



Sackler Faculty  
of Medicine  
Tel Aviv University



## Molecular Aging Hub

**Nov 29, 2022** At seminar room 451, The School of Dental Medicine, Tel Aviv University

**10:00**

### **Astrocytes - key players and therapeutic target in stroke**

**Professor Milos Pekny, MD, PhD**

Director of the Laboratory of Astrocyte Biology and CNS Regeneration

Dept. of Clinical Neuroscience, Sahlgrenska Academy at the University of Gothenburg, Sweden



Pekny laboratory focuses on the development of novel strategies for brain repair and regeneration. Milos and others previously showed that reactive astrocytes are key players in stroke, neurodegeneration and disease-triggered neural plasticity responses. The lecture will highlight the specific roles of astrocytes in ischemic and hemorrhagic stroke, in post-stroke neural connectivity, and in neurodegeneration, and will present therapeutic strategies to promote functional recovery through the modulation of astrocytes.

**11:00**

### **Complement - a novel therapeutic target in stroke**

**Professor Marcela Pekna, MD, PhD**

Director of the Laboratory of Regenerative Neuroimmunology

Dept. of Clinical Neuroscience, Sahlgrenska Academy at the University of Gothenburg, Sweden



The complement system is a part of the innate immune system that protects the host against pathogens. Over the years, Marcela and others have identified novel functions of the complement system in neural plasticity, regeneration and responses of the brain in neurological diseases. The lecture will highlight recent findings from the Pekna laboratory that point to the complement C3a receptor as an attractive target for therapies aiming at improving recovery after ischemic stroke.