2015 Summer Scholars Program

Poster Session

Thursday, July 30, 2015
9:30am – 10:30am: even posters presentation
10:30am - 11:30am: odd posters presentation
Flaum Atrium
1. **Bright Arthur, Philander Smith College**  
   Mentor: David Topham, PhD  
   Title: *Can the influenza H1N1 HA2 Drift Under Immune Pressure?*  
   Authors: Bright Arthur, Christopher S. Anderson, Marta L. DeDiego and David J. Topham, PhD

2. **Cormac Assink, University of Rochester**  
   Mentor: Charles Duffy, PhD  
   Title: *Differential Impact of Aging and Alzheimer’s on Cortical Visual Processing*  
   Authors: Cormac A. Assink, Colin T. Lockwood and Charles J. Duffy, PhD

3. **Aahana Bajracharya, Wesleyan College**  
   Mentor: Tatiana Pasternak, PhD  
   Title: *Common Rules Guide Comparisons of Location and Direction in the Prefrontal Cortex during Visual Memory Tasks*  
   Authors: Aahana Bajracharya, Kostas Michalopoulos, PhD, Aaron Ketting-Olivier, Philip Spinelli and Tatiana Pasternak, PhD

4. **Blake Bentley, University of Rochester**  
   Mentor: Elizabeth Grayhack, PhD  
   Title: *Mechanisms by which Inhibitory Codon Pairs Reduce Translation*  
   Authors: Blake Bentley, Andrew Wolf, Christina Brule and Elizabeth Grayhack, PhD

5. **Andrew Bui, University of Rochester**  
   Mentors: Lin Gan, PhD  
   Title: *Characterizing the Expression of LHX3 and LHX4 in the Adult Mouse Retina*  
   Authors: Andrew Bui, Xuhui Dong and Lin Gan, PhD

6. **Shannon Doherty, Davidson College**  
   Mentor: David Dean, PhD  
   Title: *CCN1 Expression and Regulation of ICAM Protein in Mammalian Endothelial Cells*  
   Authors: Shannon Doherty, Rosemary Norman, David A. Dean, PhD and Jennifer L. Young
7. **Jasmine Geathers, Xavier University**  
Mentor: Harris Gelbard, MD, PhD  
Title: **BN52021 Protects Hippocampal Synapses in EAE**  
Authors: Jasmine Geathers, Matthew Bellizzi, MD, PhD and Harris Gelbard, MD, PhD

8. **Rebecca Greiner, Rochester Institute of Technology**  
Mentor: Harold Smith, PhD  
Title: **Characterization of HIV Host Defense Factor APOBEC3G Mutants Predicted to be Involved in ssDNA Binding and Catalytic Activity**  
Authors: Rebecca Greiner, Bogdan Polevoda, PhD and Harold Smith, PhD

9. **Michael Gwyn, North Carolina State University**  
Mentor: Patricia White, PhD  
Title: **Proliferation of Supporting Cells in Adult Mouse Vestibular Tissue by Errfi1 Knockdowns and ErbB Receptor Activation**  
Authors: Michael Gwyn, Luoying Yang, Jonelle Mattiacio, PhD and Patricia White, PhD

10. **N'Toia Hawkins, Ohio Wesleyan University**  
Mentor: Elaine Sia, PhD  
Title: **IRC3 Responsible for an Increase in Mitochondrial DNA Instability.**  
Authors: Elaine Sia, PhD, Alexis Stein and N'Toia Hawkins

11. **Kenechi Iwudyke, University of Rochester**  
Mentor: Mark Dumont, PhD  
Title: **The Use of Yeast to Screen for Antibodies with Functional Effects on the G Protein Coupled Receptor, CXCR4**  
Authors: Kenechi Iwudyke, Elizabeth Mathew, PhD and Mark Dumont, PhD

