



EUROPEAN SOCIETY FOR MICROCIRCULATION  
BIENNIAL MEETING  
MAY 19-22, 2025, SZEGED, HUNGARY  
**ESM 2025**

EUROPEAN SOCIETY FOR MICROCIRCULATION  
Integrating  
Vascular Biology & Medicine



**Microcirculatory responses to spreading depolarisation in patients and animals**

**Chair:**

Jens Dreier, Centre for Stroke Research Berlin, Charité University Medicine Berlin, Germany

**Co-chair:**

Rob Wykes, The Division of Neuroscience and the Brain Inflammation Group, Centre for Nanotechnology in Medicine, University of Manchester; Department of Clinical & Experimental Epilepsy, UCL QueenSquare Institute of Neurology, United Kingdom

**Presentations:**

**Microcirculatory responses to spreading depolarisation in patients during neurocritical care**

Jens Dreier, Centre for Stroke Research Berlin, Charité University Medicine Berlin, Germany

**Spreading depolarisation (SD) waveform predicts SD-mediated localised haemodynamic responses in ischaemic brain tissue in mice**

Samuel Flaherty, The Division of Neuroscience and the Brain Inflammation Group, the Centre for Nanotechnology in Medicine, University of Manchester, United Kingdom

**Ketamine prevents the inverse haemodynamic response to spreading depolarisation in early focal ischaemia in mice**

Lorena Fernandes, The Division of Neuroscience and the Brain Inflammation Group; the Centre for Nanotechnology in Medicine, University of Manchester; United Kingdom

**Effect of SIN-1 on the SD-initiated negative ultraslow potential and the no-reflow phenomenon during forebrain ischemia and reperfusion in rats**

Coline Lemale, Centre for Stroke Research Berlin, Charité University Medicine Berlin, Germany