General Program ICON4N

8:30 – 9:30	REGISTRATION		
9:30 – 10:00	OPENING CEREMONY		
10:00 – 11:30	**Plenary Session** Chair: Ioan Dumitrache		
10:00 – 10:30	**Mircea Dumitru**	Can a large language model be conscious?	
10:30 – 11:00	**Jean-Jacques Askenasy**	AI, Risks, Paradoxes and Anthropomorphism	
11:00 – 11:30	**Radu J. Bogdan**	The mind as an evolutionary cocktail – Can AI acquire and use imagination?	
11:30 – 11:45	COFFEE BREAK		
11:45 – 13:45	**Session 1** Chairs: Maria Dorobantu, Adrian Adascalitei		
11:45 – 12:00	**Maria Dorobantu, Marian Necula, Gabriela Florea**	What Does It Mean to Be "At Risk"? Artificial versus Human Intelligence in Understanding Vulnerability in Young Adults	
12:00 – 12:15	**Adrian Adascalitei**	Collaboration between human (natural) intelligence and artificial intelligence in STEAM education: the evolution of the pedagogical model	ONLINE
12:15 – 12:30	**Magdalena Budisteanu**	The Role of Artificial Intelligence in Neurogenetics	
12:30 – 12:45	**Carmen-Gabriela Bostan**	Perspectives on the Impact of Technology on Children within the AI–NI Ecology: Neurocognitive and Pedagogical Differences in the Age of Artificial Intelligence	
12:45 – 13:00	**Mihaela-Gabriela Neacsu, Stefania-Iulia Rosu**	Teaching Psychology in the Digital Age – Opportunities, Challenges and Current Trends	
13:00 – 13:15	**Mihaela-Gabriela Neacsu, Denisa-Cristiana Margalin**	Integration of Artificial Intelligence in the Teaching of Psychology in High School – the Premises of a Functional Pedagogical Model	
13:15 – 13:30	**Corina Colareza, Musata-Dacia Bocos, Dana Rad, Mihaela-Gabriela Neacsu, Zorica Triff**	Neurocognitive mechanism of self-regulated learning	
13:30 – 13:45	**Andra Dobrin, Violeta Caragea, Alexandru Babes**	Developing a multimodal approach for investigating emotional interference in working memory	
13:45 – 14:30	LUNCH BREAK		

14:30 – 16:30	**Session 2** Chair: Tudor Badea		
14:30 – 15:10	**Paola Bovolenta**	Human Eye Organoids as a Crossroads for Understanding Morphogenesis and Congenital Eye Disorders	ONLINE
15:10 – 15:50	**Thomas Euler**	Response properties of suppressed-by-contrast cells in the mouse early visual system	ONLINE
15:50 – 16:30	**George Dragoi**	Offline generative reconfiguration drives insight-like inference learning	ONLINE
16:30 – 16:45	**COFFEE BREAK**		
16:45 – 18:45	**Session 3** Chair: Ana-Maria Zagrean		
16:45 – 17:00	**Aurel Popa**	Aging Severely Limits Long-Term Survival of Reprogrammed Astrocyte-Derived Neurons After Ischemic Stroke	ONLINE
17:00 – 17:15	**Mihai Moldovan**	A mathematical model for assessing EEG reactivity during burst-suppression EEG patterns	ONLINE
17:15 – 17:30	**Vlad-Petru Morozan, Mihai Stancu, Mara Ioana Ionescu, Ana-Maria Zagrean, Mihai Moldovan**	Gestational Dysbiosis Compromises Resilience to Perinatal Asphyxia: A Neurophysiological Study	
17:30 – 17:45	**Laurentiu Tofan, Ioana Oane, Ioana Mindruta**	Non-Pharmacological Treatment in Drug-Resistant Epilepsy: Insights from a Romanian tVNS Cohort	
17:45 – 18:00	**Dimitrie Costake, Bogdan Amuzescu, Ionel Popescu**	Neuronal oscillators: synchrony analysis of a thalamo-cortical network	
18:00 – 18:15	**Dongdong Zhou, Fengyu Cong**	MRSE-SleepNet: Single-Channel EEG Sleep Staging via Multi-Scale Convolutions and Channel-Wise Feature Recalibration	ONLINE
18:15 – 18:30	**Miruna-Cristina Andone, Mircea Buruian**	Fractal-Aware Predictive Modeling of Cognitive Brain States: A Multiscale EEG and Deep Learning Framework	
18:30 – 18:45	**Didina-Catalina Barbalata, Mara Ioana Ionescu, Ioana Dogaru, Cristian Ciotei, Ana Maria Catrina, Vladimir Suhaianu, Ana-Maria Zagrean**	The Double Hit: Maternal Dysbiosis and Perinatal Asphyxia on Neurodevelopmental Outcomes in Rat Offspring	
19:30 – 21:00	**Dinner** House of Scientists (Casa Oamenilor de Știință)		

