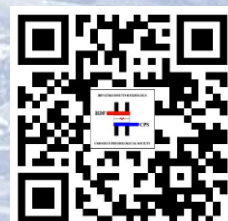




FINAL CONGRESS PROGRAMME

4th Regional Congress of Physiological Societies and 6th Congress of Croatian Physiological Society

October 14 – 16, 2026, Osijek, Croatia



Sponsorship



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PRE-CONGRESS WORKSHOP

Funkcionalna dijagnostika kardiorespiratornog sustava I funkcionalnih sposobnosti (spiroergometrija, CPET)

– radionica –

8:30 – 9:15 Teoretska izlaganja

(Seminarska učionica S1 - prizemlje, MEFOS)

1. **Energetski kapaciteti na razini stanice i mišićnog vlakna (Ines Drenjančević)**
2. **Spiroergometrija, CPET (eng. cardiopulmonary exercise testing) (Vladimir Ivančev)**
 - princip rada
 - parametri koje mjerimo
 - interpretacija rezultata
3. **Zdravstvene indikacije i kontraindikacije kod izvođenja testova maksimalnog opterećenja (Ana Stupin)**
4. **Priprema ispitanika i postupaka, mjere opreza i postupci pri izvođenju testova opterećenja (Ivana Jukić)**

9:30 – 11:00 Praktični dio (Vladimir Ivančev i Petar Šušnjara)

(Laboratorij za fiziologiju cirkulacije i kliničku fiziologiju MEFOS, podrum)

1. Izvođenje testa maksimalnog opterećenja na pokretnom sagu
2. Praćenje parametara od interesa
3. Interpretacija rezultata
4. Pisanje završnog nalaza i preporuka

Napomena: Radionica se održava na hrvatskom jeziku. Radionica je besplatna za sudionike kongresa i pokrivena je kotizacijom. Za ostale sudionike, kotizacija je 100 eura.

Prijave: info@hdf.hr do 13.10.2026.

Broj polaznika ograničen je na 12 i na principu najbržeg prsta.

4th Regional Congress of Physiological Societies 6th Congress of the Croatian Physiological Society

October 14–16, 2026 · Osijek, Croatia

Venue:

Faculty of Agrobiotechnical Sciences Osijek,

University J. J. Strossmayer Osijek,
Vladimira Preloga 1, 31000, Osijek

Contact:

Congress organization board (prof. dr. sc. Ines Drenjančević)
info@hdf.hr

*Please note: **On-site registration will be possible.***

All oral scientific sessions will be in AULA MAGNA, second floor;

**All coffee breaks, poster sessions, presenting sponsors and social program will
be in Educational-presentation Atrium, ground floor**

Wednesday, 14 October 2026

11:00 - 13:00 Registration and Welcome Coffee, Atrium, ground floor

13:00 - 13:05 Welcome (Aula Magna)

SESSION 1 — KEYNOTE & IMMUNOPHYSIOLOGY

Chairpersons: **Ines Mrakovčić Šutić** (Faculty of Medicine University of Rijeka, Croatia), **Ivan Ćavar** (University of Mostar School of Medicine, Mostar, Bosnia and Herzegovina))

13:10 - 13:45 **Bojan Polić** (Faculty of Medicine University of Rijeka, Rijeka, Croatia):
The role of IFN γ in systemic body adaptations to acute viral infections. KEYNOTE LECTURE (35 min)

13:45 - 14:00 **Dora Višnjić** (University of Zagreb School of Medicine, Zagreb, Croatia):
From Metabolic Stress to Cell Cycle Arrest and Differentiation. INVITED LECTURE (15)

14:00 - 14:15 **Ivan Ćavar** (University of Mostar School of Medicine, Mostar, Bosnia and Herzegovina):
Serum concentrations of cytokines and PSA in patients with prostate adenocarcinoma. INVITED LECTURE (15)

14:15 - 14:25 **Vilma Dembitz** (University of Zagreb School of Medicine, Zagreb, Croatia):
Plasma Triglycerides Associate with Sensitivity to Stearoyl-CoA Desaturase Inhibition in Acute Myeloid Leukemia. ORAL COMMUNICATION (10)

14:25 - 15:00 (35 min)

Coffee Break and Discussion, Atrium, ground floor

SESSION 2 — NEUROSCIENCE AND CEREBRAL PHYSIOLOGY

Chairpersons: **Robert Zorec** (Faculty of Medicine University of Ljubljana, Slovenia), **Marija Renić** (University of Zagreb School of Medicine, Zagreb, Croatia)

