The Tenth Annual DSAC Student Research Symposium
Friday, January 11
Room 110, James B. Williams Medical Education Building

8:30 – 9:00 Breakfast - 1st Floor Lobby

Session I
Animal Models
9:00 am

9:00-Abraham Mathai (NS)
Cortical Inputs To The Subthalamic Nucleus Degenerate In Experimental Parkinsonism

9:15-Damon Lamb (NS)
Biophysical Modeling Of Leech Heart Motor Neurons

Session II
DNA And Gene Expression
9:30 am

9:30-Nick Bauer (BCDB)
Dynamic Localization Of Base Excision Repair Proteins Revealed By Quantitative Subcellular Compartmentalization Analysis (Q-SCAN)

9:45-Callie Wigington (BCDB)
The Novel Poly(A) RNA-Binding Protein, ZC3H14, Regulates A Key Subunit Of ATP Synthase In Breast Cancer Cells

10:00-Brooke Weckselblatt (GMB)
Large-Scale Sequence Analysis Of Translocation Breakpoint Junctions

10:15-Jennifer Gerfen (GMB)
Telomere Position Effect AT Human Chromosome Ends

10:30-10:45 Break

Session III
Life Of A Cell
10:45 am

10:45-Brian Gaudette (IMP)
Bcl-X<sub>L</sub> Protects From UPR-Associated Apoptosis During Plasma Cell Differentiation

11:00-Bree A. Szostek (MMG)
Determining The Role Of FlhD<sub>2</sub>C<sub>2</sub> Negative Feedback, And The RCS Phosphorelay In The Regulation Of The Swarming Inhibitor disA In Proteus mirabilis.

11:15-Mary Puckett (MSP)
Interception Of Cell Death Signaling By The ASK1/IKK Signaling Axis

THE TENTH ANNUAL DSAC STUDENT RESEARCH SYMPOSIUM [3]
11:30-Rebecca Meyer (NS)
GPR37 And GPR37l1 Are Receptors For The Neuroprotective And Glioprotective Factors Prosaptide And Prosaposin

11:45-Matthew Randolph (BCDB)
Satellite Cell Behavior In Pharyngeal Muscles

12:00 - 1:30 pm Poster Sessions & Lunch is Served
(Lobby Area of the SOM Bldg.)
12:00 - 12:45 pm Odd Numbered Poster Presentations
12:45 - 1:30 pm Even Numbered Poster Presentations

Session IV  Influence Of Experience And Environment  1:30 pm

1:30-Karen Siegel (NHS)
Societal Correlates Of Hypertension And Implications For Policy

1:45-Myra Woodworth-Hobbs (NHS)
Docosahexaenoic Acid Antagonizes Palmitate-Induced Stimulation Of Protein Degradation In Myotubes

2:00-Kathryn Shepard (NS)
Noradrenergic Modulation Of Experience-Dependent Plasticity During Auditory Cortical Development

2:15-Teresa Madsen (NS)
Delta Phase Modulation Of Gamma Oscillations In The BLA and mPFC During Fear Learning And Expression In Freely Moving Rats

2:30-2:45 Break

Session V  Microbe Virulence And Clearance  2:45 pm

2:45-Katherine Houser (IMP)
Seasonal Trivalent Inactivated Influenza Vaccine Does Not Protect Against Newly Emerging Variants Of Influenza A(H3N2) Virus In Ferrets

3:00-Jill Seladi-Schulman (MMG)
Effect Of Serial Passage On Influenza Virus Morphology And Growth

3:15-Joshua R. Shak (PBEE)
Streptococcus Pneumoniae Virulence Factor Pneumolysin Is Essential For Assembly Of Pneumococcal Biofilms

3:30-Tim Sampson (MMG)
A CRISPR-CAS Systems Mediates Bacterial Innate Immune Evasion and Virulence

3:45-4:00pm Break

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Session VI

Receptors And Signaling 4:00 pm

4:00-Sara Freeman (NS)
The Primary Binding Site For Oxytocin In The Macaque Forebrain Is The Vasopresin 1A Receptor: Evidence From In Vivo And In Vitro Localization Techniques

4:15-Andrew Bankston (BCDB)
Molecular Mechanisms And Essential Roles Of CDK5 Activation In Oligodendroglia Differentiation And Myelin Lesion Repair

4:30-Erin Armstrong (MSP)
Determining The Molecular Mechanism Underlying Ligand-Dependent Activation Of FABP5

4:45-Kalynda Gonzales (NS)
GABAergic Regulation of Striatal Cholinergic Interneurons: Synaptic Inputs from Parvalbumin-containing Interneurons

5:00-5:15pm Break

Keynote Address

5:15-5:45 pm

Dr. Stephen T. Warren, PhD

William Patterson Timmie Professor and Chair, Department of Human Genetics, Emory University School of Medicine also holds the Charles H. Candler Chair in Human Genetics and is Professor of Biochemistry and Pediatrics at Emory.

6:00pm Reception and Awards Presentation