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# RBC

# 2026

**Regional Biophysics Conference**

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# PROGRAM

**1 – 4 June 2026**

Belgrade, Serbia


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*Organized by the Biophysical Society of Serbia (BSS)*

# MONDAY • 1 June 2026

► PLENARY • INVITED • ORAL • ★ POSTER SESSION

TIME	HALL A — MAIN HALL
09:00	Registration
10:30 – 11:00	Opening Ceremony
11:00 – 11:45	<p>► PLENARY LECTURE</p> <p><b>Prof. Branimir Bertoša (Croatia)</b> The Synergy of Computational and Experimental Research in Biophysics</p>
11:45 – 12:15	 Coffee Break
12:15 – 13:45	<p><b>SESSION I · MOLECULAR AND STRUCTURAL BIOPHYSICS (MSB)</b></p> <p><i>Chairs: Velia Minicozzi, Ana Popović-Bijelić</i></p>
12:15 – 12:40	<p>INVITED <b>Bence Fehér</b> <i>Structural Investigation of Protein Assemblies with Small-Angle X-Ray Scattering</i></p>
12:40 – 13:05	<p>INVITED <b>Paolo Calligari</b> <i>From Allosteric Activation to Targeted Inhibition: Multiscale Insights into the Multi-domain Phosphatase SHP2</i></p>
13:05 – 13:30	<p>INVITED <b>Peter Galajda</b> <i>Studying bacterial ecosystems using engineered microfluidic habitats</i></p>
13:30 – 13:45	<p>ORAL <b>Jelica Milošević</b> <i>The Effect of Peptide Diversity on Protein Amyloid Aggregation</i></p>
13:45 – 14:50	 Lunch Break
14:50 – 15:35	<p>► PLENARY LECTURE</p> <p><b>Prof. György Panyi (Hungary)</b> Molecular Pathology of Ion Channels in Diseases and Their Pharmacological Targeting</p>
15:35 – 17:25	<p><b>SESSION II · MEMBRANE AND CELL BIOPHYSICS (MCB)</b></p> <p><i>Chairs: Anja Sadžak, Đura Nakarada</i></p>
15:35 – 16:00	<p>INVITED <b>Maja Marušić</b> <i>Reshaping RNA: Bulges Guide High-Affinity PNA Triplex Formation</i></p>
16:00 – 16:25	<p>INVITED <b>Miljko Satarčić</b> <i>Calcium: A Life and Death Messenger</i></p>
16:25 – 16:40	<p>ORAL <b>Marija Raguz</b> <i>Scanning Electron Microscopy Study of Multilamellar Vesicles Produced by the Rapid Solvent Exchange Method</i></p>
16:40 – 16:55	<p>ORAL <b>Lukas Schrangl</b> <i>Synaptic Force Shielding in T-Cell Receptor–Ligand Interactions</i></p>
16:55 – 17:25	 Coffee Break

17:25 – 18:20	<b>SESSION III · COMPUTATIONAL BIOPHYSICS (CB)</b> <i>Chairs: Nataša Adžić, Branislav Jelenković</i>
17:25 – 17:50	<b>INVITED Stefan Milenković</b> <i>Physically Informed Machine Learning for DNA Sequence–Current Relationships</i>
17:50 – 18:05	<b>ORAL Miloš T. Ivanović</b> <i>A Multi-Scale View of Multicomponent IDP Condensates from Simulation and Experiment</i>
18:05 – 18:20	<b>ORAL Jasmina Sabolović</b> <i>DFT Conformational Analyses and Magnetic Properties of the Copper(II) Compounds With N-Alkylated And N,N-Dialkylated Amino Acids in Solutions</i>
18:20 – 20:00	 <b>Welcome Party — Serbian Academy of Sciences and Arts Club</b>