15:00 - 15:15 **Marija Renić** (University of Zagreb School of Medicine, Zagreb, Croatia):
Physiology of Cerebral Blood Flow INVITED LECTURE (15)

15:15 - 15:30 **Robert Zorec (Slovenian Physiological Society, University of Ljubljana, Ljubljana, Slovenia):**
Adrenergic Regulation of Astrocytes in Health and Disease. INVITED LECTURE (15)

15:30 - 15:45 Nina Vardjan (Slovenian Physiological Society, University of Ljubljana, Ljubljana, Slovenia):

Lipid Droplets and Signalling in Astrocyte Stress Response. INVITED LECTURE (15)

15:45 - 15:55 Vedrana Karan Rakić (Faculty of Medicine University of Novi Sad, Novi Sad, Serbia):

Evaluation and Reliability of SSEP and MEP in the Neurophysiological Assessment of Patients with Myelopathy. ORAL COMMUNICATION (10)

15:55 - 16:05 Anemari Horvat (Slovenian Physiological Society, University of Ljubljana, Slovenia):

Elevated K⁺ Triggers Glycolytic Lactate Mobilisation Contributing to Astrocyte Swelling. ORAL COMMUNICATION (10)

16:05 - 16:15 Antonio Markotić (University of Mostar School of Medicine, Mostar, Bosnia and Herzegovina):

Effects of "Prime Energy" drink on cognitive and psychomotor functions. ORAL COMMUNICATION (10)

16:15 - 16:30 Pause and Discussion

SESSION 3: ION CHANNELS AND DISEASE

Chairpersons: **Balázs István Tóth** (Institute of Physiology, Medical School, University of Pécs, Pécs, Hungary), **Hrvoje Lalić** (University of Zagreb School of Medicine, Zagreb, Croatia)

16:30 - 16:45 Balázs István Tóth (Institute of Physiology, University of Pécs Medical School, Pécs; and Department of Physiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary):

TRP channels in human dental pulp-derived cells and their role in pulpitis. INVITED LECTURE (15)

16:45 - 17:00 Aleksandar Kibel (Faculty of Medicine Osijek, Piora International Čepin, Croatia)

The role of SGLT2 inhibitors in the treatment of heart failure. INVITED LECTURE (15)

17:00 - 17:15 Erika Lisztes (Department of Physiology, Faculty of Medicine, University of Debrecen, Debrecen, Hungary):

Role of TRPV4 in dermal skin regeneration. INVITED LECTURE (15)

17:15 - 17:30 Viktória Kormos (Department of Pharmacology and Pharmacotherapy, Medical School University of Pécs, Pécs, Hungary):

Examination of Edinger-Westphal nucleus-specific TRPA1 cKO mice in migraine. INVITED LECTURE (15)

17:30 - 17:45 Miklós Kecskés (Institute of Physiology, Medical School University of Pécs, Pécs, Hungary):

Role of TRPM3 in epilepsy. INVITED LECTURE (15)

17:45 - 18:00 Zrinka Mihaljević (Faculty of Medicine Osijek, Osijek, Croatia):

Hyperbaric Oxygenation as a Modulator of Endothelial Function: Insights into Redox and Vasodilatory Pathways. INVITED LECTURE (15)

18:00 - 18:30 Discussion

19:00 - 21:00 Welcome Reception and music program – Atrium, ground floor

Thursday, 15 October 2026

**SESSION 4 — VASCULAR PHYSIOLOGY, MICROCIRCULATION & ENDOTHELIAL FUNCTION
(PART I)**

Chairpersons: **Helena Lenasi** (Slovenian Physiological Society, Faculty of Medicine University of Ljubljana, Slovenia), **Ana Stupin** (Faculty of Medicine Osijek, Osijek, Croatia)

08:30 - 08:45 Aleksandra Dugandžić (University of Zagreb School of Medicine, Zagreb, Croatia):

Different roles of brown adipose tissue and brain uroguanylin in males and females. INVITED LECTURE (15)

08:45 - 09:00 Nataša Popović (University of Montenegro, Podgorica, Montenegro):

The Retina as a Window to Systemic Physiology: Translating Physiological Signals into Digital Biomarkers. INVITED LECTURE (15)

09:00 - 09:10 Nikolina Kolobarić (Faculty of Medicine Osijek, Croatia):

α -Linolenic Acid and Vascular Endothelial Senescence: From Previous Findings to Current Research. ORAL COMMUNICATION (10)

09:10 - 09:25 Akos Koller (Semmelweis University, Budapest, Hungary, New York Medical College, Valhalla, NY, USA):

