: Dr. Cheng Cheng, Dr. Hongying Duan

#688. Picabo Binette
Coxiella burnetii as an Expression Vector for SARS-CoV-2 Spike Protein: A Tool for the Study of Host-Pathogen Interactions
Washington College (Maryland)
Preceptors: Dr. Carrie Long, Dr. Paul Beare

#689. Abbie Bowman
Predictors and Mechanism of Glucocorticoid Resistance in Patients with Hypereosinophilic Syndrome
Johns Hopkins University (Maryland)
Preceptors: Dr. Amy Klion, Dr. Paneez Khoury

#690. Lauren Bowman
Analysis of T Cell Responses following SARS-CoV-2 Infection and Vaccination
Randolph-Macon College (Virginia)
Preceptor: Dr. Kristin Boswell
#691. Sabrina Bush
Neutralizing Class of Antibodies Target Novel Respiratory Syncytial Virus (RSV) Fusion (F)-Specific Antigenic Site
University of Northwestern - Saint Paul (Minnesota)
Preceptors: Dr. Maryam Mukhamedova, Dr. John Mascola

#692. Daniella Butler
Reactivity of Naturally Acquired Human Monoclonal Antibodies to P. falciparum Gamete Surface Antigen Pfs230 by Flow Cytometry
Grinnell College (Iowa)
Preceptors: Dr. Jonathan Renn, Dr. Patrick Duffy

#693. Vera Bzhilyanskaya
Gene Corrected X MEN Patient Cells Kill Tumor
University of Maryland, College Park (Maryland)
Preceptor: Dr. Suk See DeRavin

#694. Stephanie Calderon
New Method for CDC Assay Applied to COVID Patients
Amherst College (Massachusetts)
Preceptor: Dr. Ainhoa Perez-Diez

#695. Vivian Cao
GI Permeability as a Feature of Idiopathic Anaphylaxis
University of Pittsburgh School of Medicine (Pennsylvania)
Preceptor: Dr. Hirsh Komarow

#696. Anil Chakravorty
Investigating the Host Response to Influenza B Infection
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Allison Roder

#697. Amanda Chan
MAdCAM Costimulation Generates CCR5 plus Tissue Resident Memory CD4 plus T cells Susceptible to HIV Infection
University of California, Los Angeles (California)
Preceptors: Dr. James Arthos, Dr. Claudia Cicala

#698. Yan Cheng
Human G Protein-coupled Receptor 15 Mutations Lead to Inflammatory Bowel Disease
Swarthmore College (Pennsylvania)
Preceptors: Dr. Michael Lenardo, Dr. Jing Cui

#699. Jonathan Chu
Basal Ca2 ++ Efflux in Human Erythrocytes Is More Reliably Quantified with a Kinetic Fluorescence Assay Than Uptake
Rochester Institute of Technology (New York)
Preceptor: Dr. Sanjay Desai

#700. Benjamin Crews
Electron Microscopy of the Fibrin Network in the Anopheles gambiae Midgut and its Role in Malaria Infection
Whitworth University (Washington)
Preceptor: Ms. Elizabeth Fischer

#701. James Dahlvang
Fresh vs. Frozen: Differences in Rhesus Macaque Single-cell RNA Sequencing Signatures
#702. James Dal Santo  
Fusion Peptide-directed Serum Neutralization Enhanced by Simian-human Immunodeficiency Virus Inoculation in Prior Vaccinated Non-human Primates  
Elizabethtown College (Pennsylvania)  
Preceptor: Dr. Hua Wang

#703. Nathaniel De Jonge  
Novel NOX-2 Inhibitor Protects against Traumatic Brain Injury in a Mouse Model  
Amherst College (Massachusetts)  
Preceptor: Dr. Kol Zarember

#704. Shiva Deljookorani  
Molecular Mechanisms of IFN-g-dependent Cell Death in APECED: Regulation and Therapeutics  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Michail Lionakis, - Vasileios Oikonomou

#705. Luisa Dominguez  
Prevalence and Impact of the KIT M541L Mutation in Patients with Mastocytosis  
University of Texas at El Paso (Texas)  
Preceptors: Dr. Melody Carter, Dr. Dean Metcalfe

#706. Brandon D'Souza  
Transient Receptor Potential Ion Channels in Mouse Models of Atopic Dermatitis: Therapeutic Potential and Signaling Pathways  
Ohio State University (Ohio)  
Preceptors: Dr. Manoj Yadav, Dr. Ian Myles

#707. Rylee Duncan  
The Story of the Identical X: Characterizing the Psychological Phenotype in a 47, XXY Cohort  
University of Maryland, College Park (Maryland)  
Preceptor: Mrs. Morgan Similuk

#708. Bayan Duwaik  
Purification and Characterization of Human Respiratory Syncytial Virus Attachment Protein G Antigen for Antibody ELISAs  
University of California, Berkeley (California)  
Preceptors: Dr. Ursula Buchholz, Dr. Laura Ahlers

#709. Brent Edwards  
Wolbachia Mediated Changes in Lipid Metabolism Suppress Zika Virus Infection in Aedes albopictus Cells  
Middlebury College (Vermont)  
Preceptors: Dr. Denis Voronin, Dr. Elodie Ghedin

#710. David Espinoza  
Generation of an Induced Pluripotent Stem Cell Model to Evaluate Human Eosinophil Development  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Amy Klion, Dr. Gregory Constantine

#711. Samantha Fairlie  
Partial Gain-of-Function Variants in CACNA1H Link Hereditary alpha-Tryptasemia with Fibromyalgia  
University of Pittsburgh (Pennsylvania)
#712. Liron Fedida
_Investigating CTCF Mutations Associated with Neurodevelopmental Disorders_
Queens College, City University of New York (New York)
Preceptor: Dr. Emma Price

#713. Rachel George
_Piezo1 Mechanosensitive Calcium Channel Initiates B Cell Response to Membrane-associated Antigens_
Cornell University (New York)
Preceptors: Dr. Haewon Sohn, Dr. Susan Pierce

#714. Veronica Guirguis
_Broadly Neutralizing Alphavirus Antibody Mediates Early Protection during Ross River Virus Infection via FC Effector Functions_
University of Maryland, College Park (Maryland)
Preceptor: Dr. Julie Fox

#715. Hyungee Ha
_Measuring Dynamics of Inositol Trisphosphate (IP3) within Stimulated Neutrophil-like HL60 Cells Using FRET_
University of Maryland, College Park (Maryland)
Preceptors: Dr. Xuehua Xu, Dr. Tian Jin

#716. Darcy Harris
_Structure of a Human Antibody against AnAPN1 Reveals Conformational Plasticity in a Malaria Target Protein for a Transmission Blocking Vaccine_
Franklin & Marshall College (Pennsylvania)
Preceptor: Dr. Adam Olia

#717. Mitra Harrison
_Immunization of Rabbits with Newcastle Disease Virus-like Particles Highlights Critical Elements for HIV-1 Vaccine Immunogenicity and Durability_
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Kenta Matsuda, Dr. Mark Connors