## TUESDAY • 2 June 2026

► PLENARY • INVITED • ORAL • ★ POSTER SESSION

TIME	HALL A — MAIN HALL
08:00	Registration
09:00 – 09:45	<p>► PLENARY LECTURE</p> <p><b>Prof. Valeria Vetri (Italy)</b>  <b>Protein Self-Assembly at the Molecular Scale: From Interactions to Phase Separation</b></p>
09:45 – 10:55	<p><b>SESSION IV · BIOINFORMATICS (BI)</b>  <i>Chairs: Branimir Bertoša, Stefan Milenković</i></p>
09:45 – 10:10	<p>INVITED <b>Marija Rakić</b>  <i>Vitamin B Complex Suppresses Neuroinflammation in Activated Microglia: An Integrated In Vitro and In Silico Approach with Dynamical Modeling</i></p>
10:10 – 10:25	<p>ORAL <b>Aleksandra Maršavelski</b>  <i>Engineering Thermostable Ancestral Polyesterase for Efficient Bioplastic Degradation</i></p>
10:25 – 10:40	<p>ORAL <b>Eugene Y. Smirnov</b>  <i>PML Nuclear Bodies as Cellular Aging Markers: Morphological and Proteomic Analysis</i></p>
10:40 – 10:55	<p>ORAL <b>Sofija Marković</b>  <i>Reassessing the Predictive Value of the Global Health Security Index During the SARS-CoV-2 Omicron Wave</i></p>
11:00 – 11:30	☕ Coffee Break
11:30 – 12:40	<p><b>SESSION V · NEUROBIOPHYSICS (NB)</b>  <i>Chairs: Miha Štorman, Pavle Anđus</i></p>
11:30 – 11:55	<p>INVITED <b>Marko Gosak</b>  <i>Collective <math>\beta</math>-Cell Dynamics under GABA Modulation: Integrating High-Resolution Confocal Imaging, Network Analysis, and Computational Modeling</i></p>
11:55 – 12:10	<p>ORAL <b>Nóra Kucsápszky</b>  <i>A brain-on-a-chip system integrating BBB cell types and brain cortical organoids from stem cells</i></p>
12:10 – 12:25	<p>ORAL <b>Dejana Milošević</b>  <i>Microscopic imaging of human multipolar neurons: computational and monofractal morphological characterization across the aging process</i></p>
12:25 – 12:40	<p>ORAL <b>Zorana Jelesijević</b>  <i>Detection of Age-Related Morphological Changes in Astrocyte Projections Using Multifractal Spectra</i></p>
12:40 – 12:50	<p>★ <b>Sponsor Presentation Dr. Elena Dragicevic, Nanion Technologies</b>  <i>Exploring Ion Channels and Transporters Using State-of-the-Art Electrophysiology</i></p>
12:50 – 14:50	<p>★ <b>Poster Session I · Sections I, VI, IX</b>  <b>(Molecular &amp; Structural Biophysics · Medical Biophysics · Nanotechnology &amp; Targeted Therapeutics)</b></p>
17:45	<p>📷 <b>Conference Group Photo at the Port, Karađorđeva 2</b>  <b>(before boarding)</b></p>
18:00	<p>🚤 <b>Excursion: Boat trip</b></p>



