SCHOOL OF MEDICINE & DENTISTRY
UNIVERSITY of ROCHESTER MEDICAL CENTER

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