9:00 – 11:15	**Session 4** Chair: Bogdan Ovidiu Popescu	
9:00 – 9:15	**Bogdan Ovidiu Popescu**	New and future therapies in Alzheimer's disease
9:15 – 9:30	**Romeo-Zeno Cretu, Sylvia Cretu**	Stress, a multilevel response: challenges for amelioration interventions
9:30 – 9:45	**Iulian-Cristinel Vasile, Marian Necula, Nicoleta Siminea, Eduard Milea, Ion Petre, Bogdan Oancea, Mihaela Paun**	Recurring Cofluctuation States in Autism: Network Geometry and Temporal Organization
9:45 – 10:00	**Paula Denisa Saragea**	From Computational Prediction to Behavioral Validation: Pharmacokinetic Profiling and Molecular Docking of Phytochemicals as Essential Stages Before Preclinical Testing in Alzheimer's Disease Models
10:00 – 10:15	**Mihaela Comanici, Adrian Comanici**	Psychoneurobehavioral recovery in severe congenital hypothyroidism with growth hormone deficiency from a neuroendocrine-neuroimmune perspective
10:15 – 10:30	**Stefan Popa, Ioan Dumitrache**	Human Brain as a Quantum System
10:30 – 10:45	**Ioan Dumitrache, Stefan Popa**	Some Problems of Brain Modeling – Digital Twin of the Brain
10:45 – 11:00	**Bogdan Pavel**	Correlations between optic nerve ultrasound and inflammatory markers in patients with meningitis
11:00 – 11:15	**Dimple Dhawan**	Gold Nanoparticle-Enabled Theranostics for Neurodegenerative Disorders: A Precision Approach to Brain-Targeted Diagnosis and Therapy ONLINE
11:15 – 11:30	**COFFEE BREAK**	
11:30 – 13:10	**Session 5** Chair: Dafin Muresanu	
11:30 – 11:50	**Dafin Muresanu**	The role of brain reserve in the context of neurological disorders
11:50 – 12:10	**Octavian Henegariu**	Molecular profiling of brain lesions
12:10 – 12:30	**Ioana Berindan Neagoe**	Decoding Glioblastoma Heterogeneity: integrating genomics, single-cell and spatial transcriptomics
12:30 – 12:50	**Paul Verschure**	The role of artificial intelligence in stroke rehabilitation
12:50 – 13:10	**Stefan Strilciuc**	Advanced experimental models for the study of cerebrovascular disorders
13:10 – 13:55	**LUNCH BREAK**	

13:55 – 15:55	**Session 6** Chairs: Alexandru Babes, Stefan Trausan-Matu	
13:55 – 14:10	**George Oprita, Dan Domocos, Tudor Selescu, Adelina Paduraru, Ramona-Madalina Babes, Alexandru Babes, Andreas Leffler**	Complex effects of statins on ion channels involved in pain signaling and cardiac function
14:10 – 14:25	**Stefan Trausan-Matu**	Can LLM-based chatbots achieve consciousness?
14:25 – 14:40	**Maria Mernea, Giorgiana Diana Carmen Anghelescu, George Gamazeliuc, Dan Florin Mihailescu**	In Silico Exploration of Natural Product Interactions with Orexin Receptor 1
14:40 – 14:55	**Dumitru-Cristian Tranca**	From Bench to Edge: A Performance-Resource Trade-off Analysis of Deep Learning and INT8-Quantized Models for Sleep Staging
14:55 – 15:10	**George Oprita, Marvin Meyer, Alexandru Babes, Andreas Leffler, Irina Vetter**	Nav1.8 is modulated by the transmembrane protein TMEM233
15:10 – 15:25	**Rebeca Gheorghe, Catrinel Vatamanu, Bogdan Amuzescu, Adela Banciu, Daniel Banciu**	Effects of Near-Infrared Radiation (NIR) on β-amyloid-induced neurodegeneration in rat brain slices
15:25 – 15:40	**Catrinel Vatamanu, Bogdan Amuzescu, Rebeca Gheorghe, Alexandra Nutu**	Cytotoxic and Metabolic Effects of Diesel-Derived Particles on Cellular Models Relevant to the Central Nervous System
15:40 – 15:55	**Melania Magercu, Violeta Ristoiu, Maria Mernea**	Myelin-derived lipids modulate microglia lipid-sensing receptors in multiple sclerosis: a molecular docking study

16:00	**Closing Ceremony**