



# Welcome

Dear friends and colleagues,

Welcome to the third symposium of our Clinical Research Priority Program (CRPP) Stroke and our annual Stroke Symposium. We are proud to announce that the CRPP «The Interplay of Micro-circulation and Plasticity After Ischemic Stroke» recently received follow-up funding for another two years. It tackles the fundamental question of post-stroke plasticity and recovery enhancement through improved blood circulation. Furthermore, in a clinical trial involving neurology, neuroradiology and neurosurgery, selected patients with stroke will receive revascularization. In this translational project, neuroimaging will be the bridge to link mechanistic information from in vivo stroke models to clinical observations in patients. Current projects and new results will be presented.

The Stroke Symposium in the second part of the afternoon will present recent developments in stroke treatment. We are looking forward to speakers from Zürich, our guests Dr. Mirjam Heldner (Berne) and Prof. Stefan Engelter (Basel). Our keynote speaker Prof. François Chollet (University Paul Sabatier, UPS, Toulouse, France) will discuss current evidence about the use of antidepressants after stroke.

We hope that you will enjoy the program and look forward to lively discussions.

Andreas Luft, Prof. Dr. med.  
Senior Leading Physician  
Department of Neurology

Susanne Wegener, Prof. Dr. med.  
Attending Physician  
Department of Neurology

# Program

- CRPP Stroke Third Meeting**
- 14.00 h** **Welcome and Introduction**  
Susanne Wegener
- 14.05 h** **Changes in the Mechanical Properties of Neutrophils are a Cause of Capillary Obstructions in Stroke: Translational Insights from In Vivo and In Vitro Studies**  
Mohamad El Amki
- 14.20 h** **Analysis of Stroke-induced Vascular and Neuronal Circuit Damage in Cleared Tissue**  
Anna-Maria Reuss, William A. Middleham
- 14.30 h** **Characterising Plasticity Mechanisms in the Primary Motor Cortex Following Ischemic Stroke**  
Morgan Roberts
- 14.40 h** **Plasticity After Stroke: Insides from the Clinical CRPP Trial**  
Meret Branscheidt
- 14.55 h** **Correlation of MR-perfusion based Cerebral Blood Flow (CBF) Measurements with Phase Contrast MRI based CBF Measurements in Ischemic Stroke Patients**  
Bence Nemeth
- 15.10 h** **Novel Tissue Viability Mapping for Improved Penumbra Imaging Following Acute Ischemic Stroke**  
Jorn Fierstra
- 15.25 h** Coffee break
- Recent Developments in Stroke Treatment**
- 16.00 h** **Cervical Artery Dissections: New Insight from the TREAT-CAD Trial**  
Stefan Engelter
- 16.20 h** **Intracranial Atherosclerotic Disease**  
Mirjam Heldner
- 16.40 h** **Interventional Treatment of Intracranial Stenoses**  
Jawid Madjidyar
- 17.00 h** **Recent Developments in Neurosurgical Treatment of Stroke**  
Luca Regli
- 17.20 h** **Antidepressants and Stroke**  
François Chollet