

FINAL PROGRAM



**2nd International
Conference on
Neurological Disorders
and Neurorestoration**

19 - 22 May 2022 / Hotel Royal Neptun / Dubrovnik, Croatia



Dear colleagues and friends,

It is our great pleasure to welcome you to the

2nd International Conference on Neurological Disorders and Neurorestoration

Dubrovnik, Croatia, 19-22 May 2022

With a wish to organize a meeting dedicated to all major areas of Neurology, Neuroscience and Neurorestoration, in 2019, we gathered 150 renowned experts from 26 countries and 3 continents. Measurable success of the conference and numerous requests from all the participants for this meeting to become a tradition brought us to the decision to organize Neuro-Dubrovnik 2022!

Our concept prefers quality over quantity, with up to date and often provocative key-note talks, interdisciplinary cross-fertilization of approaches and solutions as well as major results published in dedicated journals.

Welcome to Neuro-Dubrovnik 2022!

Prof. **Erвина Bilic**, MD. PhD. neurologist
Head of the Department of Neurology
Clinical Hospital Center Zagreb,
University of Zagreb School of Medicine

Prof. **Dinko Mitrečić**, MD. PhD.
Head of the Department of Histology and Embryology
Head of the Laboratory for Stem Cells
Croatian Institute for Brain Research
University of Zagreb School of Medicine

Organiser

University of Zagreb School of Medicine

Coorganizers

- Clinical Hospital Center Zagreb
- Croatian Society for Neuromuscular Disorders and Clinical Electromyoneurography
- Croatian Neurological Society

Endorsed by

- European Brain Council
- Croatian Brain Council
- The Gillcrist Education Foundation

Organizing Committee

President: Professor Ervina Bilić, MD, PhD

Members:

Jasmina Isaković, PhD
Professor Dinko Mitrečić, MD, PhD
Professor Željka Petelin Gadže, MD, PhD
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Scientific Committee

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Professor Fran Borovečki, MD, PhD
Professor Srećko Gajović, MD, PhD
Professor Željka Petelin Gadže, MD, PhD
Professor Damir Petravić, MD, PhD
Professor Roland Pochet, MD, PhD
Professor Anna Sarnowska, MD, PhD

Methods of presentation

The Conference will be organized in a form of oral presentations, posters and satellite symposia. The official language of the Conference is English.



Sponsors

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ZENTIVA

Thursday, May 19, 2022

18:00 CONFERENCE OPENING CEREMONY

18:15-19:30 **PLENARY LECTURES**

2022: PROGRESS IN ALS THERAPEUTICS

M. Cudkowicz, Head of Neurology Clinic, Harvard Medical School, USA

BIOMARKERS AND PROGRESSION MARKERS IN REM-SLEEP BEHAVIOUR DISORDER (RBD) FOR DISEASE MODIFYING THERAPEUTIC TRIALS IN PRODROMAL PARKINSON DISEASE