## WEDNESDAY • 3 June 2026

► PLENARY • INVITED • ORAL • ★ POSTER SESSION

TIME	HALL A — MAIN HALL
08:00	Registration
09:00 – 09:45	<p>► PLENARY LECTURE</p> <p><b>Dr. Tanja Dučić (Serbia)</b>  <b>From Molecules to Meaning: Unlocking Cancer Across Scales with Synchrotron Techniques</b></p>
09:45 – 11:20	<p><b>SESSION VI · MEDICAL BIOPHYSICS (MB)</b>  <i>Chairs: Dejan Žikić, Nemanja Rajković</i></p>
09:45 – 10:10	<p><b>INVITED Aleksandar Jeremić</b>  <i>Molecular and Dynamical Insights of Amylin Supramolecular Assembly and Aggregation: Implications for Pancreatic Amyloidosis and Diabetes Development</i></p>
10:10 – 10:35	<p><b>INVITED Biljana Smiljković</b>  <i>Biophysical and Mathematical Approaches to Cardiovascular Age Estimation</i></p>
10:35 – 10:50	<p><b>ORAL Urban Železnik</b>  <i>Intrinsic Mechanical Control of Tumor Spheroid Morphology and Rheology in a 3D Vertex Model</i></p>
10:50 – 11:05	<p><b>ORAL Nuno C. Santos</b>  <i>From erythrocyte-based cardiovascular risk assessment to the development of a synthetic erythrocyte</i></p>
11:05 – 11:20	<p><b>ORAL Sofija Anđelić</b>  <i>TRPV4 Modulates Mechanically Induced Calcium Waves in Human Lens Epithelium</i></p>
11:20 – 11:50	☕ <i>Coffee Break</i>
11:50 – 13:10	<p><b>SESSION VII · BIOMIMETIC AND FUNCTIONAL INTERFACES (BFI)</b>  <i>Chairs: Nadica Ivošević DeNardis, Aleksandar Milovanović</i></p>
11:50 – 12:15	<p><b>INVITED Suzana Šegota</b>  <i>Interaction Between Flavonoids and Membranes Under Oxidative Stress: Implications for Cell Membrane Integrity</i></p>
12:15 – 12:40	<p><b>INVITED Ida Delač</b>  <i>Stability and Reversibility of Organic Molecule Modifications of Monolayer MoS<sub>2</sub></i></p>
12:40 – 12:55	<p><b>ORAL Alexander V. Fonin</b>  <i>RNA-induced conformational changes of stress granules scaffold protein, G3BP1</i></p>
12:55 – 13:10	<p><b>ORAL Vladimir Vlatković</b>  <i>The Examination of Cinnamic Acid Binding Interactions Strength to Human Serum Albumine Using Biomimetic Chromatography</i></p>
13:10 – 14:10	🍽️ <i>Lunch Break</i>
14:10 – 14:55	<p>► PLENARY LECTURE</p> <p><b>Dr. Matej Krajnc (Slovenia)</b>  <b>Tissue Mechanics: From Epithelia to Tumors</b></p>

14:55 – 16:00	<b>SESSION VIII · INNOVATIONS IN IMAGING AND SPECTROSCOPY (IIS)</b> <i>Chairs: Bence Fehér, Miloš Mojović</i>	
14:55 – 15:20	<b>INVITED Branislav Jelenković</b> <i>Quantum Techniques for Biomedical Imaging</i>	
15:20 – 15:45	<b>INVITED Dragana Bartolić</b> <i>Biophysical Approaches to Stress Assessment: Tracking Xenobiotic Toxicity in Fertilized Fish Eggs</i>	
15:45 – 16:00	<b>ORAL Alexander Einschütz López</b> <i>Softening of Vero Cells Induced by Measles Vaccine Virus</i>	
16:00 – 16:30	 <i>Coffee Break</i>	
16:30 – 17:35	<b>SESSION IX · NANOTECHNOLOGY AND TARGETED THERAPEUTICS (NTT)</b> <i>Chairs: Paolo Calligari, Ksenija Radotić</i>	
16:30 – 16:55	<b>INVITED Caterina Ricci</b> <i>Magnetically Responsive Biomaterials: Structural Modulation in Pathological Environments</i>	
16:55 – 17:20	<b>INVITED Daniela Uhríková</b> <i>Exogenous Lung Surfactant as a Drug Delivery System: Structure and Thermodynamics</i>	
17:20 – 17:35	<b>ORAL Anamarija Abu el Rub</b> <i>Hybrid Palladium-Tryptophan-Solid Lipid Nanoparticles: Synthesis, Characterization and Imaging Study</i>	
20:00	 <b>Gala Dinner (Dva Jelena, Skadarska 32, Belgrade)</b>	

