

Neuroscience in Focus 2025

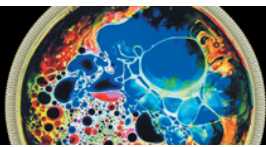
Neuroscience Day
of the Department of Physiology and Neurobiology

ELTE TTK, Southern Building
Institute Meeting Room (7-411)

2025
04/02

Program

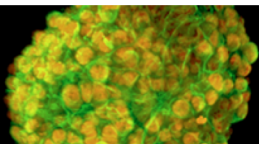
9:00 **Prof. Árpád Dobolyi**
Opening



NEURONAL SCAFFOLD PROTEIN
RESEARCH GROUP

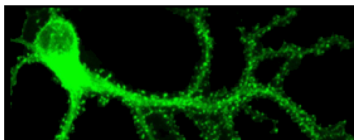
9:05 **Dr. Norbert Bencsik**
Involvement of Caskin1 in liquid-liquid phase separation - a novel player within postsynaptic scaffold protein network

9:25 **Dr. Anikó Rátkai**
Mystery of the protein tags



DEVELOPMENTAL AND STEM CELL NEUROBIOLOGY
GROUP

9:40 **Dr. Krisztián Tárnok**
Autism in the Petri dish: The accelerated maturation of neurons has been linked to the development of Kleeftstra syndrome



CELLULAR NEUROBIOLOGY
GROUP

10:00 **Dr. Katalin Schlett**
Clearing and light sheet - how to visualise spheroids, organoids and larger brain samples?

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EX VIVO ELECTROPHYSIOLOGY
GROUP

10:20 **Dr. Petra Varró**

Alterations in prefrontal cortical functions in the rat valproate model of autism



IN VIVO ELECTROPHYSIOLOGY
GROUP

10:35 **Dr. Attila Tóth**

Prolactin and sleep

10:55 **Coffee Break**



MOLECULAR AND SYSTEMS NEUROBIOLOGY
GROUP

11:10 **Dr. Gina Puska**

Calbindin neurons of the lateral septum regulate maternal care driven by their thalamic inputs

11:30 **Máté Egyed**

Chemogenetic and fiber photometry study of oxytocin receptor neurons in the rat preoptic area

11:45 **Dr. Szilvia Bartók**

A new software tool to identify behavioural elements from the output matrix of DeepLabCut

11:55 **Prof. Árpád Dobolyi**

Metabolic pathways in the brain: from suicide-linked glutaminolysis to neuronal-astrocytic energy dynamics

12:15 **Dr. Melinda Vitéz-Cservenák**

Postpartum enhancement of spatial learning and cognitive flexibility