PROGRAM

8:00 - 9:00  Breakfast

9:00 - 9:05  Velia M. Fowler
Welcome/Opening Remarks

Session I  Moderator: Paul Russell

9:10 - 9:35  Velia M. Fowler
Novel actin dynamics regulating red blood cell shape and physiology

9:40 - 10:05  Corwin Nicholat
Glycan ligands for targeting Siglecs on immune cells

10:10 - 10:35  Marty Fedor
RNA as a Global Metabolic Regulator

10:40 - 11:05 AM Break

Session II  Moderator: Larry Gerace

11:10 - 11:35  Steve Reed
Dysregulation of cell cycle proteins and cancer: when good proteins go bad

11:40 - 12:05  Elena Deryugina
MMP-mediated induction of the neovasculature capable of sustaining tumor cell intravasation and metastasis

12:10 - 12:30  Poster Highlights
Minghua Nie (Boddy)
Frenemies: unexpected auto-regulatory relationships among SUMO pathway factors for maintaining SUMO homeostasis

Mark Wallen (Gottesfeld)
Genetic correction for the common eye disease Fuchs corneal dystrophy

Peter Westenskow (Friedlander)
Neurovascular Crosstalk in the Retina

Romain Chassefeyre (Encalada)
Role of the axonal transport machinery in the propagation of pathogenic prion aggregates
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>12:35 - 2:00</td>
<td>Lunch/Poster Session</td>
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<td>2:00 - 2:25</td>
<td>Session III</td>
<td>Moderator: Sandra Encalada</td>
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<td>2:00 - 2:25</td>
<td>Rajesh Grover</td>
<td><em>The Great Escape: Mycoplasma Vs Host Adaptive Immune System</em></td>
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<td>2:30 - 2:55</td>
<td>Anastasia Kralli</td>
<td><em>Enhancing muscle fitness: exercise and exercise-induced responses in skeletal muscle</em></td>
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<td>3:00 - 3:25</td>
<td>Celine DerMardirossian</td>
<td><em>Control of the cell leading edge by a new GAP for Rac and Cdc42</em></td>
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<td>3:30 - 3:55</td>
<td>PM Break</td>
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<td>4:00 - 4:25</td>
<td>Session IV</td>
<td>Moderator: Velia Fowler</td>
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<td>4:00 - 4:25</td>
<td>Paul Russell</td>
<td><em>Protecting Genome Integrity</em></td>
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<td>4:30 - 4:55</td>
<td>Helen Makarenkova</td>
<td><em>Fgf signaling in lacrimal gland development, homeostasis and disease</em></td>
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<td>5:00 - 5:05</td>
<td>Velia M. Fowler</td>
<td><em>Closing</em></td>
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<td>5:10 - 6:00</td>
<td>Reception/Poster Session</td>
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POSTER SESSION

1. Frenemies: unexpected auto-regulatory relationships among SUMO pathway factors for maintaining SUMO homeostasis
   Mingua Nie (Boddy)

2. Roles of GEF-H1/Sec5 interaction in cancer cell migration and metastasis
   Violaine Delorme-Walker (DerMardirossian)

3. Ultrastructural Analysis of Motor Protein Conformations and Regulation in Neurons
   Danielle Grotjahn (Encalada)

4. Role of the axonal transport machinery in the propagation of pathogenic prion aggregates
   Romain Chassefeyre (Encalada)

5. Axonal Transport of Synaptophysin Vesicles through Coordination of Kinesin-1 and Kinesin-3
   George Campbell (Encalada)

6. Nonmuscle Myosin-IIA Regulation in Red Blood Cells and Megakaryocytes
   Alyson Smith (Fowler)

7. The role of croquemort in innate immunity and aging
   Nathalie Franc (Franc)

8. Neurovascular Crosstalk in the Retina
   Peter Westenskow (Friedlander)

9. Dissecting molecular mechanism of Lem2 in ERK signaling
   Olga Tapia (Gerace)

10. Genetic correction for the common eye disease Fuchs corneal dystrophy
    Mark Wallen (Gottesfeld)

11. The role of the Estrogen Related Receptors in adipose tissue thermogenesis and metabolism
    Erin Brown (Kralli)

12. Perm1 (PGC-1 and ERR-induced Regulator, Muscle 1) enhances mitochondrial biogenesis, oxidative capacity and fatigue resistance in adult skeletal muscle
    Yoshitake Cho (Kralli)

13. Lacrimal gland inflammation deregulates extracellular matrix remodeling and alters molecular signature of epithelial stem/progenitor cells
    Takeshi Umazume (Makarenkova)
14. Targeting inflamed endothelium with selectin-binding liposomes  
Mila Elich (Paulson)

15. Siglec-3 regulates FceRI function on human mast cells and basophil  
Shiteng Duan (Paulson)

16. Genetic Interaction Landscape Reveals Critical Requirements for Schizosaccharomyces pombe Brc1 in DNA Damage Response Mutants  
Arancha Sanchez (Russell)

17. Human Tyrosyl-tRNA Synthetase Stimulates Megakaryocytopoiesis Via TLR/MyD88/NFκB Signaling Pathway  
My Vo (Schimmel)

18. CMT2D neuropathy is linked to the neomorphic binding activity of glycyl-tRNA synthetase  
Ge Bai (Yang)