## THURSDAY • 4 June 2026

► PLENARY • INVITED • ORAL • ★ POSTER SESSION

TIME	HALL A — MAIN HALL
09:00 – 09:45	<p>► <b>PLENARY LECTURE</b></p> <p><b>Dr. Katarina Stroffekova (Slovakia)</b>  <b>Photobiomodulation Effect on <math>\alpha</math>-Synuclein Aggregates and Autophagy in Parkinson's-Like Cells and Possible Implications for Treatment of Neurodegenerative Diseases</b></p>
09:45 – 10:25	<p><b>SESSION X · SYSTEMS BIOPHYSICS (SB)</b>  <i>Chairs: Miklos Kellermayer, Milena Milošević</i></p>
09:45 – 10:10	<p><b>INVITED Michal Šimera</b>  <i>Central Regulation of the Cough Reflex</i></p>
10:10 – 10:25	<p><b>ORAL Luíza Santa Brígida de Barros Góes</b>  <i>Engineering a Multi-Organ Microphysiological Platform with Integrated Impedance Monitoring for Quantitative Barrier Characterization</i></p>
10:25 – 12:25	<p>★ <b>Poster Session II · Sections II, III, V, VII, VIII, X, XI</b>  <b>(Membrane &amp; Cell Biophysics · Computational Biophysics · Neurobiophysics · Biomimetic &amp; Functional Interfaces · Innovations in Imaging &amp; Spectroscopy · Systems Biophysics · Cellular Mechanics &amp; Biophysical Regulation)</b></p>
12:30 – 13:00	<p> <i>Coffee Break</i></p>
13:00 – 14:15	<p><b>SESSION XI · CELLULAR MECHANICS AND BIOPHYSICAL REGULATION (CMR)</b>  <i>Chairs: Jasna Simonović Radosavljević, Dragana Bartolić</i></p>
13:00 – 13:15	<p><b>ORAL Miklós Kellermayer (Session I)</b>  <i>Liquid-Liquid Phase Separation by the Intrinsically Disordered PEVK Domain of the Giant Muscle Protein Titin</i></p>
13:15 – 13:30	<p><b>ORAL Nadica Ivošević DeNardis</b>  <i>Environmental Stress-Induced Changes in Microalgal Properties and Behavior</i></p>
13:30 – 13:45	<p><b>ORAL Jan Rozman</b>  <i>Why Extensile and Contractile Tissues Could be Hard to Tell Apart</i></p>
13:45 – 14:00	<p><b>ORAL Toshikaze Chiba</b>  <i>Tissue Fluidization Driven by Basal Self-propulsion in Three-dimensional Epithelial Monolayers</i></p>
14:00 – 14:15	<p><b>ORAL Antonella Macías</b>  <i>Mechanistic Insights Into <math>\beta</math>-Casein–Curcumin Interactions: A Concentration-Based Approach</i></p>
14:15 – 14:30	<p> <b>Closing Ceremony</b></p>

## POSTER SESSION I • Tuesday, 2 June 2026 • 12:50 – 14:50

Sections I, VI, IX • Molecular & Structural Biophysics • Medical Biophysics • Nanotechnology & Targeted Therapeutics

CODE	PRESENTING AUTHOR	TITLE
Section I • Molecular and Structural Biophysics (MSB)		
MSB-P1	Zuzana Bednarikova	<i>Disordered LEA Proteins as Regulators of A<math>\beta</math><sub>40</sub> Amyloid Aggregation: Targeting Secondary Nucleation in Fibril Formation</i>
MSB-P2	Sára Mikuličová	<i>Validation of Acoustic Detection of Myelin Basic Protein (MBP)</i>
MSB-P3	Ivana Kekez	<i>From Flexibility to Crystals: Structural and Biophysical Characterization of a Thermostable Metagenomic Esterase</i>
MSB-P4	Roberta Piacentini	<i>Perylene Bisimide Derivatives in Water Solutions, Effects of NaCl on Aggregation Kinetics and Spectroscopic Properties</i>
MSB-P5	Peter Zimovcak	<i>Effects of Choline Chloride-Based Deep Eutectic Solvents on the Structure and Thermal Stability of Lysozyme</i>
MSB-P6	Negar Rahimi	<i>Tuning the Structure and Nanomechanics of <math>\kappa</math>-Casein Amyloid Fibrils with Food-Grade Osmolytes</i>
MSB-P7	Nevena Preradović	<i>Bioactive Phenolics in Picea omorika Knot Extracts</i>
MSB-P8	Ana Pantelić	<i>Structural Insights Into the Ramonda serbica LEA4 Protein Family</i>
MSB-P9	Viktorija Relovska	<i>Cytochrome c as a Modulator of Amyloid-<math>\beta</math> Aggregation and Fibril Stability</i>
MSB-P10	Silvia – Maria Franov	<i>Structural and Dynamical Changes of the Streptococcus Pyogenes Transcriptional Regulator Mtsr Induced by Mn<sup>2+</sup> Binding</i>