W. Oertel, Department of Neurology, Philipps University Marburg, Germany, President of the European Brain Council

19:30 Gathering on the terrace

Friday, May 20, 2022

NEUROINFLAMMATORY DISEASES

08:30-09:00 **CHRONIC INFLAMMATORY DEMYELINATIVE POLYNEUROPATHY**

E. Bilić, University Hospital Centre Zagreb, Zagreb, Croatia

09:00-09:30 **Kir4.1 CHANNEL - A UNIVERSAL TARGET IN ALS GLIA**

P. Andjus, Faculty of Biology University of Belgrade, Belgrade, Serbia

09:30-10:00 **ON BRAINS AND VESSELS. HOW PERIVASCULAR FIBROBLASTS CONTRIBUTE TO ALS NEURODEGENERATION**

S. Lewandowski, Karolinska Institute, Stockholm, Sweden

10:00-10:30 **OCREVUS EXPERIENCE- FROM CLINICAL TRIALS TO LONG-TERM PRACTICE IN THE TREATMENT OF MS PATIENTS**

M. Habek, University Hospital Centre Zagreb, Zagreb, Croatia

Sponsored by Roche

1030-1100 Break



11:00-11:45 **INNOVATING FOR MULTIPLE SCLEROSIS TOGETHER**

M. Habek, University Hospital Centre Zagreb, Zagreb, Croatia

T. Gabelić, University Hospital Centre Zagreb, Zagreb, Croatia

Sponsored by Novartis

11:45-12:15 **EARLY HIGH EFFICACY THERAPIES FOR MULTIPLE SCLEROSIS**

R. Milo, Department of Neurology, Barzilai Medical Centre, Ashkelon, Israel

12:15-12:45 **CLADRIBINE TABLETS: TREATMENT OF MULTIPLE SCLEROSIS WITH HIGH EFFICACY THERAPIES**

M. Habek, University Hospital Centre Zagreb, Zagreb, Croatia

T. Gabelić, University Hospital Centre Zagreb, Zagreb, Croatia

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12:45-13:15 **EASY TO START, EASY TO SWITCH, EASY TO STAY ON**

M. Habek, University Hospital Centre Zagreb, Zagreb, Croatia

T. Gabelić, University Hospital Centre Zagreb, Zagreb, Croatia

Sponsored by Swixx

13:15-15:00 Lunch

NEURODEGENERATIVE AND EXTRAPYRAMIDAL DISEASES

15:00-15:30 **NUSINERSEN IN ADULT SMA PATIENTS – OUR RESULTS IN CRO / SLO**

E. Bilić, University Hospital Centre Zagreb, Zagreb, Croatia

B. Koritnik, University Medical Centre, Ljubljana, Slovenia

Sponsored by Biogen

15:30-16:00 **SPINAL MUSCULAR ATROPHY TREATMENTS RACE (SMART): GENE REPLACEMENT OR SPLICING MODIFIERS?**

N. Barišić, University Hospital Centre Zagreb, Zagreb, Croatia

Sponsored by Novartis

16:00-16:30 **SMA – STORY BEYOND THE MOTOR NEURON**
E. Bilić, University Hospital Centre Zagreb, Zagreb, Croatia
B. Sitaš, University Hospital Centre Zagreb, Zagreb, Croatia
Sponsored by Roche

16:30-17:00 Break with posters

17:00-17:30 **MODELLING NEURODEGENERATIVE DISEASES USING HUMAN CEREBRAL ORGANIDS**
D. Nižetić, Blizard Institute, Queen Mary University of London, London, UK

17:30-17:45 **MOLECULAR AND IMMUNOLOGICAL MECHANISMS OF PARKINSON'S DISEASE**
F. Borovečki, University Hospital Centre Zagreb, Zagreb, Croatia

17:45-18:00 **PARKINSON'S DISEASE versus PARKINSONISM**
S. Telarović, University Hospital Centre Zagreb, Zagreb, Croatia

18:00-18:15 **PARKINSONISM AND COVID-19**
Z. Trkanjec, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

18:15-18:45 **ADVANCED PARKINSON'S DISEASE: HOW TO IDENTIFY APD PATIENTS IN A TIMELY MANNER?**
S. Telarović, University Hospital Centre Zagreb, Zagreb, Croatia
TREATMENT OF ADVANCED PARKINSON'S DISEASE: LONG-TERM CLINICAL EXPERIENCE WITH DUODOPA
F. Borovečki, University Hospital Centre Zagreb, Zagreb, Croatia
Sponsored by Abbvie

20:00 Conference Dinner



Saturday, May 21, 2022

NEURORESTORATION

08:30-09:00 **CELLULAR AND MOLECULAR SPINAL CORD SURGERY**
N. Boulis, Emory University Department of Neurosurgery, USA

09:00-09:30 **THE CYSTINE/GLUTAMATE xCT ANTIporter: YET ANOTHER GLIAL GLUTAMATE TRANSPORTER MODULATING RECOVERY FOLLOWING SPINAL CORD INJURY?**
C. Nicaise, University of Namur, Namur, Belgium

