

8. CROATIAN NEUROSCIENCE CONGRESS PROGRAMME

Friday, 24th 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/82141204634>

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/82663844952>

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, 25th September 2021

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

9.30-12.00 POSTERS AND DISCUSSIONS I

12.15-14.30 POSTERS AND DISCUSSIONS II

14.45-15.00 **Presentation of Centre of Excellence for Basic, Clinical and Translational Neuroscience, School of Medicine University of Zagreb**

Miloš Judaš and collaborators

15.00 – 15.45 **Students in neuroscience**

Introductory words – Dinko Smilović and Goran Sedmak (Chairs)

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

Gyrus

16.00 Conference closing remarks and announcement of the Best poster award