The molecular mechanisms reflect the different flow-dependent responses of small extra- and intracerebral arteries. INVITED LECTURE (15)

09:25 - 09:40 Vladimir Ivančev (Faculty of Kinesiology, School of Medicine University of Split, Croatia):

Physiological health predictors – health as prediction of functionality or functionality as a health predictor. INVITED LECTURE (15)

09:40 - 9:55 Dragan M. Mirkov (Faculty of Sport and Physical Education, University of Belgrade, Serbia):

Neuromechanics of the Countermovement Jump: From Neural Drive to Take-Off Velocity. INVITED LECTURE (15)

9:55 - 10:25 Discussion

10:30 - 11:20 (50 min)

Coffee Break & Poster Session I (P1-P21, Totem A and Totem B, parallel sessions) Atrium, ground floor

Chairs Totem A: **Nikolina Kolobarić** (Faculty of Medicine Osijek, Croatia), **Vilma Dembitz** (University of Zagreb School of Medicine, Zagreb, Croatia);

Chairs Totem B: **Ana Shek Vugrovečki** (Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia), **Filip Sedlić** (University of Zagreb School of Medicine, Zagreb, Croatia, Virtual Research Centre All4Life)

SESSION 5 — VASCULAR PHYSIOLOGY, MICROCIRCULATION & ENDOTHELIAL FUNCTION (PART II)

Chairpersons: **Akos Koller** (Semmelweis University, Budapest, Hungary, New York Medical College, Valhalla, NY, USA), **Danilo Radunović** (University of Montenegro, Podgorica, Montenegro)

11:30 - 11:45 Bari Ferenc (University of Szeged, Szeged, Hungary):

Nimodipine reduces microglial activation as shown by morphological phenotype, phagocytic activity and next generation RNA sequencing. INVITED LECTURE (15)

11:45 - 12:00 Helena Lenasi (University of Ljubljana, Ljubljana, Slovenia):

Impact of thyroid dysfunction on (micro)vascular and autonomic nervous system (re)activity. INVITED LECTURE (15)

12:00 - 12:10 Danilo Radunović (University of Montenegro, Podgorica, Montenegro):

Molecular basis of pulse wave velocity (PWV) and its clinical significance. ORAL COMMUNICATION (10)

12:10 - 12:20 Vladimir Prelević (University of Montenegro, Podgorica, Montenegro):

Chronic kidney disease as a model of early vascular ageing. ORAL COMMUNICATION (10)

12:20 - 12:30 Danijel Pravdić (University of Mostar School of Medicine, Mostar, Bosnia and Herzegovina):

The role of mitochondria in cardioprotection. ORAL COMMUNICATION (10)

12:30 - 12:45 Filip Sedlić ((University of Zagreb School of Medicine, Zagreb, Croatia), Virtual Research Centre All4Life):

Human myocardial miRNA expression in heart failure. INVITED LECTURE (15)

12:45 - 13:00 Discussion

SESSION 6 — AI, BIOMEDICAL SIGNALS & TRANSLATIONAL TECHNOLOGIES

Chairpersons: **Igor V. Pantić** (University of Belgrade, Faculty of Medicine Belgrade, Serbia)), **Mirza Žižak** (University of Zagreb School of Medicine, Zagreb, Croatia)

13:00 - 13:30 Mirza Žižak (University of Zagreb School of Medicine, Zagreb, Croatia):

AI -Supported Flipped Classroom approach: Transforming the role of teachers in medical education. INVITED LECTURE (30)

13:30 - 13:45 Igor V. Pantić (University of Belgrade, Faculty of Medicine Belgrade, Serbia):
A Fractal-Feature Neural Network for Quantitative Analysis of Two-Dimensional Physiological Signals. INVITED LECTURE (15)

13:45 - 13:55 Béla Z. Debreczeni (Doctoral School, Semmelweis University and DrD Plastic Surgery Studio Budapest, Hungary):
Microcirculatory and immunohistopathological assessment of the outcomes of different nipple–areola complex reconstructive surgeries. ORAL COMMUNICATION (10)

13:55 - 14:10 Pero Lučin (Faculty of Medicine Rijeka, Croatia):
AI-Assisted Longitudinal Single-Cell Profiling of Murine Cytomegalovirus Infection by Correlative Digital Holotomographic and Fluorescence Microscopy. INVITED LECTURE (15)

