**UAB Mini Symposium**

**“Physiology and Pathophysiology of Astroglia”**

- **Robert Zorec, PhD**
  “Vesicular trafficking in astrocytes in health and disease”
- **Jean-Pierre Mothet, PhD**
  “Brain D-serine: from release to synaptic functions”
- **Hajime Hirase, PhD**
  “Astrocyte calcium signaling in plasticity of local cortical circuits in vivo”
- **Alexey Semyanov, PhD**
  “Subcellular mechanisms controlling Ca²⁺ dynamics in hippocampal astrocytes”
- **Jessica A. Filosa, MD, PhD**
  “Bi-directional communication at the neurovascular unit: implications for neuronal function”
- **Sergei A. Kirov, PhD**
  “Astrocytes, microglia and neurons in early stroke and traumatic brain injury”
- **Joanne E. Nash, PhD**
  “Understanding mitochondrial pathology in Parkinson’s disease: Implications for disease-modifying strategies”

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<th>Time</th>
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<td>9:00</td>
<td>Opening remarks (Vlad Parpura)</td>
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| 9:10-9:50 | **Robert Zorec** (robert.zorec@celica.si; University of Ljubljana, Ljubljana, Slovenia)  
  “The fabrics of astrocytic vesicle traffic in health and disease” |
| 9:50-10:00 | Discussion                                                                                   |
| 10:00-10:40 | **Jean-Pierre Mothet** (jean-pierre.mothet@univ-amu.fr; CRN2M-UMR 7286 CNRS, Aix  
  Marseille University, Marseille, France)  
  “Brain D-serine: from release to synaptic functions” |
| 10:40-10:50 | Discussion                                                                                   |
| 10:50-11:30 | **Hajime Hirase** (hirase@brain.riken.jp, RIKEN Brain Science Institute, Saitama, Japan)  
  “Astrocyte calcium signaling in plasticity of local cortical circuits in vivo” |
| 11:30-11:40 | Discussion                                                                                   |
| 11:40-12:20 | **Alexey Semyanov** (semyanov@brain.riken.jp; RIKEN Brain Science Institute, Saitama, Japan)  
  “Subcellular mechanisms controlling Ca²⁺ dynamics in hippocampal astrocytes” |
| 12:20-12:30 | Discussion                                                                                   |
| 12:30-1:30 | Lunch with the panel of speakers (Shelby 915)                                                   |
| 1:40-2:20  | **Sergei A. Kirov** (skirov@georgiahealth.edu; Georgia Health Sciences University, Augusta,  
  Georgia, USA)  
  “Astrocytes, microglia and neurons in early stroke and traumatic brain injury” |
| 2:20-2:30 | Discussion                                                                                   |
| 2:30-3:10  | **Jessica A. Filosa** (jfilosa@georgiahealth.edu; Georgia Health Sciences University, Augusta,  
  Georgia, USA)  
  “Bi-directional communication at the neurovascular unit: implications for neuronal function.” |
| 3:10-3:20 | Discussion                                                                                   |
| 3:20-4:00  | **Joanne E. Nash** (jnash@utsc.utoronto.ca; University of Toronto Scarborough, Toronto, ON,  
  Canada)  
  “Understanding mitochondrial pathology in Parkinson’s disease: Implications for disease-modifying strategies” |
| 4:00-4:10 | Discussion                                                                                   |
| 4:10-4:20  | Closing remarks (Vlad Parpura)                                                                 |
| 4:30-5:00  | Reception/social with speakers (Shelby 10th floor lobby)                                       |