<b>MSB-P11</b>	<b>Katarina Siposova</b>	<i>Fullerene-Phytocompound Composites as Anti-Amyloid Agents: Insights From Structural and Dynamical Studies</i>
<b>MSB-P12</b>	<b>Ondrej Cehlar</b>	<i>Disordered Oligomers Formed by Truncated Tau Proteins</i>
<b>MSB-P13</b>	<b>Tatiana Iliina</b>	<i>Disorder-to-Order Transition of LEA4 Family Proteins in Ramonda serbica</i>
<b>Section VI · Medical Biophysics (MB)</b>		
<b>MB-P1</b>	<b>Alexandra Poliaková</b>	<i>Protein-based HER2 targeting using DARPIn–AsLOV2C450A photosensitizing conjugate</i>
<b>MB-P2</b>	<b>Kristína Felčíková</b>	<i>Development of Effective Genetically Encoded Light-Responsive Systems for Biomedical Applications</i>
<b>MB-P3</b>	<b>Aleksandra Markoski Smiljković</b>	<i>Biophysical Effects of Laser Wavelength and Pulse Duration on Skin: Comparative Analysis of Picosecond and Millisecond Lasers</i>
<b>MB-P4</b>	<b>Bojana Stojadinović</b>	<i>Pressure as a Determinant of Pulse Wave Velocity: Experimental Evidence Supporting the Clinical Link Between Arterial Stiffness and Hypertension</i>
<b>MB-P5</b>	<b>Ljubica Ilić</b>	<i>Influence of Diastolic Pressure on Pulse Wave Reflection in a Biophysical Model of the Cardiovascular System</i>
<b>MB-P6</b>	<b>Andrea Antošová</b>	<i>Anticancer, Antioxidant, and Insulin Anti-Amyloid Activities of Newly Synthesized Bis-Indoles</i>
<b>MB-P7</b>	<b>Tomáš Holka</b>	<i>Label-Free Electrochemical and QCM Aptasensors for Sensitive MicroRNA Detection as a Promising Tool for Cancer Diagnosis</i>
<b>MB-P8</b>	<b>Katarina Meštrović</b>	<i>Differential Effects Of cGMP on Ca<sup>2+</sup> Signaling in Pulmonary and Mesenteric Artery Smooth Muscle Cells: A Theoretical Modeling Study</i>