14:10 - 14:20 Carmen Rožmanić (Faculty of Medicine, University of Rijeka, Croatia):
Extracellular Vesicle Profiling in Human Cerebrospinal Fluid Following Traumatic Brain Injury: Automated Size-Exclusion Chromatography Coupled with Single-EV Microflow Cytometry. ORAL COMMUNICATION (10)

14:20 - 14:30 Ines Mrakovčić-Šutić (Faculty of Medicine University of Rijeka, Croatia):
Cross-talk between matrix-metalloproteinases and granulysin and perforin-mediated cytotoxicity in malignancies and environmental diseases. ORAL COMMUNICATION (10)

14:30 - 14:40 Discussion

14:40 - 15:15 (35 min) Lunch Break, Atrium, ground floor

SESSION 7 – POSTTRAUMATIC STRESS DISORDER: FROM BENCH TO BEDSIDE (session organized by Hungarian Physiological Society)

Chairpersons: **Dora Timea Zelena** (University of Pecs, Institute of Physiology, Pecs, Hungary) and **Nikola Habek** (Faculty of Medicine Zagreb, Croatia)

15:15 - 15:30 Dubravka Švob-Štrac (Institute Rudjer Boskovic, Zagreb, Croatia):
Title: The Biology of Trauma: Searching for PTSD Biomarkers. INVITED LECTURE (15)

15:30 - 15:45 Dóra Timena Zelena (University of Pécs, Institute of Physiology, Pécs, Hungary):
Title: Metabolic consideration of PTSD. INVITED LECTURE (15)

15:45 - 16:00 Ana Havelka Meštrović (Algebra Bernays University, Zagreb, Croatia):
Title: Psychophysiological studies in combat PTSD. INVITED LECTURE (15)

16:00 - 16:15 Viktória Kormos (University of Pécs, Department of Pharmacology and Pharmacotherapy, Pécs, Hungary):

Title: Transient receptor potential ankyrin 1 ion channels may control the stress adaptation and fear conditioning in a mouse model of posttraumatic stress disorder. INVITED LECTURE (15)

16:15 - 16:30 Steering board meeting Croatian Physiological Society

16:30 - 17:15 Annual meeting of General Assembly of Croatian Physiological Society (members of CPS only)

17:15 Free afternoon - a guided tour of the historic Tvrđa district and Osijek city centre - meeting at the reception desk with a guide

19:00 - 23:00 Conference Dinner
(Restaurant Projekt 9, Gornjodravaska obala bb, 31000, Osijek)

Friday, 16 October 2026

SESSION 8 — EXPERIMENTAL MODELS, EDUCATION & ETHICS

Chairpersons: **Vladiana Crljen** (University of Zagreb School of Medicine, Zagreb, Croatia), **Ivana Jukić** (Faculty of Medicine Osijek, Croatia)

08:30 - 08:45 Mario Ostović (Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia):

Using animals in biomedical research: Welfare issues and alternatives. INVITED LECTURE (15)

08:45 - 09:00 Ivan Alić (Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia):
In vitro models in biomedical research. INVITED LECTURE (15)

09:00 - 09:10 Ana Shek Vugrovečki (Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia):

Are Non-Animal Models Effective in Veterinary Education? Insights from Our Teaching Practice. ORAL COMMUNICATION (10)

09:10 - 09:20 Vladiana Crljen (Faculty of Medicine Zagreb, Croatia):

Ethical approach to handling laboratory rodent. ORAL COMMUNICATION (10)

09:20 - 09:30 Stefani Fruk Šimunec ((Faculty of Veterinary Medicine, University of Zagreb, Zagreb, Croatia):

Changes in Beta-Hydroxybutyrate, Non-Esterified Fatty Acids and Glutamate Dehydrogenase During the Periparturient Period in Saanen Goats. ORAL COMMUNICATION (10)

09:30 - 10:30 (60 min)

Coffee Break & Poster Session I (P22-P42, Totem A and Totem B, parallel sessions) Atrium, ground floor

Chairs Totem A: **Nina Vardjan** (Slovenian Physiological Society, University of Ljubljana, Ljubljana, Slovenia), **Jovana Paunović Pantić** (University of Belgrade, Faculty of Medicine Belgrade, Serbia)

Chairs Totem B: **Zrinka Mihaljević** (Faculty of Medicine Osijek, Croatia), **Danijel Pravdić** (University of Mostar School of Medicine, Mostar, Bosnia and Herzegovina)

SESSION 9 – MICROBIOTA

Chairs: **Ines Drenjančević** (Faculty of Medicine Osijek, Croatia), **Vladimir Prelević** (University of Montenegro, Podgorica, Montenegro)