#718. Ashley Heimann
_Enriched Isolation of hACE2-Blocking and Neutralizing COVID Antibodies_
Pennsylvania State University (Pennsylvania)
Preceptor: Dr. Rosemarie mason

#719. Lauren Heinzinger
_Antimicrobial Peptide Operon from Buruli Ulcer Associated Pathogen Identified in Dominant Commensal Skin Bacterium_
State University of New York at Buffalo (New York)
Preceptors: Dr. Baruch Hertzog, Dr. Michael Otto

#720. Maricarmen Hernandez
_High Throughput Screening for Small-molecule Regulators of MARCH1 to Modulate Type-I Interferon/Immune Responses_
University of Southern California (California)
Preceptors: Dr. Xinzhuang Su, Dr. Jian Wu

#721. Cole Honeycutt
_RBD-62 Protects against SARS-CoV-2 Delta Replication in Nonhuman Primates_
Duke University (North Carolina)
Preceptors: Dr. Daniel Douek, Dr. Matthew Gagne

#722. Anna Hostal
Functional Characterization of Antibodies to Epstein-Barr Virus Membrane Glycoproteins
Arizona State University (Arizona)
Preceptors: Dr. Wei Bu, Dr. Jeffrey Cohen

#723. Nina Howard
Single Cell RNA Sequencing Exploration of the Effect of Genetics and Environment on Immune Composition and Responsiveness in Rewilded Mice
University of Georgia (Georgia)
Preceptors: Dr. P'ng Loke, Dr. Oyebola Oyesola

#724. Colin Howe
HIV-1 Fusion Peptide (FP)-specific Binding Responses Are Reactivated by SHIV Infection in Vaccinated Non-human Primates
Middlebury College (Vermont)
Preceptor: Dr. Hua Wang

#725. Devin Hunt
Germline Variants in Cancer Predisposition Genes and Genes Associated with Nuclear DNA Repair in a Cohort of Early-onset Merkel Cell Carcinoma Patients
University of Montana (Montana)
Preceptors: Dr. Magdalena Walkiewicz, Dr. Isaac Brownell

#726. Kachi Isiofia
Quantitative Inactivation of Prion Seeding Activity Using Hypochlorous Acid
St. Joseph's College (New York)
Preceptors: Dr. Byron Caughey, Mr. Andrew Hughson

#727. Val Jackson-Hundley
Investigating the Function of AtxA, the Master Virulence Regulator of Bacillus anthracis
University of California, San Diego (California)
Preceptors: Dr. Andrei Pomerantsev, Dr. Stephen Leppla

#728. Makheni Jean Pierre
UBL5 Modulates Expression of Core TLR Pathway Genes in Human Macrophage Cells through Regulation of Alternative Splicing
Stony Brook University (New York)
Preceptors: Dr. Iain D.C. Fraser, Dr. Sinu P. John

#729. Julia Johnston
Identification of the Novel Human Serine Protease Sigma-Tryptase: A Gene Fusion Product at TPSB2
Brown University (Rhode Island)
Preceptor: Dr. Jonathan Lyons

#730. Madalyn Jones
Co-expression of the Transcription Factors Foxp3 and Helios Can Be Used to Define Human Tregs in vivo
Troy University (Alabama)
Preceptors: Dr. Maja Buszko, Dr. Ethan Shevach

#731. Ilin Joshi
MicroRNA-203 as a Mediator of Allergic Inflammation in a Model of Asthma
University of Minnesota Twin Cities (Minnesota)  
Preceptor: Dr. Kirk Druey

National Center for Advancing Translational Sciences (NCATS)

#732. Layla Al-Zubi  
*Identifying Synergistic Cisplatin-small Molecule Drug Combinations Using High-throughput Matrix Screening*  
Johns Hopkins University (Maryland)  
Preceptors: Dr. Matthew Hall, Ms. Dorian Cheff

#733. Brooklyn Aragon  
*Design and Synthesis of Glycine N-Methyltransferase Inhibitors*  
New Mexico Highlands University (New Mexico)  
Preceptors: Dr. Samarjit Patnaik, Dr. Vinoth Kumar Chenniappan

#734. Emma Carlson  
*Fluc-P2A-NLuc Coincidence Reporter in a β-thalassemia Model Engineered for Drug Development against Uncontrolled Non-sense Mediated Decay*  
University of Sheffield (Non-U.S.)  
Preceptors: Dr. James Inglese, Dr. Patricia Dranchak

#735. Sarah Gray Castle  
*Discovery of First-in-Class TRPML1 Agonists for the Treatment of Muscular Dystrophy and Efforts to Improve ADME*  
Davidson College (North Carolina)  
Preceptors: Dr. Juan Marugan, Mr. Raul Calvo

#736. Elizabeth Croll  
*Development of Dual IRAK/FLT3 Inhibitors for the Treatment of MDS and AML*  
Macalester College (Minnesota)  
Preceptor: Dr. Scott Hoyt

#737. Marissa Davies  
*A High-throughput aRPPA Assay to Characterize DUB Inhibitors in Hormone-dependent Cancers*  
University of Wisconsin-Milwaukee (Wisconsin)  
Preceptor: Dr. Natalia Martinez

#738. Hanna Greffie  
*High-throughput Screening for miRNA-based Therapy in Malignant Pleural Mesothelioma*  
University of Maryland, Baltimore County (Maryland)  
Preceptors: Dr. Sean Lin, Dr. Ken Cheng

#739. Natalie Hagen  
*Pharmacokinetics of NCGC00413972, a Potential Drug Candidate for Cancer Treatment*  
Drake University (Iowa)  
Preceptor: Dr. Amy Wang

#740. Muhammad Hatim  
*Characterization of Alagille syndrome (ALGS) Patient-derived Induced Pluripotent Stem Cells (iPSC)*  
University of Virginia (Virginia)  
Preceptor: Dr. Catherine Chen

#741. Isabella Jacobsen  
*Synthesis and Evaluation of Macrocyclic Peptide iPGM Inhibitors*
#742. Bruce Nguyen Tran
*High-throughput Confocal Imaging of Quantum Dot-conjugated SARS-CoV-2 Spike Trimers to Track Binding and Endocytosis in HEK293T Cells*
Johns Hopkins University (Maryland)
Preceptors: Dr. Catherine Chen, Dr. Wei Zheng

#743. Anita Ramanathan
*Identifying Small Molecule LC3 Binders for Autophagosome Targeting and Lysosomal Degradation*
University of Georgia (Georgia)
Preceptors: Dr. Mark J. Henderson, Dr. Tino Sanchez

#744. Tina Ryu
*Mitragynine UPLC-MS/MS Method Development and Preclinical Pharmacokinetics*
University of California, San Diego (California)
Preceptor: Dr. Amy Wang

#745. Cole Tindall
*Pan-cancer Multi-omic Data Analysis to Identify Signatures of Metastases*
Salve Regina University (Rhode Island)
Preceptor: Dr. Ewy Mathé

#746. Leah Wachsmuth
*Developing a High Throughput Assay to Investigate Compounds That Target Metastatic Prostate Cancer Using a Muscle Invasive Cell Model*
Dickinson College (Pennsylvania)
Preceptor: Dr. Mark Henderson

