

FOR 2795 meeting on Thursday, September 12, 2024

Center of Soft Nanoscience (SoN), Busso-Peus-Str. 10, 48149 Münster

11:00 am Welcome

11:05 am Christos Gatsogiannis, SoN, Münster

"Cryo-electron microscopy for studying transporters and channels"

Visit of Cryo-EM Facility

12:15 pm Lunch

1 pm – 2:45 pm, discussion leader Christine Rose

Laura Petersilie

"Cortical brain organoid slices (cBOS) as a functional model system to study human neural cells in intact minimal networks"

Christian Henneberger (via zoom)

"Bidirectional dysregulation of synaptic glutamate signaling after transient metabolic failure"

Christoph Fahlke

"[Cl⁻] in glutamatergic neurons"

Andreas Reiner

"Glutamate plumes and neuronal depolarization during energy deprivation"

2:45 pm Coffee Break

3:30 pm – 5:15 pm, discussion leader Jürgen Klingauf

Viacheslav Vasiliev

"Mitochondrial remodelling in human iPSC-derived neurons and NPCs under metabolic failure"

Rita Frank

"Pharmacological and hyperosmotic treatments for glioprotection: in vitro effects of mannitol and TRPV channel antagonism"

Hannah van Susteren

"A biophysical model for synaptic transmission during and after ischemia"

Temitope Adeoye (via zoom)

"Alzheimer's Disease-associated Intracellular Calcium Dyshomeostasis Leads to Impaired Presynaptic Function"

5:15 pm

Christine Rose, concluding remarks