



Virtual
Research
Center
by Alliance4life

MINI CONFERENCE

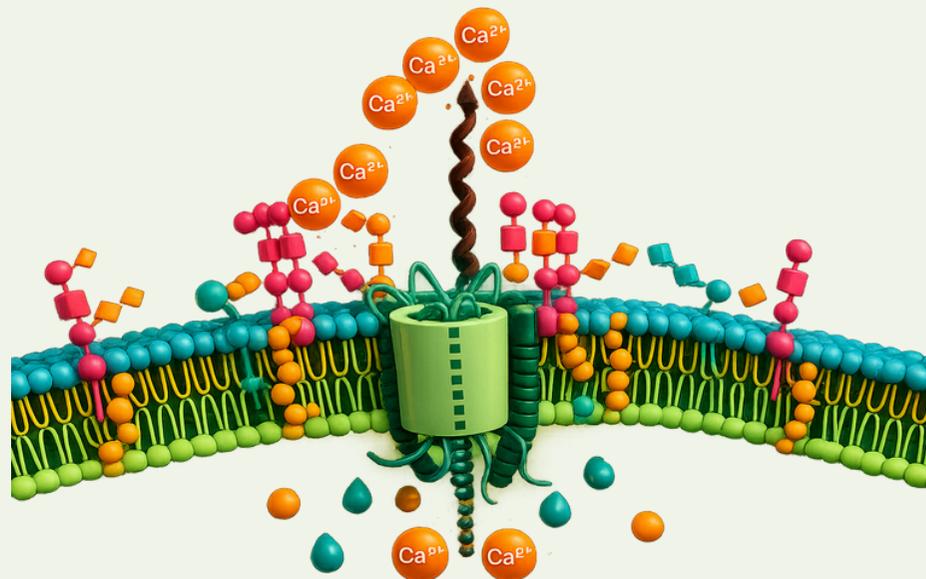
Department of Membrane Biochemistry

Join Our Virtual Mini Conference!

 **Date: 27/2/2026**

 **Time: 11:30 AM CET**

 **Platform: Online, via Zoom**



Speakers from

School of Medicine, University of Zagreb



Masaryk University, Central European Institute of Technology (CEITEC), Brno



Faculty of Science, University of Zagreb



Institute for Medical Research and Occupational Health, Zagreb



Ruđer Bošković Institute, Zagreb



National Institute for Research and Development in Electrochemistry and Condensed
Matter, Timisoara





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Programme

- 11:30 - 11:45 Welcome and opening remarks
Kristina Mlinac Jerković (Head of the Membrane Biochemistry Department, Alliance4Life Virtual Research Centre, Zagreb, HR)
- 11:45 - 12:15 Crash course on science communication
Ester Jarour (Masaryk University, Central European Institute of Technology, Brno, CZ)
- 12:15 - 12:35 Gangliosides, neuroplastin and ATPases: task force for handling ion transport and synaptic plasticity
Svjetlana Kalanj Bognar (Croatian Institute for Brain Research and Department of Chemistry and Biochemistry, School of Medicine, University of Zagreb, HR)
- 12:35 - 12:55 Toll-like receptors as a missing link in Notch signaling cascade during neurodevelopment
Mario Stojanović (Laboratory for Cell Biology and Signalling, Division of Molecular Biology, Ruđer Bošković Institute, Zagreb, HR)
- 12:55 - 13:10 **Break**



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- 13:10 - 13:30 Blood-brain barrier-penetrating oxime therapy restores synaptic acetylcholinesterase activity and reduces gliosis in mice exposed to organophosphate
Nikolina Maček Hrvat (Division of Toxicology, Institute for Medical Research and Occupational Health, Zagreb, HR)
- 13:30 - 14:00 Using computer as a microscope to study lipid-protein interactions
Aleksandra Maršavelski (Division of Biochemistry, Department of Chemistry, Faculty of Science, University of Zagreb, HR)
- 14:00 - 14:20 Changes of major genes related to cellular senescence in glioma
Nives Pećina Šlaus (Croatian Institute for Brain Research and Department of Biology, School of Medicine, University of Zagreb, HR)
- 14:20- 14:35 Gangliosides in glioblastoma membranes
Ana Karla Vodanović (XV. Gimnazija - IB programme, Zagreb, HR)
- 14:35 - 14:50 Break



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- 14:50 - 15:10 The ganglioside - PMCA - neuroplastin membrane nexus in glioblastoma
Borna Puljko (Croatian Institute for Brain Research and Department of Chemistry and Biochemistry, School of Medicine, University of Zagreb, HR)
- 15:10 - 15:30 Ganglioside landscape of mitochondrial membranes
Ana Ujević (Croatian Institute for Brain Research and Department of Chemistry and Biochemistry, School of Medicine, University of Zagreb, HR)
- 15:30 - 16:00 Resolving the structural complexity of cerebrospinal fluid gangliosides using ion mobility mass spectrometry
Mirela Sarbu (National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, RO)
- 16:00 - 16:30 Advanced mass spectrometric investigation of brain gangliosides in health and disease
Alina Zamfir (National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara and Department of Technical and Natural Sciences, Aurel Vlaicu University of Arad, Arad, RO)
- 16:30 Discussion and closing remarks



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Registration and joining details

Please register for the mini conference at:

<https://docs.google.com/forms/d/e/1FAIpQLSdPneFPy9IAgzmy2kN9wPru-BN0-B2pfRi4Hq5DbdvrRLgG1Q/viewform?usp=sharing&oid=102848552858691222120>

Zoom link:

<https://zoom.us/j/99916589653?pwd=XkerfKwL1E604geo8MwSla8aMadvFm.1>

Passcode: 440071

Scientific committee



Kristina Mlinac Jerković, Ester Jarour, Svjetlana Kalanj Bogнар, Mario Stojanović, Nikolina Maček Hrvat, Aleksandra Maršavelski, Nives Pećina Šlaus, Ana Karla Vodanović, Borna Puljko, Ana Ujević, Mirela Sarbu, Alina Zamfir