09:30-10:00 **CRITICAL FACTORS RESPONSIBLE FOR THERAPEUTIC EFFECT OF CELL THERAPY**
A. Sarnowska, Mossakowski Medical Research Centre, Warsaw, Poland

10:00-10:45 Break

10:45-11:00 **NEW METHOD IN INTRAOPERATIVE FUNCTIONAL SPINAL AND CORTICAL MONITORING: SENSORY VIBRATION RESPONSE**
M. Zmajević Schonwald, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

11:00-11:15 **GHRELIN-MEDIATED REGENERATION AND PLASTICITY AFTER NERVOUS SYSTEM INJURY**
D. Lutz, Ruhr University Bochum, Bochum, Germany

11:15-11:30 **SPINAL CORD INJURY: DOES IT AFFECT THE TESTIS?**
D. Ježek, University Hospital Centre Zagreb, Zagreb, Croatia

11:30-11:45 **ELECTROMAGNETIC FIELDS AND THE NERVOUS SYSTEM: COMPUTATIONAL MODELING AND THERAPEUTIC APPLICATION**
J. Isaković, Omnion Research International Ltd, Zagreb, Croatia

11:45-12:00 **SPORT AND BRAIN PLASTICITY**
S. Morović, Aviva Medical Center, Zagreb, Croatia

12:00-12:15 **TRANSPLANTED NEURAL STEM CELLS SUPPRESS PYROPTOSIS AND NECROPTOSIS AND IMPROVE RECOVERY OF MICE AFFECTED BY STROKE**
D. Mitrečić, University of Zagreb School of Medicine, Zagreb, Croatia

12:15-13:30 Lunch

EPILEPSY

13:30-13:45 **PROGRESSIVE MYOCLONUS EPILEPSIES – CLINICAL CHALLENGES**
Ž. Petelin Gadže, University Hospital Centre Zagreb, Zagreb, Croatia

13:45-14:00 **SEIZURE SEMIOLOGY AND EPILEPTOGENIC NETWORKS**
V. Šulentić, University Hospital Centre Zagreb, Zagreb, Croatia

14:00-14:15 **THE ROLE OF PHARMACOGENETICS IN INDIVIDUAL APPROACH TO AED TITRATION IN PREGNANT WOMEN WITH EPILEPSY**
I. Zavoreo, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

14:15-14:30 **LONG-TERM EPILEPSY ASSOCIATED TUMORS**
A. Bujan Kovač, University Hospital Centre Zagreb, Zagreb, Croatia

14:30-15:00 **THE ROLE OF LEVETIRACETAM AND LACOSAMIDE IN THE TREATMENT OF EPILEPSY**
Ž. Petelin Gadže, University Hospital Centre Zagreb, Zagreb, Croatia
Sponsored by Pliva

15:00-15:30 Break with posters



CEREBROVASCULAR DISEASES

15:30-16:00 **ROTEAS (EDOXABAN) NOAC DEVELOPED FOR ELDERLY IN MIND**
M. Roje Bedeković, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