<b>MB-P9</b>	<b>Marko Pajić</b>	<i>An Educational Arterial Model for Demonstrating Pulse Wave Propagation in Cardiovascular Biophysics</i>
<b>MB-P10</b>	<b>Isidora Janićijević -Grubišić</b>	<i>Biophysical Assessment of Vascular Ageing Through Continuous Pulse Waveform Analysis and Quantitative Retinal Microvascular assessment</i>
<b>MB-P11</b>	<b>Miroslav Gancar</b>	<i>Multi-Target Alzheimer's Disease Compounds Identified by AI: Evaluation of Systems-Level Predictions and Direct Biochemical Activity</i>
<b>MB-P12</b>	<b>Katarína Čechová</b>	<i>Cryoprotectant Concentration Reveals Hidden Functional Stress in Cryopreserved Human Keratinocytes</i>
<b>Section IX · Nanotechnology and Targeted Therapeutics (NTT)</b>		
<b>NTT-P1</b>	<b>Matúš Gális</b>	<i>Linear cell system for drug transport studies</i>
<b>NTT-P2</b>	<b>Patrick Mydla</b>	<i>Qualitative and quantitative insights into dendritic nanoparticle–blood interactions: a comparison of titration and separate-aliquot designs</i>
<b>NTT-P3</b>	<b>Máté Farkas</b>	<i>Simulation and experiments of microelectrode geometry effects on dielectrophoretic particle collection in microfluidic devices</i>
<b>NTT-P4</b>	<b>Miljan Barić</b>	<i>Lignin-based nanoparticles within poloxamer hydrogels for cancer treatment</i>
<b>NTT-P5</b>	<b>Anabela Dragičević</b>	<i>Antioxidant Activity of Pinus nigra and Juniperus communis Extracts: Toward Nanomaterial Applications and Redox Modulation</i>
<b>NTT-P6</b>	<b>Dunja Bandur</b>	<i>Effects of Boron- and Nitrogen-Doped Carbon Dots on Triticum aestivum L. Growth and Oxidative status</i>
<b>NTT-P7</b>	<b>Katarina Nestorovic</b>	<i>Revealing Thermal Management in the Natural World by Holography</i>

NTT-P8	Katarina Žikić	<i>Single-Photon Detection of Quantum Emitters: Towards Biophysical Sensing</i>
NTT-P9	Barnabás Tóth	<i>A Standardized Magnetic Separation Workflow to Reduce Batch-to-Batch Variability in Functionalized Nanoparticle Production</i>
NTT-P10	Sara Lukač	<i>Antioxidant Activity and Colloidal Stability of Chia Mucilage-Coated Cr<sub>2</sub>O<sub>3</sub> Nanoparticles as Redox Modulators: An EPR and Zeta Potential Study</i>
NTT-P11	Mladen Duran	<i>Antioxidant Activity of Liposome-Encapsulated Eryngium Amethystinum Extract: Implications for Honey Bee Studies</i>

## POSTER SESSION II • Thursday, 4 June 2026 • 10:25 – 12:25

Sections II, III, V, VII, VIII, X, XI • Membrane & Cell Biophysics • Computational Biophysics • Neurobiophysics • Biomimetic & Functional Interfaces • Innovations in Imaging & Spectroscopy • Systems Biophysics • Cellular Mechanics & Biophysical Regulation

CODE	PRESENTING AUTHOR	TITLE
Section II • Membrane and Cell Biophysics (MCB)		
MCB-P1	Aleksandar Milovanović	<i>Characterization of a Novel Hyperpolarization-Activated Delayed Anion Current (Hadac) in Plasma Membrane of the Filamentous Fungus <i>Phycomyces Blakesleeanus</i></i>
MCB-P2	Dragan M. Popović	<i>Energy Profile of Proton Pumping Mechanism in Mammalian Cytochrome c Oxidase under the Influence of Membrane Electrochemical Gradient</i>
MCB-P3	Anja Sadžak	<i>Oxidative Degradation of Polyunsaturated Lipid Membranes: Structural Changes, Mechanistic Insights and Flavonoid Protection</i>
MCB-P4	Shahrukh Husain	<i>Effect of Dipole Potential Modulators Phloretin and 6-Ketocholestanol on Membrane Potential</i>

