

## 8. CROATIAN NEUROSCIENCE CONGRESS PROGRAMME

Friday, 24<sup>th</sup> September 2021

<https://us02web.zoom.us/j/82663844952>

- 10.00-10.15** Welcome and opening remarks by President of the Croatian Society for Neuroscience - **Marijan Klarica**  
Welcome video-message from Secretary General of the Federation of European Neuroscience Societies - **Dóra Reglody**
- 10.15-11.00** **PRESIDENTIAL LECTURE**  
*Introductory words - Marijan Klarica and Miloš Judaš (Chairs)*  
**Ivica Kostović:** Subplate compartment - main playground for construction and functions of the human fetal cortex
- 11.00** **SYMPOSIUM “NEUROINFLAMMATION AND COVID-19”**  
*Introductory words - Zoran Đogaš and Maja Valić (Chairs)*
- 11.15-11.35 **Marija Santini:** COVID-19 and encephalitis
- 11.40-12.00 **Milan Radoš:** The spectrum of neuroimaging findings on MRI in patients with COVID-19.
- 12.05-12.25 **Ilija Brzić:** Mechanisms of neuroinflammation and pathology induced by virus infection
- 12.30-12.50 **Mario Habek:** COVID-19 in people with multiple sclerosis: what have we learned so far?
- 12.50-13.00 *On-line discussion*
- 13.15** **PRESIDENTIAL SYMPOSIUM “CURRENT TRENDS IN NEUROSCIENCE”** *Introductory words - Marijan Klarica and Miloš Judaš (Chairs)*
- 13.30-13.50 **Dean Nižetić:** Dissecting pathogenic and protective mechanisms for Alzheimer's disease using human cerebral organoid models
- 13.55-14.15 **Stephan Schwarzacher:** Synaptic plasticity in postnatal and adult hippocampal neurogenesis
- 14.20-14.40 **Dimitri Krainc:** The interplay of mitochondrial and lysosomal dysfunction in Parkinson's disease
- 14.45-15.05 **Lana Vasung:** Kinematic study of *in utero* fetal movements
- 15.05-15.15 *On-line discussion*

## THEMATIC SYMPOSIA

16.00-17.30 I. SLEEP AND SLEEP RESEARCH DURING THE COVID-19 PANDEMIC

<https://us02web.zoom.us/j/82663844952>

*Introductory words - Zoran Đogaš and Renata Pecotić (Chairs)*

**Zoran Đogaš:** Sleep and sleep research update in the COVID-19 pandemic

**Rozi Andretić Waldowski:** Back to the basics - learning how redox modulation regulates sleep and addiction using animal model

**Ivana Rosenzweig:** Effects of lockdown during the COVID-19 pandemic on sleep and mental health

**Ivana Pavlinac Dodig:** Sleep and lifestyle habits during the COVID-19 pandemics in Croatia

*On-line discussion*

16.00-17.30 II. BRAIN LIPIDOMICS

<https://us02web.zoom.us/j/82141204634>

*Introductory words – Marija Heffer and Svjetlana Kalanj Bognar (Chairs)*

**Marija Heffer** - Lipidomic analysis of demyelination associated with complex ganglioside deficiency

**Željka Korade** - Disruption of brain sterol biosynthesis by commonly used prescription medications

**Karoly Mirnics** - Interaction of genetics, pregnancy and medications on the developing brain

**Kristina Mlinac Jerković** - Gangliosides framework for optimal function of plasma membrane ion transporters

*On-line discussion*

18.00-19.30 III. ALZHEIMER'S DISEASE

<https://us02web.zoom.us/j/82663844952>

*Introductory words – Goran Šimić (Chair)*

**Maja Jazvinščak Jembrek** - Pro-oxidative effects of flavonols in copper-induced oxidative stress

**Petra Kalember** - The role of proton magnetic resonance spectroscopy in diagnostics and investigating the disease course and treatment response in Alzheimer's disease

**Mirjana Babić Leko** - APOE genotype and essential metals in Alzheimer's disease

**Jelena Osmanović-Barilar** - Different effects of acute central inhibition of the GLP-1 and glucose-dependent insulinotropic peptide receptors in rat model of sporadic Alzheimer's disease

**Tena Sučić Radovanović** - The role of arterial spin labeling magnetic resonance labeling technique in diagnostics of Alzheimer's disease: our initial findings

**Dubravka Švob Štrac** - Dehydroepiandrosterone and brain-derived neurotrophic factor: potential therapeutic targets in Alzheimer's disease

*On-line discussion*

18.00-19.30 IV. PRECLINICAL MODELS OF NEUROLOGICAL DISEASES

<https://us02web.zoom.us/j/82141204634>

*Introductory words – Srećko Gajović (Chair)*

**Dinko Mitrečić** - Application of stem cells in brain diseases: focus on mitochondria and cell death

**Miranda Mladinić Pejatović** - Opossum *Monodelphis domestica* in research of neuroregeneration and neurodegeneration

**Marta Balog** - Rat model of chronic stress: connection to neurodegeneration

**Marina Dobrivojević Radmilović** - Retinal ischemia in rodent stroke models

**Damir Sapunar** - What can rats tell us about neuropathic pain?

**Srećko Gajović** - Repairing mouse brain after stroke

*On-line discussion*

**Saturday, 25<sup>th</sup> September 2021**

<https://us02web.zoom.us/j/86547324794>

9.30-11.30 POSTERS AND DISCUSSIONS I

11.45-13.45 POSTERS AND DISCUSSIONS II

14.00-14.30 **Presentation of Centre of Excellence for Basic, Clinical and Translational Neuroscience, School of Medicine University of Zagreb**

Miloš Judaš and collaborators

14.30 – 15.15 **Students in neuroscience**

*Introductory words – Dinko Smilović and Goran Sedmak (Chairs)*

Activity and history of the student section of neuroscience & Student journal

Gyrus

**15.30 Conference closing remarks and announcement of the Best poster award**