10:35 - 11:05 Janoš Terzić (Faculty of Medicine Split, Croatia):

The role of microbiota and inflammation in urinary bladder cancer. PLENARY LECTURE (30 + 10 discussion)

SESSION 10 - FROM IMMUNOBIOLOGY OF PSORIASIS TO CLINICAL DISEASE CONTROL: IL-23 BLOCKADE WITH RISANOKIZUMAB AND THE POTENTIAL OF DIETARY INTERVENTIONS

Chairpersons: **Melita Vukšić Polić** (Faculty of Medicine Osijek, Clinical Hospital Centre Osijek, Croatia), **Martina Mihalj** (Faculty of Medicine Osijek, Clinical Hospital Centre Osijek, Croatia)

11:20 - 12:30

Martina Mihalj (Clinical Hospital Centre Osijek and Faculty of Medicine Osijek, Croatia):

IL-23 as the Master Regulator in Psoriasis: The Role of Dietary Intervention.

Ivana Krajina (Clinical Hospital Centre Osijek and Faculty of Medicine Osijek, Croatia):

IL-23 as the Master Regulator in Psoriasis: The Role of Dietary Intervention.

Vera Plužarić (Clinical Hospital Centre Osijek and Faculty of Medicine Osijek, Croatia):

Targeting IL-23 in Psoriasis: Immunologic Rationale for IL-23 Blockade and Dietary Modulation of the Inflammatory Circuit.

Stana Tokić: (Faculty of Medicine Osijek, Croatia):

$\gamma\delta$ T and MAIT T Cell Repertoire and Functional Remodeling in Psoriasis.

12:30 - 13:00 (30 min) Lunch Break

SESSION 11 — CELL PHYSIOLOGY, IMMUNOLOGY & TRANSLATIONAL RESEARCH (part I)

Chairpersons: **Maja Miškulin** (Faculty of Medicine Osijek, Croatia), **Dora Višnjić** (Faculty of Medicine Zagreb, Croatia)

13:00 - 13:15 Markus Ritter (Paracelsus Medical University, Salzburg, Austria):

On the manifold functions of the non-gastric H^+/K^+ -ATPase ATP12A. INVITED LECTURE (15)

13:15 - 13:30 Aleksandra Popović (University of Novi Sad, Novi Sad, Serbia):

Functional Analysis of Mitochondria in Permeabilized Muscle Fibers, Tissues, and Cultured Cells. INVITED LECTURE (15)

13:30 - 13:40 Ivo Krešić (University of Mostar School of Medicine, Mostar, Bosnia and Herzegovina):

Monocyte functional heterogeneity in psoriatic arthritis and ankylosing spondylitis. ORAL COMMUNICATION (10)

13:40 - 13:50 Pavao Planinić (University of Mostar School of Medicine, Mostar, Bosnia and Herzegovina):

Bone biology in murine models of cholestatic liver injury. ORAL COMMUNICATION (10)

13:50 - 14:05 Jelena Nesovic Ostojic (Faculty of Medicine, University of Belgrade, Serbia):

Hyperbaric Oxygen and Acute Physical Activity: Organ-Specific Effects on Redox Status and Elemental Homeostasis. INVITED LECTURE (15)

14:05 - 14:15 Maja Miškulin (Faculty of Medicine Osijek, Croatia):

Vitamin B₁₂ and Depressive Symptoms: A Cross-Sectional Study Among Croatian Older Adults. ORAL COMMUNICATION (10)

SESSION 12 — CELL PHYSIOLOGY, IMMUNOLOGY & TRANSLATIONAL RESEARCH (part II)

Chairpersons: **Ines Mrakovčić Šutić** (Faculty of Medicine Rijeka, Croatia), **Dora Višnjić** (Faculty of Medicine Zagreb, Croatia)

14:20 - 14:35 Jovana Paunović Pantić (University of Belgrade, Faculty of Medicine Belgrade, Serbia):

Recent Advances in Laser-Based Technologies for Tissue Regeneration. INVITED LECTURE (15)

14:35 - 14:50 Vlatka Sotošek (University of Rijeka, Rijeka, Croatia):

Endothelial glycocalyx in health and disease. INVITED LECTURE (15)

14:50 - 15:05 Sanjin Kovacevic (Faculty of Medicine University of Belgrade, Serbia):

Hyperbaric Oxygen Preconditioning in Experimental Acute Kidney Injury: Current Findings and Future Perspectives. INVITED LECTURE (15)

15:05 - 15:15 Ida Ivek (Faculty of Medicine University of Zagreb, Croatia):