#747. Wenyu Zeng
*Predicting Severity Levels for COVID-19 Patients Using Clinical Characterization and Metabolomic Data*
George Washington University (District of Columbia)
Preceptor: Dr. Ewy Mathe

**National Human Genome Research Institute (NHGRI)**

#748. Kiana Amini
*Democratizing Education for Sickle Cell Disease Gene Therapy: A Deliberative Stakeholder Engagement Approach*
University of Chicago (Illinois)
Preceptor: Mr. Vence Bonham

#749. Elizabeth Andrews
*Self and Clinician-administered ISTH Bleeding Assessment Tools in the RUNX1 Patient Population: Next Steps*
Lehigh University (Pennsylvania)
Preceptor: Dr. Lea Cunningham

#750. Molly Behan
*Investigating Adeno-associated Viral Based Gene Complementation as Treatment for Hermansky-Pudlak Syndrome Pulmonary Fibrosis*
University of Rochester (New York)
Preceptors: Dr. May Malidcan, Dr. Bernadette Gochuico
#751. Thalia Billawala
*Development of a Functional Primary Hepatocyte Model of Fatty Liver in Kwashiorkor*
University of California, Davis (California)
Preceptor: Dr. Neil Hanchard

#752. Stefanie Brizuela
*Profiling DNA Methylation in Acute Myeloid Leukemia to Characterize Differential Splicing*
University of California, Santa Cruz (California)
Preceptors: Dr. Laura Elnitski, Dr. David Holland

#753. David Chang
*Application of Computer Vision to Facial Measurements in Propionic Acidemia*
Cornell University (Maryland)
Preceptor: Dr. Oleg Shchelochkov

#754. Chase Chen
*Investigation into the Pathophysiology of GBA1-associated Parkinson Disease Using Organelle-specific Proteomics*
Brandeis University (Massachusetts)
Preceptors: Dr. Yu Chen, Dr. Ellen Sidransky

#755. Jordan Connors
*A Genome Wide Association Study to Investigate Genetic Risk Modifiers of Leg Ulcers in Adults with Sickle Cell Disease*
University of North Carolina at Charlotte (North Carolina)
Preceptor: Dr. Joan Bailey-Wilson

#756. Alexis Darling
*Complexities in Creating a Working Definition for Secondary Findings*
Colorado State University (Colorado)
Preceptors: Ms. Julie Sapp, Dr. Leslie Biesecker

#757. Alana Davidson
*Health Behavior Adherence and Family Disclosure Outcomes following the Return of Secondary Findings*
Davidson College (North Carolina)
Preceptor: Ms. Julie Sapp

#758. Megan Detels
*Miransertib Increases Survival in Mice with Ubiquitous Expression of Akt1E17K*
Bates College (Maine)
Preceptors: Dr. Marjorie Lindhurst, Dr. Leslie Biesecker

#759. Nicholas Duncan
*Novel Mutations in PCCB: Murine Models of Propionic Acidemia*
California State University, Los Angeles (California)
Preceptors: Dr. Charles Venditti, Dr. Randy Chandler

#760. Jameson Floyd
*Return of Secondary Genomic Findings: Experiences of Sickle Cell Disease Research Participants*
Morehouse College (Georgia)
Preceptor: Mr. Vence Bonham

#761. Abigail Gebremariam
*Monitoring Disease Course with Non-metabolic Biomarkers in Methylmalonic Acidemia (MMA)*
Franklin & Marshall College (Pennsylvania)
Preceptor: Dr. Irini Manoli

#762. Toteona Gray
CLCN7 Mediated Lysosomal Hyper-acidification and Disordered Myelination: Organoid Functional Modeling
New Mexico State University (New Mexico)
Preceptors: Dr. May Malicdan, Dr. William Gahl

#763. Sunny Greene
Progressive Neurodegeneration and Associated Purkinje Cell Loss in a Murine Model of Chediak-Higashi Syndrome
Hollins University (Virginia)
Preceptors: Dr. May Christine Malicdan, Dr. William Gahl

#764. Caleb Grenko
Transcriptional Effects of Long-term Glucose Stimulation in Pancreatic Islets
Davidson College (North Carolina)
Preceptor: Dr. Leland Taylor

#765. Pauline Hoffman
Characterization of Combined Methylmalonic Acidemia and Homocystinuria, cblC type Mouse Models
Rensselaer Polytechnic Institute (New York)
Preceptors: Dr. Charles Venditti, Dr. Jennifer Sloan

#766. Mahin Hossain
Leveraging a Murine Model to Determine Tropism of Adeno-associated Viral Serotypes in Affected Tissues of Hermansky-Pudlak Syndrome
Ohio State University (Ohio)
Preceptors: Dr. Bernadette Gochuico, Dr. May Malicdan

#767. Tiffany Jong
Using Genome-wide Pooled CRISPRi Screen to Identify Genetic Modifiers of Gaucher Disease and Parkinson Disease
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Yu Chen, Dr. Ellen Sidransky

#768. Krystyna Keller
Unprecedented Experiences in Unprecedented Times: The impact of COVID-19 on Parents of Terminally Ill Children
Lafayette College (Pennsylvania)
Preceptor: Dr. Laura Koehly

#769. Jessica Lewis
A Renal Risk Score: Jackson Heart Study
Swarthmore College (Pennsylvania)
Preceptor: Dr. Sharon Davis

#770. Elizabeth Li
Implementing an Inducible CRISPRi Genome-wide Screen to Identify Genes Essential for Stem Cell-derived beta-Cell Differentiation
College of William and Mary (Virginia)
Preceptors: Dr. Francis Collins, Dr. Lori Bonnycastle

#771. India Little
Do Participants in Large-scale Genetic Studies Have Higher Genetic Literacy?
Davidson College (North Carolina)
Preceptor: Dr. Chris Gunter

#772. Simon Liu
*Applications of Deep Learning in Medical Genetics*
Johns Hopkins University (Maryland)
Preceptors: Dr. Dat Duong, Dr. Benjamin Solomon

#773. Luis Lopez
*Stigma and Social Networks: A Preliminary Investigation of the Impact of Stigma among Families Affected by Sickle Cell Disease*
Westminster College (Utah)
Preceptors: Dr. Laura Koehly, Dr. Olivia Matshabane

#774. Nashwa M Ahmed
*Comparative Genomics Reveals Niche-specific Heterogeneity in Skin-associated Corynebacteria*
Washington University in St. Louis (Texas)
Preceptors: Dr. Sean Conlan, Dr. Julie Segre

#775. Evanjelin Mahmoodi
*Entanglement Mapping: A Novel Machine Learning Method to Detect Epistatic Interactions between SNPs with High Power*
University of California, Santa Cruz (California)
Preceptors: Dr. Anthony Musolf, Dr. Joan Bailey-Wilson

#776. Emily Modlin
*Designing and Evaluating an Educational Material for Recipients of Genomic Secondary Findings: A Design Thinking Approach*
Davidson College (North Carolina)
Preceptor: Ms. Julie Sapp

