

Fiziološko-nevroznanstvena delavnica: Promocija sodelovanja mladih raziskovalcev na področju nevrofiziologije med Slovenijo in Italijo

Promoting collaboration Between Slovenian and Italian Early-Career Researchers in Neurophysiology

This one-day workshop will bring together members of the physiology/neuroscience community to discuss recent advances, with a focus on GPCR signalling in astrocytes and neurons, neuroglial communication and brain plasticity in health and disease. The program will highlight emerging discoveries in astrocyte excitability and neuron–glia interactions, as well as their roles in neurodegeneration.

PROGRAM/PROGRAMME 15.06.2026, 9:45-16:00 ([Livada](#), Ljubljana)

09:45-10:00 REGISTRACIJA/REGISTRATION /Coffee/Drinks

OTVORITEV/OPENING (Robert Zorec)

10:00-10:15 **Robert Zorec** (UL MF & Celica, Slovenia): **Introduction to the labs in Ljubljana**

Chairs: Robert Zorec & Giuseppe Legname

10:15-10:30 **Prof. Giuseppe Legname** (SISSA, Italy): **Introduction to the labs at SISSA**

10:30-10:45 **Gioacchino De Leo** (SISSA, Italy): Pathological characterization of TgF344-AD rats with selective denervating lesion

10:45-11:00 **Simona Giancola** (SISSA, Italy): TAR DNA-binding protein 43 (TDP-43) translocation upon nutrient deprivation

11:00-11:15 **Giulio Pistorio** (SISSA, Italy): Characterization of SERPINA3 in Alzheimer's disease focusing on the role of astrocytes

11:15-11:30 **Valentino Panico** (SISSA, Italy): The Non-Octapeptide Region in the Prion Protein as Structural Determinant in Prion Conversion

11:30-12:00 **Break**

Chair: Robert Zorec & Giampiero Leanza

12:00-12:15 **Prof. Giampiero Leanza** (Univ. of Catania, Italy): **Introduction to the labs at Catania**

12:15-12:30 **Zala Smole** (ULMF & Celica, Slovenia): Shared Stimulation-Induced Lactate Dynamics in Astrocytes and Locus Coeruleus Neurons

12:30-12:45 **Julijan Vršnik** (ULMF & Celica, Slovenia): Amylin mediates adrenergic inhibition of fusion pore in vesicular antigen presentation by astrocytes

12:45-13:00 **Carla Marion** (ULMF, Slovenia): Role of Free Fatty Acid Receptors in Astroglial Metabolism

13:00-13:15 **Danaja Kuhanec** (ULMF & Celica, Slovenia): Extracellular L-lactate-induced Increase in Calcium and cAMP Requires GPR27

13:15-13:30 PostDoc: **Tomaž M. Zorec** (ULMF & Celica, Slovenia): Molecular Dynamics and Bioinformatic Analysis of GPR27 Receptor

13:30-13:45 PostDoc: **Lea Nikolic** (SISSA, Italy): MicroRNA517a-3p Suppresses α -Synuclein Fibril Accumulation in Human Glioblastoma Cells

13:45-14:00 PostDoc: **Anemari Horvat** (ULMF & Celica, Slovenia): Age-related Alterations in Ca^{2+} Signaling and Glucose Metabolism in Glia and Neurons

14:00-16:00 **Zaključek & diskusija & KOSILO & MREŽENJE / Closing & Discussion & LUNCH & NETWORKING**

Prijave: [Fiziološko-nevroznanstvena delavnica](#) /Informacije/Information: robert.zorec@mf.uni-lj.si