Inhibitory Receptor Expression and T-Lymphocyte Recovery After Chimeric Antigen Receptor T-Cell or Bispecific Antibody Therapy: A Within-Subject Longitudinal Study. ORAL COMMUNICATION (10)

15:15 - 15:30 Helena Haque Chowdhury (Faculty of Medicine University of Ljubljana, Slovenia):

Advanced Therapy Medicinal Products Are Transforming the Future of Medicine: Clinical Outcomes and Future Directions of the Cell-Based ATMP aHyc for Prostate Cancer. INVITED LECTURE (15)

15:30 - 15:45 Andraž Stožer (Faculty of Medicine University of Maribor, Slovenia):

From spikes to strikes: Calcium oscillations in beta cells and their changes during development of type 2 diabetes. INVITED LECTURE (15)

15:45 - 16.00 Closing Remarks and Awards

LIST OF POSTERS BY DATES AND POSITIONS

Thursday 15.10.2026 P1. - P10.

Totem A

1. Ivan Bagić*, Marko Bagić. *Postoperative C-Reactive Protein Levels After Total Hip Arthroplasty: A Comparison of the Direct Anterior and Anterolateral Approaches.*
2. Marko Bagić*, Ivan Bagić. *Red Cell Distribution Width Differs Between Intracapsular and Extracapsular Proximal Femoral Fractures.*
3. Marta Balog*, Vedran Nemet, Senka Blažetić, Viktoria Čurila, Suzana Matić, Barbara Viljetić, Matija Fenrich, Kristijan Nenadić, Marija Heffer. *Effects of Chronic Aripiprazole and Trazodone Treatment on Lens Opacity and Oxidative Stress in Female Rats.*
4. Klara Bardač*, Alojzija Brčić, Hrvoje Lalić, Vilma Dembitz, Romana Penker, Giovanni Rodriguez Blanco, Dora Višnjić. *Dissecting the Role of Nucleotide Availability in Hydroxyurea-Induced Differentiation of Acute Myeloid Leukemia Cells.*
5. Anja Barić*, Helena Justić, Marina Dobrivojević Radmilović. *Longitudinal Optical Imaging of Fluorescent Glucose Analog Uptake in the Mouse Brain.*
6. Sara Bilić*, Sara Pavičić, Igor Štimac, Marina Marčelić, Gordana Blagojević Zagorac, Pero Lučin, Hana Mahmutefendić Lučin. *Rab11 FIP Proteins are Recruited into the Murine Cytomegalovirus Assembly Compartment.*
7. Alojzija Brčić*, Klara Bardač, Hrvoje Lalić, Vilma Dembitz, Tomislav Smoljo, Romana Penker, Giovanni Rodriguez Blanco, Dora Visnjic. *Nucleotide Homeostasis Determines Differentiation Responses to Replication Stress in Acute Myeloid Leukemia.*
8. Jakov Brozović*, Bruna Baljak, Nikola Habek. *Astrocytic GABA transporter-3 is dynamically regulated during disrupted glutamate–GABA homeostasis.*
9. Tea Cojić*, Snježana Merčep. *Cardiorespiratory Fitness in High School Students: A One-Year Follow-Up.*
10. Nikola Habek, Vladiana Crljen*, Dora Sedmak⁴, Martina Ratko^{1,2}, Martina Tkalčić⁵, Anton Mažuranić⁵, Pero Bubalo⁵, Petar Škavić⁵, Ivan Banovac⁴, Aleksandra Dugandžić¹⁻³ *Expression of uroguanylin in the brain is regulated by feeding.*

