

International Scientific Symposium

"Recent Advances in Neuroscience - the Brain Before and After Birth"

8 December 2023

Hotel DoubleTree by Hilton Zagreb

Grada Vukovara street 269a, Zagreb



INTERNACIONALNA AKADEMIJA NAUKA
I UMIJETHOSTI U BOSNI I HERCEGOVINI
INTERNATIONAL ACADEMY OF SCIENCE
AND ARTS IN BOSNIA AND HERZEGOVINA



ORGANIZERS:

**International Academy of Science and Arts in Bosnia and Herzegovina
European Academy of Sciences and Arts
International Academy of Perinatal Medicine**

PARTNERS:

**Croatian Society for Perinatal Medicine of HLZ
Croatian Society for Neuroimmunology and Neurogenetics
Croatian Association for Regenerative Medicine and Stem Cell Therapy**

CME points will be accredited by Croatian Medical Chamber

Congress fee: Free of charge



**To register please click on email:
neuroznanost2023@gmail.com**

International Scientific Symposium

**“Recent Advances in
Neuroscience -
the Brain
Before and After Birth”**

8 December 2023

Hotel DoubleTree by Hilton Zagreb

Grada Vukovara street 269a, Zagreb

ORGANIZING AND SCIENTIFIC COMMITTEE:

Honorary presidents:

**academician Asim Kurjak
academician Ivica Kostović
academician Vida Demarin**

Presidents:

**academician Aida Salihagić Kadić
academician Srećko Gajović
academician Vanja Bašić Kes**

Members:

**Academician Miro Jakovljević, Academician Milan Stanojević, Assoc.
prof. Josip Juras, Prof. Dinko Mitrečić, Academician Dušan Šuput, Academician
Osman Sinanović, Academician Almir Badnjević, Assoc. prof. Oliver Vasilj**

Secretaries: Ms Jadranka Cerovec and Ms Iva Barbir

Official languages: Croatian and English



PROGRAM

- 08:30–09:00 Registration of participants
- **09:00–09:15 Opening of the Symposium - welcoming remarks**
Academician Asim Kurjak - president of the International Academy of Science and Arts in Bosnia and Herzegovina and president of International Academy of Perinatal Medicine
Academician Dušan Šuput - dean of the Medicine class of the European Academy of Sciences and Arts
- **09:15–11:30 Chairpersons: Asim Kurjak, Srećko Gajović**
- 09:15–09:35 Ivica Kostović: Critical periods in the synaptogenesis of the human fetus
- 09:35–09:55 Asim Kurjak: Contribution of 4D ultrasound in the assessment of structure and function of the fetal brain
- 09:55–10:15 Osman Sinanović: Possibilities and significance of prenatal diagnosis of neuromuscular diseases
- 10:15–10:35 Aida Salihagić Kadić: Fetal brain and stress and its consequences on health
- 10:35–10:55 Helena Dukić: Prenatal origin of musical emotion: theory and research proposal
- 10:55–11:15 Milan Stanojević: Continuity of behavior from fetus to newborn: why is it important?
- 11:15–11:30 Questions and answers
- 11:30–11:45 Coffee break
- **11:45–14:00 Chairpersons: Ivica Kostović, Aida Salihagić Kadić**
- 11:45–12:05 Dušan Šuput: Magnetic resonance spectroscopy and imaging in developing brain
- 12:05–12:25 Goran Krakar: SENDD - Artificial intelligence as a tool for early detection of potential neurodevelopmental deviations in infancy
- 12:25–12:45 Damjan Osredkar: Personalised gene therapies for neurodevelopmental disorders – tools at our hands and challenges we face
- 12:45–13:05 Oliver Vasilj: The first attempt of postnatal motor assessment of ten-year-old children after antenatal testing with KANET

PROGRAM

- 13:05-13:25 Almir Badnjević: How much artificial intelligence can help ultrasound diagnostics in detecting brain diseases in children and adults
- 13:25-13:45 Dinko Mitrečić: Application of advanced *in vitro* models in the investigation of normal and pathological events in nervous tissue before and after birth
- 13:45-14:00 Questions and answers
- 14:00-15:00 Lunch break
- 15:00-16:55 Chairpersons: **Vida Demarin, Vanja Bašić Kes**
- 15:00-15:20 Vida Demarin: Neuroplasticity in health and disease
- 15:20-15:40 Fran Borovečki: The role of genomics in personalized neurology
- 15:40-16:00 Vanja Bašić Kes: Neuroimmunology today
- 16:00-16:20 Srećko Gajović: Challenges of brain recovery after stroke - from fetal corticogenesis to adult corticoprotection
- 16:20-16:40 Miro Jakovljević: The brain and soul before and after birth
- 16:40-16:55 Questions and answers
- 16:55-17:20 Closing of the Symposium - Academician Aida Salihagić Kadić, president of the Organizing and Scientific Committee

Registration and information:

It is necessary to register to participate in the Symposium by scanning QR code, clicking at the link: <https://forms.gle/o7vx2koPd1PQCiku9> or email to: neuroznanost2023@gmail.com



The program is available on the following websites:

<https://ianubih.ba/> Internacionalna akademija nauka i umjetnosti u Bosni i Hercegovini

<https://euro-acad.eu/> European Academy of Sciences and Arts

<https://www.hdpm.hr/> Hrvatsko društvo za perinatalnu medicinu HLZ-a

<https://hdning.hr/> Hrvatsko društvo za neuroimunologiju i neurogenetiku