12. **Katryna Kevelson, University of Rochester**  
Mentor: Liz Romanski, PhD  
Title: **Prefrontal Networks Involved in Audiovisual Working Memory**  
Authors: Katryna Kevelson, Bethany Plakke and Lizbeth Romanski, PhD
13. **Selena Lilley, University of Rochester**  
Mentor: Krystel Huxlin, PhD  
Title: Impact of Vision Loss on Quality of Life in Cortical Blindness  
Authors: Selena Lilley, Matthew Cavanaugh, Adin Reisner and Krystel Huxlin, PhD

14. **Nina Lutz, Tufts University**  
Mentor: Ania Majewska, PhD  
Title: Response of Microglia in vivo to Acute Alcohol Exposure  
Authors: Nina Lutz, Elissa Wong and Ania Majewska, PhD

15. **Arena Manning, Skidmore College**  
Mentor: Suzanne Haber, PhD  
Title: The Role of the Dorsal Anterior Cingulate Cortex in OCD  
Authors: Arena Manning, Julia Lehman, MD and Suzanne Haber, PhD

16. **Karen Martin, Cornell University**  
Mentor: Jim Miller, PhD  
Title: Exploring the Structure-Function Relationship of CD28 Homodimer Interactions  
Authors: Karen Martin, Scott Leddon and Jim Miller, PhD

17. **Robert Newell, Rochester Institute of Technology**  
Mentor: Margot Mayer-Proschel, PhD  
Title: Gestational Iron Deficiency Increases Adult Cortical Inhibition  
Authors: Robert Newell, Michael Rudy and Margot Mayer-Proschel, PhD

18. **Utkarsh Parwal, Mercer University**  
Mentor: Richard Waugh, PhD  
Title: Micromechanical Study of Adhesion Probability between Mouse Neutrophils and Immobilized ICAM-1  
Authors: Utkarsh Parwal, Elena Lomakina PhD, Minsoo Kim PhD, David H. Smith and Richard E. Waugh PhD

19. **Ge Song, University of Rochester**  
Mentor: David McCamant, PhD  
Title: A Femtosecond Stimulated Raman Spectroscopy Study of dGMP and its Self-Aggregated Structures in Various Conditions  
Authors: Ge Song, Joohyun Lee and David McCamant, PhD
20. **Rachel Suppok, Dickinson College**  
Mentors: M. Kerry O’Banion, MD, PhD and John Olschowka, PhD  
Title: **The Role of Alternative Activation in Microglia**  
Authors: Rachel Suppok, Tara Sweet, PhD, John A. Olschowka, PhD, and Kerry O’Banion, MD, PhD

21. **Ralphdy Vernge, University of Puerto Rico in Ponce**  
Mentor: Mark Noble, PhD  
Title: **Mechanism of Tamoxifen Resistance in MCF7 Breast Cancer Cells**  
Authors: Ralphdy Vergne, Brittany Krupp, Hsing-Yu Chen and Mark Noble, PhD

22. **Alicia Wei, University of Rochester**  
Mentor: Keith Nehrke, PhD  
Title: **Optogenetic Control of ROS Production in C. elegans Using CRISPR/Cas9 Fusion Proteins**  
Authors: Alicia Wei, Keith Nehrke, PhD and Andrew Wojtovich

23. **Katheryn Wright, University of Rochester**  
Mentor: Ania Majewska, PhD  
Title: **Effect of Circadian Rhythm on Cortical Microglia Morphology**  
Authors: Katheryn Angel Wright, Grayson Sipe and Ania Majewska, PhD

24. **Lila Yang, University of Rochester**  
Mentor: Laura Calvi, MD  
Title: **Investigating the Role of CCR1 and CCR5 in a CCL3 Abundant Leukemic Microenvironment**  
Authors: Lila Yang, Brandon Zaffuto, Mary Georger, Rhonda Staversky, Benjamin J. Frisch, PhD and Laura Calvi, MD

25. **Ellen Yates, The College of William and Mary**  
Mentor: Suzanne Haber, PhD  
Title: **Frontal and Parietal Convergence in the Striatum: A Critical Node Underlying Attentional Drug Bias in Addiction**  
Authors: Ellen Yates, Eun Young Choi, PhD and Suzanne Haber, PhD