11. Anita Čavka*, Helena Trputac, Ivan Zović, Tatjana Trošt, Iris Zavoreo. *The impact of virtual reality on sleep physiology in patients with epilepsy.*
12. Slavko Čičak*, Irena Kmoniček-Krajina, Nikolina Kolobarić, Ana Marinčić Žagar, Silvija Midenjak, Ines Drenjančević, Ivana Haršanji Drenjančević. *Perioperative Microcirculatory Assessment in Total Hip Arthroplasty: A Comparative Pictorial Case Report Using Sublingual Glycocalyx Imaging and Laser Doppler Flowmetry.*
13. Viktoria Čurila*, Senka Blažetić, Marta Balog, Barbara Viljetić, Lovro Mihajlović, Robert Blažeković, Ozana Katarina Tot, Marija Heffer. *Effects of Sex, Age, and Gonadectomy on Systemic Oxidative Stress in Sprague–Dawley Rats.*
14. Sara Sitarić, Erna Davidović Cvetko*. *Relationship Between Motor Abilities, Physical Activity Levels, and Screen Time in Early Primary School Children.*
15. Ema Eržić*, Matea Majetić, Klara Džojić, Ema Schönberger, Romana Marušić, Kristina Steiner, Karla Lauš, Silvija Canecki-Varžić, Ines Bilić-Ćurčić. *Continuous Glucose Monitoring Metrics and Circulatory Function in Adults with Type 1 Diabetes: A Cross-Sectional Analysis.*
16. Lucija Faj*, Maja Tolušić Levak, Martina Mihalj, Vera Plužarić, Katarina Marošević, Jelena Aleksić, Milena Aleksić. *Responsible Sun Behavior During Outdoor Sports Activities: Knowledge and Application of UV Radiation Protection Measures Among Young Athletes*
17. Klara Findrik*, David Curač, Petar Šušnjara. *Correlation of tensiomyographic parameters of the quadriceps femoris muscle and maximum isometric force in athletes after anterior cruciate ligament injury.*
18. Damir Grebić*, Tamara Gulić. *The regulation of glycoprotein 96 expression in breast cancer.*
19. Ena Begić, Anemari Horvat*, Bojana Lazović, Urška Černe, Robert Zorec, Nina Vardjan. *Elevated K⁺ Triggers Glycolytic Lactate Mobilisation Contributing to Astrocyte Swelling.*
20. Barbara Kokić*, Ana Stupin, Ivana Jukić, Zrinka Mihaljević, Ines Drenjančević. *Evaluation of oxidative balance score in athletes and sedentary individuals.*
21. Justina Mesarić*, Dubravka Mihaljević, Ana Marinčić Žagar, Dina Šišljagić, Zdenko Boras, Ines Drenjančević. *Systemic Vascular Dysfunction in Chronic Kidney Disease: Insights from Hemodynamic and Microvascular Assessment.*

Friday 16.10.2026. P22. - P31.

Totem A

22. Danijela Kuna*, Klara Findrik, Petar Šušnjara. *Acute Neuromuscular Responses Following 5-km and Half-Marathon Running in Recreational Runners.*
23. Irena Krajina Kmoniček*, Ozana Katarina Tot, Slavko Čičak, Ana Marinčić Žagar, Nikolina Kolobarić, Ines Drenjančević, Silvija Midenjak, Ninoslava Vonić, Krunoslav Šego, Ivana Haršanji Drenjančević. *From Injury to Recovery: Temporal Dynamics of the Endothelial Glycocalyx After Cardiac Surgery.*
24. Egon Kruezi, Adam Vrbanić: Martina Rinčić*, Marta Skelin, Marija Ćurlin. *Cystic Fibrosis Transmembrane Conductance Regulator as a Potential Mediator of Hormone-dependent Cervical Mucus Properties.*
25. Nika Lovrinčević Pavlović*, Anđelina Miloloža, Lea Dumić, Mirjana Mikulić, Maja Miškulin. *Serum Copper and Zinc as Potential Monitoring Biomarkers in Multiple Sclerosis.*
26. Iva Macan*, Zvonimir Tomac, Marija Jelić Vuković. *Anthropometric Indicators and Physical Fitness in Adolescents: Relevance for Health and Functional Assessment.*
27. Vedrana Maretić*, Vladimir Ivančev. *Effects of Mouthguard Use on Aerobic Capabilities.*
28. Aleksandra Nenadovic*, Rada Jeremic, Una Jovana Vujacic, Milan Ivanov, Danijela Karanovic, Maja Zivotic, Nevena Mihailovic Stanojevic, Zoran Miloradovic, Predrag Brkic, Jelena Nesovic Ostojic, Sanjin Kovacevic. *Combined Renoprotective Effects of Hyperbaric Oxygen Preconditioning and 4,4' Dimethoxychalcone in Ischemia-Reperfusion-Induced Acute Kidney Injury: A Pilot Study.*
29. Igor Pantić*, Svetlana Valjarević, Jelena Čumić, Jovana Paunović Pantić. *Stacked Ensemble Detection of Oxidopamine-Induced Nuclear Texture Alterations in Yeast Cells.*
30. Jovana Paunović Pantić*, Svetlana Valjarević, Jelena Čumić, Igor Pantić. *Random Forest Machine Learning Detection of Iron Oxide-Induced Changes in Yeast Nuclear Architecture Using Wavelet Energy Features.*
31. Jadranka Pejaković Hlede*, Ivona Žura Žaja, Nato Popara, Selim Pašić, Dražen Đuričić, Ana Shek Vugrovečki, Stefani Fruk Šimunec, Mirna Kostović Srzentić, Iva Takšić, Nikolino Žura, Marinko Vilić. *Within-Session Variability During Indoor Radiofrequency Electromagnetic Field Measurements.*

