

Mini-symposium: *Multidisciplinary in drug development*

12.2.2025., Zagreb

Institute for Medical Research and Occupational Health

Programme

8:30 – 9:00	Welcome, introduction and registration	
9:00 – 9:20	A. Bosak	Development of bioactive molecules for neurodegenerative disease treatment (BioMol4ND)
9:20 – 9:40	M. Bartolić	Multi-target approach to the treatment of Alzheimer's disease: revival of amyloid theory
9:40 – 10:00	A. Matošević	Development of carbamate-based compounds as potential cholinesterase inhibitors for the treatment of Alzheimer's disease
10:00 – 10:20	K. Komatović	Adamantane derivatives of 4-aminoquinoline as inhibitors of hAChE and hBChE: Design and Synthesis
10:20 – 10:40	A. Zandona	Cytotoxicity of aminoquinoline- and carbamate-based inhibitors of cholinesterases
10:40 – 11:00	S. Žunec	Antioxidant testing in development of multifunctional drug candidates for neurodegenerative diseases
11:00 – 11:20	S. Šegan	QSAR Insights in 4-aminoquinoline derivatives as AChE and BChE inhibitors
11:20 – 11:40	D. Barić	Computational modelling of BChE carbamylation
11:40 – 12:20	Coffee break	
12:20 – 12:40	S. Katušić Hečimović	Endolysosomal dysfunction - a common initiator of Alzheimer's disease and Niemann-Pick type C disease
12:40 – 13:00	T. Hrenar	Deep reinforcement learning protocol for quantum-chemical multiple ligand docking to cholinesterases
13:00 – 13:20	N. Maček Hrvat	The effect of sarin on neuroinflammation and the plasma membrane organization of the mouse brain
13:20 – 13:40	A. Knežević	Supramolecular assemblies in water for organic synthesis and other applications
13:40 – 14:00	T. Čadež	Targeting organophosphorus poisoning by pseudocatalytic detoxification system
14: 00 – 14:10	A. Bosak	Looking ahead