#777. Molly Monge
*Development of a High-throughput Framework to Improve the Replicability of Molecular Biology Experiments*
Rensselaer Polytechnic Institute (New York)
Preceptor: Dr. Meru Sadhu

#778. Samuel Morris
*Mitochondrial Dysfunction and Oxidative Stress in Trisomic Neural Progenitor Cells*
Harvard University (Massachusetts)
Preceptors: Dr. Diana Bianchi, Dr. Sarah Lee

#779. Iman Mosley
*Prenatal Therapy for Down Syndrome: Assessing treatments for Cellular and Molecular Defects in T21 Neural Progenitor Cells*
Lehigh University (Pennsylvania)
Preceptors: Dr. Diana Bianchi, Dr. Sarah Lee

#780. Lindsey Mountcastle
*The Impact of Caregiving for Children With Genetically-linked Conditions on the Hypothalamic-Pituitary-Adrenal Axis: A Scoping Review*
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Melissa Zajdel, Dr. Laura Koehly
#781. Madeline Piper
_The Health Jargon Index: A Tool for Evaluating Jargon Use in Written and Verbal Communication_
West Virginia University (West Virginia)
Preceptor: Dr. Lori Erby

#782. Siri Ravuri
_Attitudes about Obesogenic Eating Behaviors_
University of Florida (Florida)
Preceptor: Dr. Susan Persky

#783. Taylor Robinson
_Experimental Treatments and Ethics: Exploring the Association between the Cultural Views and Treatment Knowledge of Rare Disease Caregivers_
Emory University (Georgia)
Preceptors: Dr. Dawn Lea, Dr. Laura Koehly

#784. Gaby Soden
_AAV Gene Therapy for Niemann-Pick Disease, Type C_
Davidson College (North Carolina)
Preceptors: Dr. Benjamin Epstein, Dr. Bill Pavan

#785. Onajia Stubblefield
_Resilience, Coping Mechanisms and the Impact of COVID-19 on Mental Health Outcomes in the All of Us Research Program_
University of Louisville (Kentucky)
Preceptor: Dr. Joshua Denny

#786. Sydney Telaak
_increasing Knowledge about Gene-environment Interactions Using Online Educational Vignettes_
Kenyon College (Ohio)
Preceptor: Dr. Susan Persky

#787. Elizabeth Thompson
_SARS-CO-V2 Antibody Status in Children with Mitochondrial Disease_
Washington and Lee University (Virginia)
Preceptor: Dr. Peter McGuire

#788. Amy Wang
_Heritability of Social Behaviors and Variants in Genes associated with Human Autism Spectrum Disorder in Rhesus macaques_
Brandeis University (Massachusetts)
Preceptor: Dr. Chris Gunter

#789. Rachi Willard
_Exploring Patient Narratives in Gene Therapy Trial Coverage_
University of Michigan (Michigan)
Preceptor: Mr. Vence Bonham

#790. Elizabeth Winnicki
_Human Pancreatic EndoC-BH3 Cells as a Model for Functional Evaluation of Insulin Secretion_
University of Southern California (California)
Preceptors: Dr. Francis Collins, Dr. Mike Erdos
#791. Faeben Wossenseged  
*Examining Sickle Cell Trait Associated Clinical Outcomes*  
University of California, Santa Barbara (California)  
Preceptor: Mr. Vence Bonham

#792. Vera Zanker  
*Reverse Phenotyping: A Case Example*  
Tufts University (Massachusetts)  
Preceptor: Dr. Clesson Turner

National Institute of Allergy and Infectious Diseases (NIAID, Posters 793-823)

#793. Katia Korzeniowsky  
*Identifying Pan-coronavirus Neutralizing Antibodies*  
University of Maryland, Baltimore County (Maryland)  
Preceptor: Dr. Rosemarie Mason

#794. Nikita Kozhushko  
*Development of a Novel Gene Therapy Strategy for XSCID Using base Editing Technology*  
University of Portsmouth (Non-U.S.)  
Preceptor: Dr. Suk See De Ravin

#795. Allie Kreitman  
*Modeling COVID-19 Disease Severity Using SARS-CoV-2 Single Nucleotide Variants*  
Colorado College (Colorado)  
Preceptors: Dr. Alexandra Mushegian, Dr. Elodie Ghedin

#796. Hailey Lachenauer  
*Ultrastructural Analysis of Murine Neonatal Esophagi Using Electron Microscopy Techniques*  
Montana State University (Montana)  
Preceptor: Mrs. Elizabeth Fischer

#797. Kyeisha Laurence  
*Investigating How Variation in Alpha Globin Gene Copy Number Affects Alpha Globin Gene Expression and Red Blood Cell Properties among Black Americans*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Steven Brooks, Dr. Hans Ackerman

#798. Kwonjae Lee  
*Role of the Galpha Subunit and C2GAP1 Interaction in cAMP-mediated Signaling Pathways of Chemotaxis in Dictyostelium discoideum*  
Northwestern University (Illinois)  
Preceptors: Dr. Xuehua Xu, Dr. Tian Jin

#799. Megan Levy  
*Effects of Codon-Pair-Deoptimization of Respiratory Syncytial Virus on Human Dendritic Cell Maturation*  
University of Maryland, College Park (Maryland)  
Preceptors: Dr. Ursula Buchholz, Dr. Cyril Le Nouen

#800. Samuel Li  
*Phage Immunoprecipitation Sequencing (PhIP-Seq) to Characterize Antigen Exposure for Pandemic Preparedness*
#801. Isabella Licavoli
*CCR5 Expression on CD4 positive T cells in Gut Tissues Is Upregulated by Retinoic Acid*
University of Michigan (Michigan)
Preceptors: Dr. James Arthos, Dr. Claudia Cicala

#802. CANCELLED: Tracy Liu
*Bispecific CAP256.J3LS Antibody with Expanded HIV-1 Neutralization Breadth*
Cornell University (New York)
Preceptor: Dr. Baoshan Zhang

#803. Sarah Lovelace
*B Cell Depletion Improves Assessment of HIV-1 bNAb Anti-viral Efficacy in vivo*
Trinity University (Texas)
Preceptor: Dr. Amarendra Pegu

#804. Maggie Lucas
*High-throughput Single Genome Sequencing to Understand SARS-CoV-2 Within-Host Evolution*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Eli Boritz, Dr. Sung Hee Ko

#805. Rosa Mallorson
*The Myeloid-specific Transcription Factor PU.1 Regulates Expression of Mannose Receptor 1 in Macrophages by Binding to Two Target Sites in the MRC1 Promoter*
Colorado College (Colorado)
Preceptor: Dr. Klaus Strebel

#806. Julia Marshall
*Incidence of Nontuberculous Mycobacteria Infections among Persons with Cystic Fibrosis in the United States (2010-2019)*
Duke University (North Carolina)
Preceptors: Dr. Rebecca Prevots, Dr. Ettie Lipner

#807. Jobel Matriz
*Optimized Scratch Assay in Human Keratinocytes*
University of Hawaii at Manoa (Hawaii)
Preceptors: Dr. Portia Gough, Dr. Ian Myles