Sponsored by Berlin Chemie

16:00-16:15 **EVALUATING BRAIN DAMAGE AND REPAIR AFTER ISCHEMIC LESION BY MULTIMODAL IN VIVO IMAGING**

S. Gajović, University of Zagreb School of Medicine, Zagreb, Croatia

16:15-16:30 **NEURODEGENERATION AFTER STROKE - CAN WE DO SOMETHING?**

I. Perić, University Hospital Centre Zagreb, Zagreb, Croatia

16:30-16:45 **CEREBROVASCULAR DISEASES AND AGE-RELATED IMMUNE ALTERATIONS**

M. Roje Bedeković, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

16:45-17:00 **SEX AND GENDER IN NEUROLOGICAL DISEASE**

A. Lovrenčić-Huzjan, Sestre milosrdnice University Hospital Center, Zagreb, Croatia

17:00-17:15 **BRAIN AND RETINAL ISCHEMIA IN DIABETES MELLITUS**

M. Radmilović, University of Zagreb School of Medicine, Zagreb, Croatia

17:15-17:30 **SPLENECTOMY - MONOCYTE DEPLETION MODEL IN EXPERIMENTAL RODENT STROKE**

A. Glasnović, University of Zagreb School of Medicine, Zagreb, Croatia

19:30 CLOSING CEREMONY

Sunday, May 22, 2022

NEUROSCIENCE, NEUROLOGY AND PSYCHIATRY

09:00-09:15 WHAT DOES DREAMING IN IDIOPATHIC RAPID EYE MOVEMENT BEHAVIOUR DISORDER TELL US ABOUT ITS PATHOLOGY?

I. Rosenzweig, King's College London, London, UK

09:15-09:30 BRAIN, SLEEP, INFLAMMATION - NEUROPSYCHIATRIC PERSPECTIVE

D. Vidović, University Psychiatric Hospital Vrapče, Zagreb, Croatia

09:30-09:45 COGNITIVE IMPAIRMENT IN OBSTRUCTIVE SLEEP APNEA

B. Barun, University Hospital Centre Zagreb, Zagreb, Croatia

09:45-10:00 INSOMNIA TREATMENT: COGNITIVE BEHAVIOURAL THERAPY OR SLEEP MEDICATIONS

M. Mioč, University Psychiatric Hospital Vrapče, Zagreb, Croatia

10:00-11:00 Selected PhD students' oral presentations

(A. Bekavac, V. Hribljan, P. Josić, H. Justić, W. Lech, A. Planinić, K. Radoszkiewicz, P. Rybkowska)



GENERAL INFORMATION

Congress venue

Hotel Neptun, Dubrovnik, Hrvatska / Croatia

Official language

Official language is English. Simultaneous translation will not be provided.

Certificate of attendance

A Certificate of Attendance will be issued to all registered participants (Croatian Medical Chamber).

Official badges

All registered participants who paid the registration fee will get Congress badges and are obligated to wear them during both the scientific and social program.

Registration Fees

- Participants **3.500,00 HRK / 470 €**
- Sponsors **3.000,00 HRK / 400 €**
- PhD students and Residents **2.500,00 HRK / 330 €**

The registration fee for the Conference includes:

- Participation in all scientific sessions and the Exhibition area
- Printed program and the abstract book
- Congress dinner
- Closing ceremony
- Coffee breaks
- Credits
- Secretariat assistance

Accommodation

Accommodation is offered to the registered participants at special prices in Hotel Neptun, Dubrovnik.

- Single use room **1.400,00 kn / 186 €** for 1 person, per night
- Double room **1.810,00 kn / 241 €** for 2 people, per night

Price per room per night based on half board (breakfast + meal).

- 19.5.2022. dinner included
- 20.5.2022. lunch included
- 21.5.2022. lunch included
- 22.5.2022. breakfast included

On Site Registration

The Registration desk is at the Hotel Neptun.

Working hours:

Thursday	16.00 - 19.00
Friday	8.00 - 18.00
Saturday	8.00 - 18.00
Sunday	8.30 - 11.00

Conference Exhibition

During the Conference an industrial exhibition of medical manufacturers and pharmaceutical companies will be organised in the Conference area.

Accreditation

The committee for Continuing Medical Education of the Croatian Medical Chamber categorized and scored this expert meeting.

Active participants are awarded 15 points and passive participants 10 points.



ABOUT DUBROVNIK

Basic information

- Area: 143,35.35 km²
- Climate and weather: borderline humid subtropical and Mediterranean climate

Air temperature

- average annual: 16,4 °C
- average during the coldest period: January, 10 °C
- average during the warmest period: August, 25,8 °C

Sea temperature

- average for May-September: 17,9 – 23,8 °C (64,2 – 74,8 °F)

Time zone

- CET (UTC+1)

Summer (DST)

- CEST (UTC+2)

Postal code

- 20000

Dialing code

- +385 (0)20



Vivid Original

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