

## **SATELLITE SYMPOSIA**

**40th annual meeting of the Society for Neuroscience, San Diego, CA**

**Sunday, November 14, 6:30 – 8:30 p.m.**

**Location:** San Diego Marriott Hotel and Marina

**Room:** San Diego Ballroom Salon A

### **Rapid isolation of neural cell populations: advanced technologies in neuroscience**

**6:30pm Magnetic cell sorting of astrocytes using a new GLAST-specific monoclonal antibody**

Andreas Bosio, Miltenyi Biotec, Bergisch Gladbach, Germany

**6:45pm Improving neural precursor cell cultures from the adult brain**

Gerd Kempermann, Center for Regenerative Therapies, Dresden, Germany

**7:05pm Isolation of purified neural cells to study neuron-glia interactions during development and disease**

Beth Stevens, Harvard Medical School, Boston, MA, United States

**7:25pm Magnetic cell sorting: An effective method for generating enriched population of oligodendroglial cells**

Dasa Cizkova, Institute of Neurobiology, Slovak Academy of Sciences, Kosice, Slovakia

**7:45pm Prospective isolation and *in vivo* fate mapping of adult neural stem cells from the subependymal zone**

Ruth Beckervordersandforth, Helmholtz Centre, Group of Magdalena Götz, Munich, Germany

**8:05pm Questions & Answers**

### **Summary:**

The rapid isolation of neural cell populations enables the study and detailed analysis of the functional properties of these cell types, as homogenous cell populations are a prerequisite for their exact characterization. However, the concept of target cell isolation is still unfamiliar within the area neuroscience, and is mainly due to a lack of specific cell surface markers known today. In addition, tight cell-cell contacts and dense cell networks make isolation difficult.

This satellite symposium will highlight examples of cell isolation experiments for a variety of cell types such as neural stem and precursor cells, oligodendrocytes and differentiated astrocytes, and will be presented from a broad range of experimental settings. The aim of this satellite symposium is to illustrate the advancements and opportunities of cell isolation methods in neuroscience, as well as emphasize that purification to a high degree is of great significance for the efficiency of subsequent experiments.