#808. Genevieve McCormack
*Reinfection With Sars-Cov-2 among Previously Infected and Vaccinated Individuals*
State University of New York at Geneseo (New York)
Preceptors: Dr. Susan Moir, Dr. Michael Sneller

#809. Lauren McCormick
*B Cell Responses to mRNA-1273 Heterologous Boost Regimens*
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Noemia Santana Lima

#810. Jordan McMurry
*gp120 Binding to CD4 Domain 1 Is Sensitive to Allosteric Regulation by CD4 Domain 2 mAbs*
Trinity University (Texas)
#811. Christopher Mederos
*Characterizing Two Recombinantly Expressed Putative Lipid Binding Proteins Secreted by Brugia malayi in Its Human Host*
Florida International University (Florida)
Preceptor: Dr. Elodie Ghedin

#812. Chiara Micchelli, Shuchi Amin
*Characterization of Plasmodium falciparum Subcellular Structures and Their Interactions in Artemisinin-induced Dormancy*
Clemson University (South Carolina), University of Virginia (Virginia)
Preceptors: Dr. Juliana Sá, Dr. Thomas Wellems

#813. Madison Mixer
*Making the Invisible Visible: Understanding What’s Helpful in Learning to Live with an Inborn Error of Immunity*
Colgate University (New York)
Preceptor: Mrs. Morgan Similuk

#814. Page Murray
*Prostaglandin E2 Signaling on Macrophages Is Protective against Colitis*
University of Virginia (Virginia)
Preceptor: Dr. Brian Kelsall

#815. Sara Nibar
*Biophysical Risk Assessment of a Tri-specific Antibody*
Coastal Carolina University (South Carolina)
Preceptors: Dr. Ben Clarkson, Dr. Lisa Kueltzo

#816. Grace Okpali
*Anti-α-Gal IgE Response in Humans Exposed to Ixodes scapularis Larval Ticks*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Adriana Marques

#817. Danealle Parchment
*Altering Fusion Peptide (FP) Length during Priming in FP Prime and Trimer Boost Regimen Improves FP-Directed HIV Neutralization Potency and Breadth*
Washington University in St. Louis (Missouri)
Preceptor: Dr. Cheng Cheng

#818. Sophia Park
*Characterization of Cell Death Mechanism in NEMO Exon 5 Skipping*
University of Virginia (Virginia)
Preceptors: Dr. Bin Lin, Dr. Raphaela Goldbach-Mansky

#819. Walker Payne
*Electron Microscopy Analysis and Biochemical Preparation of Influenza Vaccine Antigens*
Washington and Lee University (Virginia)
Preceptors: Dr. Audray Harris, Dr. John Gallagher

#820. Victoria Peluf
*Early Crosstalk between IFN-gamma-producing and -responding Cells Is Required for Host Protection against Toxoplasma gondii Infection*
Colgate University (New York)
Preceptors: Dr. Dragana Jankovic, Dr. Kerry Hilligan

#821. Nicolas Pereira
Effects of Aspergillus fumigatus Alkaline Protease 1 (alp1) on Airway Smooth Muscle Functions in Fungal Asthma
University of Michigan (Michigan)
Preceptor: Dr. Kirk Druey

#822. Lowrey Peyton
Longitudinal Single-cell Analysis of the Immune Response to Moderna mRNA-1273 Vaccination against SARS-Cov-2
Virginia Polytechnic Institute and State University (Virginia)
Preceptors: Dr. Daniel Douek, Dr. Chaim Schramm

#823. Samantha Provost
Identifying Unconventional T Cell Populations in Non-human Primates in Mycobacterium tuberculosis Vaccines Studies Using Flow Cytometry
Wake Forest University (North Carolina)
Preceptors: Dr. Kathryn Foulds, Ms. Mitzi Donaldson

National Institute of Minority Health and Health Disparities (NIMHD)

#824. Camryn Edwards
Skin Color Discrimination and Prevalent CVD among African American Participants in the Jackson Heart Study
University of Maryland, College Park (Maryland)
Preceptor: Dr. Allana Forde

#825. Koya Ferrell
Perceived Care in Adolescence and Its Impact on Health Behaviors of US Adults
Georgetown University (District of Columbia)
Preceptor: Dr. Sharon Jackson

#826. Kiana Hacker
Hearing about and Having Concern for Police Brutality and Changes in Cigarette Use across U.S. Racial/Ethnic Groups
University of Maryland, College Park (Maryland)
Preceptor: Dr. Kelvin Choi

#827. Phillip Hegeman
A Prospective Natural History Study of COVID-19 Using Digital Wearables: Design and Implementation
University of Missouri - Columbia (Missouri)
Preceptor: Dr. Sherine El-Toukhy

#828. Judy Nanaw
Racial/Ethnic Differences in the Association between Distrust in the U.S. Healthcare System and Unwillingness to Test for and Vaccinate against COVID-19
George Mason University (Virginia)
Preceptor: Dr. Allana Forde

#829. Cameron Ormiston
Association between COVID-19-related Depression and Discrimination among Asian and Pacific Islander Adults
University of California, San Diego (California)
Preceptors: Dr. Faustine Williams, Dr. Francisco Alejandro Montiel Ishino
#830. Stephanie Ponce
Rice University (Texas)
Preceptors: Dr. Anna Nápoles, Dr. Paula Strassle

#831. Stephanie Quintero
Race-specific Effects of Breastfeeding Information on Breastfeeding Initiation and Duration: An Analysis of the Pregnancy Risk Assessment Monitoring System
Dartmouth College (New Hampshire)
Preceptors: Dr. Anna María Nápoles, Dr. Paula Strassle

#832. Charlotte Talham
Food Security and Mental Health during the COVID-19 Pandemic
University of Florida (Florida)
Preceptor: Dr. Faustine Williams

#833. Kevin Villalobos
The Association between Discrimination and Hispanic/Latino Ethnicity and Its Impact on Mental Health during the COVID-19 Pandemic
California State University, Los Angeles (California)
Preceptors: Dr. Faustine Williams, Dr. Francisco Montiel Ishino

#834. Miciah Wilkerson
University of Illinois at Urbana-Champaign (Illinois)
Preceptors: Dr. Anna Nápoles, Dr. Paula Strassle

#835. Gabrielle Zuckerman
“☆☆☆☆”: Assessing the Usability of QuitGuide Smoking Cessation Mobile Applications
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Sherine El-Toukhy

National Institute of Allergy and Infectious Diseases (NIAID, Posters 836-866)

#836. Guillermo Raimundi Rodriguez
Antibody Responses to Dengue Virus in recipients of the VRC Zika DNA Vaccine in Dengue-endemic and Non-endemic Areas
University of Puerto Rico at Mayagüez (Puerto Rico)
Preceptor: Dr. Leah Katzelnick

#837. Yvonne Rangel Gonzalez
Salivary Antigens of Ixodes scapularis as Prospects for Human Biomarker of Tick Exposure
University of California, San Diego (California)
Preceptors: Dr. Jesus Valenzuela, Dr. Eva Iniguez

