



### Workshop III

## Astrocyte heterogeneity and transcriptome analysis

Wednesday, July 3, 2013, 9:00 – 13:00

Organized by

Maiken Nedergaard (University of Rochester, USA) and  
Alexei Verkhratsky (University of Manchester, UK)

- 9:00 – 9:05      **Alexei Verkhratsky**  
*University of Manchester, UK*  
**Introduction**
- 9:05 – 9:40      **Alexei Verkhratsky**  
*University of Manchester, UK*  
**Evolution, physiology and pathophysiology of neuroglia**
- 9:40 – 10:15      **Andreas Reichenbach**  
*University of Leipzig, Germany*  
**Structural heterogeneity of astrocytic cells in vertebrate CNS**
- 10:15 – 10:50      **Magdalena Götz**  
*Helmholtz Center Munich, Germany*  
**How glial are neural stem cells – insights from genome-wide analysis**
- 10:50 – 11:10      **Coffee Break**
- 11:10 – 11:45      **Vittorio Gallo**  
*Children's National Medical Center, Washington, USA*  
**Endothelin-1: An astrocyte-derived signal that regulates oligodendrocyte development and regeneration**
- 11:45 – 12:20      **Fraser Sim**  
*University of Buffalo, USA*  
**Identification and genomic analysis of human neural and oligodendrocyte progenitor cells**
- 12:20 – 12:55      **Sergey Kasparov**  
*University of Bristol, UK*  
**Fluorescent labelling of astroglial vesicular compartments in cultures and *in situ*.**