MCB-P5	Đura Nakarada	<i>Exploring Liposome-Encapsulated Schiff Bases as Antioxidants for Honey Bee Health</i>
MCB-P6	Megi Tinev	<i>Toward High-Throughput Characterization of Giant Unilamellar Vesicles by Real-Time Deformability Cytometry</i>
MCB-P7	Elisa Bonaccorso	<i>Infrared Vibrational Signatures of Disease-Induced Perturbations in Membrane Hydration Water</i>
<b>Section III · Computational Biophysics (CB)</b>		
CB-P1	Nataša Adžić	<i>A Dance Story of Two Anisotropically Charged Colloids in an Asymmetric Ionic Solution</i>
CB-P2	Amna Waheed	<i>Prediction of Ryanodine Receptor States by the AlphaFold3 Server</i>
CB-P3	Boris Gomaz	<i>A Molecular Dynamics Workflow for Modelling the E. Coli Cell Wall</i>
CB-P4	Milica Popović	<i>Probing the Interaction of Ghrelin With the Human L-Type Calcium Channel Cav1.2 by Molecular Docking</i>
CB-P5	Matej Kožić	<i>Molecular Dynamics study of DNA interactions with inner E. Coli membrane</i>
CB-P6	Aleksandra Bibić	<i>Comparative Evaluation of Different Neural Network Architectures in Rectal Tumor Diagnosis on CT Images</i>
<b>Section V · Neurobiophysics (NB)</b>		
NB-P1	Miha Štorman	<i>Noise-Induced Resonance in a Model of the Hypothalamic–Pituitary–Adrenal Axis</i>
NB-P2	Stefana Dejković	<i>Priming the Defense: Low-Dose Irradiation Rapidly Activates Antioxidant Systems in BV2 Cells</i>

Section VII · Biomimetic and Functional Interfaces (BFI)		
BFI-P1	Tomas Biro	<i>Lysozyme and Spider Silk Amyloid Fibrils as Building Blocks for Novel Hydrogels</i>
BFI-P2	Bojan Božič	<i>Catalogue of shapes for prolate lipid vesicles with relative volumes below that of the twin shape</i>
BFI-P3	Mateo Šerić	<i>Electroformation of Giant Unilamellar Vesicles with High Cholesterol Contents from Damp Lipid Films under Physiological Conditions</i>
BFI-P4	Stefan Jelisić	<i>EPR Evaluation of Antioxidant Liposomal Chaga Extracts from Different Origins with Potential Relevance for Honeybee Oxidative Stress</i>
BFI-P5	Ana Popović Bijelić	<i>Tuning the Size of Protein-Based Physical Nanogels: The Role of pH and Ionic Strength</i>
BFI-P6	Michaela Hornychová	<i>Diamond vs. Gold: Interfacial Stability and Performance of QCM-Aptasensors for Oncogenic miRNA Detection</i>
Section VIII · Innovations in Imaging and Spectroscopy (IIS)		
IIS-P1	Mária Klacsová	<i>The interaction of SARS-CoV-2 antivirals with lipid systems: structural study</i>
IIS-P2	Sara Sardou	<i>Stability Assessment of Engineered Flagellar Filaments for Biosensing Applications</i>
IIS-P3	Viktória Szebellaiová	<i>Aptamer-Based Imaging Approaches for Cancer Detection</i>
IIS-P4	Ágnes Ábrahám	<i>Generation Gap in Microbial Societies: Do Older Bacteria Communicate Differently Than Younger Ones?</i>
IIS-P5	Damjan Stojčić	<i>Study of Collagen in Ligament Flavum by Polarized Second Harmonic Generation Microscopy</i>

IIS-P6	Gergely T. Iványi	<i>Optical waveguides deformed by guided light</i>
IIS-P7	Luis N. Ponce-Gonzalez	<i>Force and Solvent Effect on Protein Unfolding</i>
IIS-P8	Anastasiia Gavrilova	<i>The Role of Non-coding RNAs in Nucleolar Reorganization Under Stress</i>
<b>Section X · Systems Biophysics (SB)</b>		
SB-P1	Uroš Barać	<i>Multiscale synchronization in beta-cell networks: network analysis of cellular oscillations and secretion dynamics</i>
SB-P2	Andrej Dobovišek	<i>MEPP as a Structural Consequence of Thermodynamic Symmetry in Enzymatic Cycles</i>
<b>Section XI · Cellular Mechanics and Biophysical Regulation (CMR)</b>		
CMR-P1	Urška Andrenšek	<i>Surface Tension-Driven Elasticity of Circular Epithelia</i>
CMR-P2	Jasna Simonović Radosavljević	<i>FTIR Spectroscopy – Derived Insights into Cell Wall Remodeling in Twining Stems of <i>Dioscorea balcanica</i></i>