#838. Collin Reimer
An Analytical Approach to Hemolysin-BL Enterotoxin Structure Formation of Bacillus cereus
University of Toledo (Ohio)
Preceptor: Dr. Stephen Leppla
#839. Jade Riopelle
Artibeus jamaicensis Bats as a Reservoir Host Model for SARS-CoV-2 Infection
Stanford University (California)
Preceptor: Dr. Julia Port

#840. Rebeca Rivera-Dompenciel
Ruxolitinib Down-regulates STAT3 Expression Levels to Inhibit Mast Cell Activation
University of Puerto Rico- Mayagüez (Puerto Rico)
Preceptor: Dr. Jonathan Lyons

#841. Abigail Salancy
Role of Soluble Glycosaminoglycans in Infection of Macrophages by Cytomegalovirus
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Philip Murphy, Dr. Sergio Pontejo

#842. Roberto Salas
Defining Biomarkers of Exposure to Aedes aegypti as a Tool to Mitigate Arbovirus Outbreaks
University of Texas at El Paso (Texas)
Preceptor: Dr. Luiz Oliveira

#843. Sharada Saraf
Differential Antibody Production by Symptomatology in SARS-CoV-2 Convalescent Individuals
University of California, San Diego (California)
Preceptor: Dr. Oliver Laeyendecker

#844. Taylor Saturday
Assessing the Humoral Immune Response to SARS-CoV-2 in Human and Hamster
Montana State University (Montana)
Preceptor: Dr. Neeltje van Doremalen

#845. Yuna Seo
A Virus-Like Particle (VLP)-forming mRNA HIV-1 Vaccine Induces Neutralizing Antibodies in Mice
Cornell University (New York)
Preceptors: Dr. Paolo Lusso, Dr. Peng Zhang

#846. Hannah Shrader
Ex vivo Assay Allows Analysis for HIV-1 Resistance Signatures of CD4 Binding Site bNAbs
University of Iowa (Iowa)
Preceptors: Dr. Sabrina Helmold Hait, Dr. Amarendra Pegu

#847. Jacquelyn Spathies
Mass Spectrometry Imaging Reveals the Metabolic state of Healing cells
Eastern Illinois University (Illinois)
Preceptor: Dr. Ian Myles

#848. Allie Stamper
Development of a Recombinant Vesicular Stomatitis Virus Vaccine for Crimean-Congo Hemorrhagic Fever Virus
University of Alabama at Birmingham (Alabama)
Preceptor: Dr. David Hawman

#849. Regan Stradtmann-Carvalho
Identifying Influenza Epitopes: Mapping the Binding Footprint of a Monoclonal Antibody
#850. Lui Suzuki-Williams
*Comparison of SARS-CoV-2 Spike Protein-Specific Antibody-Dependent Cellular Cytotoxicity Activity in Plasma of COVID-19 Patients and Healthy Vaccine Recipients*
Johns Hopkins University (Maryland)
Preceptors: Dr. Audray Harris, Mrs. Mallory Myers

#851. Brendan Sweeney
*Plasmodium falciparum Enolase and Pfs47 Serve as Plasminogen and tPA Co-receptors*
Loyola University Chicago (Illinois)
Preceptor: Dr. Joel Vega-Rodriguez

#852. Hubza Syeda
*Immunogenicity of a Novel Influenza Vaccine Candidate Flumos-v1 with Adjuvants*
Drexel University (Pennsylvania)
Preceptors: Dr. Seyhan Boyoglu-Barnum, Dr. Masaru Kanekiyo

#853. McKella Sylvester
*Th9-Endothelial Crosstalk Promotes Cardiovascular Disease in Psoriasis Patients*
Colgate University (New York)
Preceptor: Dr. Daniella Schwartz

#854. Chloe Adrienna Talana
*Evaluating the Binding of SARS-CoV-2 Directed Antibodies to Cell Surface Expressed SARS-CoV-2 Spike Glycoprotein Derived from Emerging Variants of Concern*
Chaminade University of Honolulu (Hawaii)
Preceptor: Dr. Amarendra Pegu

#855. Mahelat Tesfamariam
*Identification and Functional Analysis of Coxiella burnetii Dugway Strain-specific Type IV Secretion System Effector Proteins*
Georgia State University (Georgia)
Preceptor: Dr. Carrie Long

#856. Travis Terry
*Potent and Durable Neutralizing Activity of Intramuscular AAV8-Vectored VRC07 in HIV-1-Infected Patients*
University of Richmond (Virginia)
Preceptor: Dr. Evan Cale

#857. Marc Theberge
*Optimization of HIV-1 DNA Quantification in the QIAcuity Digital PCR System*
Tulane University (Louisiana)
Preceptors: Dr. Mohammad Abu-Laban, Dr. Eli Boritz

#858. Evelien van Gelderen
*Post-SARS-CoV-2 Vaccine Monitoring of Disease Flares in Autoinflammatory Diseases*
Swarthmore College (Pennsylvania)
Preceptor: Dr. Sara Alehashemi

#859. Freya van’t Veer
*Pre-clinical Immunogenicity of an Intranasal Adenovirus type 4-vectored SARS-CoV-2 Vaccine*
#860. Katherine Wahl
*Exploring T cell Clonotype Frequency and Related HLA Binding Affinities*
Vanderbilt University (Tennessee)
Preceptors: Dr. Jinghua Lu, Dr. Peter Sun

#861. Rebecca Walker
*Characterizing the Role of a Naturally Occurring Deletion in the IRES of PV1 throughout Its Lifecycle*
Wake Forest University (North Carolina)
Preceptor: Dr. Patrick Dolan

#862. Christiana Wang
*Activation of Human Natural Killer Cells through Soluble HLA-G*
Case Western Reserve University (Ohio)
Preceptors: Dr. Sumi Rajagopalan, Dr. Eric Long

#863. Zachary Weishampel
*OraSure InteliSwab™ Rapid Antigen Test Performance with the SARS-CoV-2 Variants of Concern—Alpha, Beta, Gamma, Delta, and Omicron*
Duke University (North Carolina)
Preceptor: Dr. Claude Kwe Yinda

#864. Neil Yang
*Elucidating the Role of Helios in CD4+Foxp3- T Cells*
Case Western Reserve University (Ohio)
Preceptors: Dr. Ethan Shevach, Dr. Angela Thornton

#865. Micah Young
*Combating Malaria Transmission by Engineering Transgenic Mosquitoes*
University of Georgia (Georgia)
Preceptors: Dr. Alvaro Molina-Cruz, Dr. Carolina Barillas-Mury

#866. Alec Zhan
*Channeling in Protein Translation and Antigen Presentation: A Semi-intact Cell Model*
Georgia Institute of Technology (Georgia)
Preceptor: Dr. Jon Yewdell

National Institute of Dental and Craniofacial Research (NIDCR)

#867. Mehdi Abed
*The Role of cGAS-STING Pathway Activation in Sjögren’s Disease: Driver of IFN production and Putative Therapeutic Target*
University of Virginia (Virginia)
Preceptors: Dr. Blake Warner, Dr. Shyh-Ing Jang