32. Leon Perić*, Ivana Jukić, Ines Drenjančević, Vladimir Ivančev, Alina Boris, Petar Šušnjara, Nikolina Kolobarić, Zrinka Mihaljević, Dragan Mirkov, Ana Stupin. *Effects of Three-Week Carnosine-Enriched Chicken Consumption on Neuromuscular Function and Physical Performance in Competitive Athletes.*
33. Márk Racskó*, Judit Bohács, Erika Lisztes, Attila Oláh, Nóra Henn-Mike, Miklós Kecskés, Kinga Bágyi, Attila Gábor Szöllősi, Rita Marincsák, Balázs István Tóth. *Non-neuronal TRPA1 Mediates Communication from Dental Pulp Cells to Sensory Neurons in a Co-Culture Model.*
34. Vanja Radišić Biljak, Tamara Bašić, Lucija Dolovčak, Maja Cigrovski Berković, Vjekoslav Cigrovski, Marija Rakovac, Toni Šimić*, Andrea Saračević, Lana Ružić Švegl. *Rapid GLP-1 Response after Liquid Meal intake: A single Arm Pre-post Pilot study.*
35. Atila Salaj*, Hrvoje Ajman, Frane Žuvela, Petar Šušnjara. *Do Sprinters and Jumpers Differ in the Acute Countermovement-Jump Response to Isometric Conditioning Protocols? An Exploratory Study.*
36. Tudor Spalj Vedrana*, Drvar V, Kehler T, Laskarin Gordana. *The Role of Systemic Proinflammatory Interleukin-17A in the Somatization–Depression Axis in Patients with Spondyloarthritis during the Coronavirus Disease 19 Pandemic.*
37. Ivana Sović*, Mirela Vučković, Verner Marijančić, Mia Hrlec, Gordana Starčević-Klasan, Antonio Kokot, Tanja Grubić Kezele. *Cardiorespiratory fitness and quality of life in children between the ages of 9 and 11 participating in intensively organized sport and their peers.*
38. Dora Uršić*, Nikolina Kolobarić, Ines Drenjančević, Zrinka Mihaljević, Petar Šušnjara, Ana Stupin, Aleksandar Kibel, Ivana Jukić. *Carnosine-Enriched Chicken Meat Promotes an Anti-Inflammatory Profile in Patients with Chronic Coronary Syndrome.*
39. Ivo Vincetić*, Ana Stupin, Ivana Tolj, Ivana Jukić, Ines Drenjančević, Sandra Šarić, Marko Vincetić, Marin Vučković, Marko Stupin. *Characterizing the Vascular Phenotype of Prehypertension: Preliminary Findings.*
40. Miljana Vraneš*, Nikola Habek, Ana Perić, Ana-Marija Liberati Pršo, Aleksandra Dugandžić. *The Role of Uroguanylin in Genetic Predisposition of Type 2 Diabetes Mellitus.*
41. Lea Vuletić*. *Students' Descriptions of Blood Coagulation in Master's Theses: Anchored in the Textbook?*
42. Milorad Zjalić*, Helena Justić, Anja Barić, Marina Dobrivojević Radmilović. *Establishment of adult mouse brain-derived astrocyte cultures for metabolic studies.*

Accommodation

Osijek offers several hotels and a large number of privately owned accommodation options, which the participants can find through online booking sites. Please take into account that during October Osijek receives a large number of visitors, so make sure to book your accommodation on time.

Hotel Osijek <https://www.hotelosijek.hr/home>

Hotel Waldinger <https://waldinger.hr/>

Hotel Silver <https://www.hotel-silver.hr/>

Maximilian Osijek <https://maksimilian.hr/>

Merlon <https://merlon.hr/?lang=hr>

ZOO hotel <https://zoo-hotel.hr/>

Hotel Materra <https://hotelmatera.com/> (Čepin)

Further information regarding the final program, accommodation, poster size and orientation etc. will be posted on our web site (www.hdf.hr) in the near future. We thank you for your interest in attending this Congress and hope to see you soon! Should you have any further questions, do not hesitate to contact us.

Looking forward to see you in Osijek!

Best regards,

Organization board and Professor Ines Drenjančević, MD, PhD, President of the Croatian Physiological Society