#868. James Ball
*Loss of 3-O Sulfotransferase enzymes, Hs3st3a1 and Hs3st3b1, Affects Kidney Glomeruli Architecture and Reduces Kidney Function*
University of Missouri - Columbia (Missouri)
Preceptors: Dr. Matthew Hoffman, Dr. Vaishali Patel
#869. Kapsa Bengyella
*Functional Characterization of PSDC Neurons in Touch and Mechanical Allodynia*
Mercer University (Georgia)
Preceptor: Dr. Yuanyuan Liu

#870. Robin Black
*Characterization of the Transcriptome of the Drosophila Larval Salivary Gland at a Single-cell Resolution*
University of Oregon (Oregon)
Preceptor: Dr. Kelly Ten Hagen

#871. Hannah Brooks
*Fibroblast Activation in Periodontitis: "Going with the Flow"*
University of North Carolina at Greensboro (North Carolina)
Preceptor: Dr. Niki Moutsopoulos

#872. Margaret Cassidy
*Loss of Small Diameter Sensory Neurons in human Dorsal Root Ganglia of Individuals Affected by Diabetic Neuropathic Pain*
Vanderbilt University (Tennessee)
Preceptor: Dr. Ashok Kulkarni

#873. Aliona Chernish
*Barcoding the Cell Surface Glycans Reveals Glycan Structures at Single-cell level*
Boise State University (Idaho)
Preceptors: Dr. Weiming Yang, Dr. Lawrence Tabak

#874. Abbie Collette
*GalNAc-T1 Activity and Substrate Selectivity Are Influenced by Two Active Carbohydrate-binding Repeats*
Mount Holyoke College (Massachusetts)
Preceptor: Dr. Nadine Samara

#875. Amy-Claire Dauphin
*Investigation of the Salivary Gland Cell Populations in Drosophila melanogaster*
Oakwood University (Alabama)
Preceptors: Dr. Liping Zhang, Dr. Zulfeqhar Syed

#876. Katelin Devine
*Investigating Longitudinal Craniofacial Development in Loeys-Dietz Syndrome Type 2*
Rutgers University (New Jersey)
Preceptor: Dr. Olivier Duverger

#877. Catharine Dietrich
*Changes in Immune Cell Infiltration Impact the Repair of Large-scale Bone Defects following Murine Rib Resection*
Stevenson University (Maryland)
Preceptor: Dr. Luciana Yamamoto De Almeida

#878. Kalie Dominick
*NR4A3 Translocation Drives Wnt Pathway Dysregulation in Acinic Cell Carcinoma*
Syracuse University (New York)
Preceptor: Dr. Blake Warner
#879. Megan Doty
*Integrative Multi-omics Approach to Investigating Diabetic Neuropathic Pain in Dorsal Root Ganglia*
University of Wisconsin-Madison (Wisconsin)
Preceptor: Dr. Ashok Kulkarni

#880. Hannah Geller
*Unraveling the Plasticity of Neural Crest Cells*
Yale University (Connecticut)
Preceptors: Dr. Karla Barbosa-Sabanero, Dr. Laura Kerosuo

#881. Emily Hand
*Partial Characterization of a Broad Spectrum Antimicrobial Derived from the Human Microbiome*
University of Wisconsin-Oshkosh (Wisconsin)
Preceptor: Dr. Akintunde Emiola

#882. Lauren Hayashi
*Molecular Identification of Neuronal Ensembles of Mechanical Allodynia in the Spinal Dorsal Horn*
Brandeis University (Massachusetts)
Preceptor: Dr. Yuanyuan Liu

#883. Ayesha Javaid
*Quantitation and Characterization of the Immune Cell Response within COVID Toe Lesions*
Georgetown University (District of Columbia)
Preceptors: Dr. Jacqueline Mays, Dr. Ana Costa da Silva

#884. YongGuang Jiang
*Role of Fibrinolysis in Hematopoietic Recovery after 5-Fluorouracil Treatment*
Cornell University (New York)
Preceptors: Ms. Munasinghage Silva, Mr. Thomas Bugge

#885. Tianming Li
*Molecular Characterization of Spinoparabrachial Neurons in Ascending Circuits Modulating Somatosensation and Pain*
University of Maryland, College Park (Maryland)
Preceptor: Dr. Yuanyuan Liu

#886. Peggy McCluggage
*Identifying Elusive Sites of O-Linked Glycans on Tyrosine*
University of Mississippi (Mississippi)
Preceptors: Dr. Weiming Yang, Dr. Lawrence Tabak

#887. Sienna Perry
*Col6alpha2 Regulates Periodontal Ligament Structure and Strength*
Cornell University (New York)
Preceptors: Dr. Marian Young, Dr. Taishi Komori

#888. Emily Reinoso Jacome
*Modulation of Plasmacytoid Dendritic Cell Function in Acute Myeloid Leukemia*
Carnegie Mellon University (Pennsylvania)
Preceptor: Dr. Roxane Tussiwand

#889. Carolyn Robb
*Individual and Shared Functions of Epidermal Kallikreins*
Colgate University (New York)
Preceptors: Dr. Thomas Bugge, Dr. Roman Szabo

#890. Jocelyn Taylor
_Craniofacial Lesion Progression in Patients with Fibrous Dysplasia_
University of Mary Washington (Virginia)
Preceptor: Dr. Alison Boyce

#891. Carlos Villapudua
_Fibroblast Growth Factor Receptor 2b (FGFR2b) Dependent Acinar Cell Differentiation in Salivary Glands_
University of La Verne (California)
Preceptors: Dr. Marit Aure, Dr. Matthew Hoffman

#892. Xin Xin Xing
_Visualization of Receptor-selective Anthrax Toxin Delivery in Mice_
CUNY Hunter College (New York)
Preceptor: Dr. Thomas Bugge

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

#893. Christabelle Agyapong
_ISWI Complex Is Essential for Adipogenesis and Myogenesis_
Morgan State University (Maryland)
Preceptors: Dr. Kai Ge, Dr. Young-Kwon Park

#894. Jabili Angina
_mTOR Activation Ameliorates Neurodegeneration in Sandhoff Disease_
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Richard Proia

#895. Jenna Bakir
_Characterization of a Late Onset Tay-Sachs Mouse Model_
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Richard Proia, Dr. Maria Allende

#896. Alexis Banuelos
_Novel Splice Enhancer Variant in DSCAM Associates with Obesity in American Indians_
Northern Arizona University (Arizona)
Preceptors: Dr. Samantha Day, Dr. Leslie Baier

#897. Brianna Brite
_Natural History of Pregnancy and Pregnancy Outcomes in Metreleptin-treated vs Untreated Subjects with Lipodystrophy_
University of California, Los Angeles (California)
Preceptor: Dr. Rebecca Brown

#898. Brendan Creemer
_Probing PTHR1 Activation via Cell Based Assays_
Lewis and Clark College (Oregon)
Preceptor: Dr. Ross Cheloha

#899. Katherine Degner
_Role of the G beta 5/R7-RGS Complex in the Regulation of Pain Transmission in Sensory Ganglia_
Washington and Lee University (Virginia)
#900. Kara Delbridge
*Multi-color Single Molecule Tracking of Translation Readthrough on Vitamin D Receptor in Live Cells*
University of Tennessee (Tennessee)
Preceptors: Dr. Kelsey Bettridge, Dr. Nicholas Guydosh

#901. Katrina Dietsche
*Metformin Plasma Trough Concentration as Biomarker of Treatment Responsiveness in Youth Onset Type 2 Diabetes*
University of Minnesota Twin Cities (Minnesota)
Preceptor: Dr. Stephanie Chung

#902. Sydney Dixon
*Prebiotics and Metformin: A Pilot Randomized controlled Trial in Youth-onset Type 2 Diabetes*
Howard University (District of Columbia)
Preceptor: Dr. Stephanie Chung

#903. Seth Drey
*The C. elegans Centrosome is Surrounded by a Membrane Reticulum, the Centriculum, That Affects Centrosome Size*
Vanderbilt University (Tennessee)
Preceptors: Dr. Orna Cohen-Fix, Dr. Rlcha Maheshwari

#904. Kristen Glass
*Oxygen Binding to Hemoglobin S as a Monitor for Effect of New Drug in Clinical Trial Treatment of Patients with Sickle Cell Disease*
Transylvania University (Kentucky)
Preceptor: Dr. William Eaton

#905. Jillian Gomez
*fs(1)K741 Is a Female Sterile Allele of the Gene Sxl and Disrupts Sxl Splicing*
University of Tampa (Florida)
Preceptors: Mr. Leif Benner, Dr. Brian Oliver

#906. Emma Grellinger
*Functional Studies of the Type 2 Diabetes Associated KCNQ1 SNPs Using iPSC Derived Pancreatic Islet-like Cells as a Model System*
University of Wisconsin-Madison (Wisconsin)
Preceptors: Dr. Anup Nair, Dr. Leslie Baier

#907. Samantha Grounds
*Iron Chaperoning and Immunity: Exploring PCBP1’s Role in Macrophage Iron Homeostasis and Inflammation Response*
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Olga Protchenko, Dr. Caroline Philpott

#908. Jonathan Harrison
*Capturing Snapshots of Dynamin Structures by CryoEM*
Catholic University of America (District of Columbia)
Preceptors: Dr. Nidhi Kundu, Dr. Jenny Hinshaw

#909. Jacqueline Katz
*Prolonged Stimulation of B-Adrenergic Receptors in Human Brown Adipocytes Leads to Receptor Desensitization and Decreases in Metabolic Activity*
Tufts University (Massachusetts)
#910. Sydney Kelly
*Modeling Zellweger Syndrome: The Characterization of the Deletion of prx-10 in the Nematode Caenorhabditis elegans*
McDaniel College (Maryland)
Preceptors: Dr. Andy Golden, Dr. Xiaofei Bai

#911. Kerry Larkin
*Modeling Timothy Syndrome, a Rare Multi-system Disorder, in C. elegans*
College of the Holy Cross (Massachusetts)
Preceptor: Dr. Andy Golden

#912. Bowoo Lee
*Establishing a Humanized Mouse Model to Study HSD17B13 in Fatty Liver Disease*
University of California, Berkeley (California)
Preceptors: Dr. Yaron Rotman, Dr. Lila Gonzalez Hodar

#913. Sarah Lewicki
*Synthesis and Structure Activity Relationship of P2Y14 Receptor Antagonists: The Effects of Piperidine Ring Variation on 4-phenyl-2-napthoic Acid Derivatives*
Hobart and William Smith Colleges (New York)
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*T Cell Responses to SARS-CoV-2 Vaccination and Infection*
Northwestern University (Illinois)
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#915. Val Meleshkevich
*From Phospholipids to Membrane Proteins: Investigating the Mechanism of Nuclear Shape Change during the Budding Yeast Mating Response*
College of William and Mary (Virginia)
Preceptor: Dr. Orna Cohen-Fix

#916. Nicole Minerva
*Exploring Gut-Liver Communications in HCV Patients by Sequencing Cell-free Nucleic Acids*
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Preceptor: Dr. Theo Heller

#917. Ellen Morgan
*Elucidating the Mechanisms of Nuclear Envelope Expansion*
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#918. Savannah Muron
*The Expression of OVO Isoforms throughout Drosophila Development*
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Preceptors: Mr. Leif Benner, Dr. Brian Oliver

#919. Timothy O, Adrianna Hernandez
*Structural Function Analysis of the ZUC-processor*
University of Wisconsin - Madison (Wisconsin), Florida International University (Florida)
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*The Effects of Severe Insulin Resistance and Nutrition Status on the Growth Hormone-insulin-like Growth Factor-I Axis and Linear Growth*
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*Investigating Mitochondrial and Peroxisomal Crosstalk In Liver Diseases*
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Preceptor: Dr. Theo Heller

#922. Arielle Patterson
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*Investigation of Lad1 as a Candidate Modifier and Early Target of Polycystic Kidney Disease Signaling*
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Preceptors: Dr. Gregory Germino, Dr. Luis Menezes

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*Hepatitis B Surface Antigen in Hepatitis D Infection: Can One Virus’s Surface Protein Predict Treatment Response for Another?*
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Preceptor: Dr. Christopher Koh

#926. Kharina Roman
*Anatomical and Functional Communication between Vagal Sensory Neurons and Islets*
Pontifical Catholic University of Puerto Rico (Puerto Rico)
Preceptors: Dr. Santosh Kumar, Dr. Sushil Rane

#927. Luke Sang
*Investigating the Structural and Biochemical Properties of the Regulator for Biofilm Formation in the Pathogen Vibrio cholerae*
Duke University (North Carolina)
Preceptor: Dr. Deborah Hinton

#928. Blayne Schenk
*Excellent Agreement between the Newly Developed Pastry Sugar Tolerance Test and the OGTT: Implications for Effective Diabetes Screening in Under-resourced Areas*
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#929. Cassandra Small
*Understanding APOE4-induced Endocytic Dysfunction in Human iPSC-derived Astrocytes*
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Preceptors: Dr. Priyanka Narayan, Ms. Linda Yang

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Preceptor: Dr. Kong Chen

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*Hyperparathyroidism-jaw Tumor Syndrome: Past, Present and Future*
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Preceptors: Dr. Smita Jha, Mr. James Welch

#933. Zoe Waldman
*Sleep and Economic Status Are Linked to Daily Life Stress in African-born Blacks Living in America*
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Preceptor: Dr. Anne Sumner

#934. Alexander Zhu
*Chronic Adrenergic Stimulation in Humans Increases Plasma Bile Acids and Expression of Bile Acid Synthesis Enzymes in White Adipose Tissue*
Princeton University (New Jersey)
Preceptor: Dr. Aaron Cypess

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#935. Samantha Tesfaye
*Disparities in Cervical Cancer Screening Rates among All of Us Participants*
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Preceptors: Dr. Tamara Litwin, Dr. Sheri Schully
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