

# Programme

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Wednesday, September 28, 2022

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17:30    Opening ceremony

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18:00    The HDBMB Award for Contribution to the Development of  
Molecular Life Sciences

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*Chair: Marta Popović*

18:15    PL1    **IUBMB Plenary Award Lecture**  
**Kristijan Ramadan** (Oxford, UK)  
DNA-PROTEIN CROSSLINKS PROTEOLYSIS REPAIR:  
FROM HUMAN DISEASE TO CANCER THERAPY

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19:00    Welcome party

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**Thursday, September 29, 2022**

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*Chairs: Ivana Novak Nakir and Vedrana Filić*

- 9:00 L1 **Janoš Terzić** (Split, Croatia)  
ROLE OF GUT MICROBIOTA CARCINOGEN  
METABOLISM IN BLADDER CANCEROGENESIS
- 9:25 L2 **Andreja Ambriović Ristov** (Zagreb, Croatia)  
INTEGRIN ADHESION COMPLEXES IN SENSITIVITY  
OF TUMOUR CELLS TO ANTICANCER DRUGS
- 9:50 PL2 **Roger Williams** (Cambridge, UK)  
ACTIVATION OF PHOSPHOINOSITIDE 3-KINASE  
FAMILY MEMBERS IN HEALTH AND DISEASE

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10:35 Poster session – Odd numbered posters  
Exhibition and refreshment

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*Chairs: Maja Herak Bosnar and Ivica Strelec*

- 11:20 L3 **Lada Rumora** (Zagreb, Croatia)  
INTERPLAY BETWEEN EXTRACELLULAR HSP70 AND  
NLRP3 INFLAMMASOME IN CHRONIC  
OBSTRUCTIVE PULMONARY DISEASE
- 11:45 L4 **Vanda Juranić Lisnić** (Rijeka, Croatia)  
FROM CMV'S MOST ABUNDANT TRANSCRIPTS TO  
NOVEL CONCEPTS IN IMMUNE EVASION
- 12:10 SP1 **Ana Novačić** (Zagreb, Croatia)  
THE RNA EXOSOME COMPLEX INFLUENCES THE  
CELLULAR RESPONSE TO THE ANTI-CANCER DRUG  
5-FLUOROURACIL IN YEAST
- 12:25 SP2 **Valentina Ević** (Zagreb, Croatia)  
BENEFICIAL EFFECT OF MISTRANSLATION ON  
PROLIFERATION AND VIABILITY OF BACTERIA  
*Escherichia coli* IN OXIDATIVE STRESS
- 12:40 SP3 **Uršula Prosenc Zmrzljak** (Labena d.o.o.)  
ddPCR IN MEDICAL-RESEARCH AND  
BIOTECHNOLOGICAL APPLICATIONS

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12:55 Lunch Break

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*Chairs: Jasmina Rokov Plavec and Maja Katalinić*

- 14:15 L5 **Ivana Ivančić Baće** (Zagreb, Croatia)  
REGULATION OF THE *Escherichia coli* CRISPR-Cas SYSTEM AT TRANSCRIPTIONAL LEVEL AND CHANGE IN PROTEIN CONFORMATION
- 14:40 L6 **Ana Sunčana Smith** (Zagreb, Croatia)  
RECEPTOR AND MEMBRANE BIOMECHANICS IN IMMUNE CELL ACTIVITY
- 15:05 SP4 **Damir Baranašić** (London, UK)  
DYNAMICS AND LOCUS ORGANIZATION OF ENHANCERS REGULATING KEY FACTORS IN EARLY ZEBRAFISH DEVELOPMENT
- 15:20 SP5 **Andrea Gelemanović** (Split, Croatia)  
THE PROPENSITY OF AN ORGAN TO BECOME PRIMARY CANCER OR METASTATIC HOSTS IS ASSOCIATED WITH THEIR GENE EXPRESSION PATTERNS
- 15:35 SP6 **Domagoj Kifer** (Zagreb, Croatia)  
EVOLUTIONARY ORIGINS OF THE N-GLYCOSYLATION FROM THE PERSPECTIVE OF *HOMO SAPIENS* GENOME
- 15:50 SP7 **Marleen J. Meyer** (Greifswald, Germany)  
WHAT CAN WE LEARN ABOUT THE MECHANISMS OF OCT1 POLYSPECIFICITY USING INTERSPECIES COMPARISONS?
- 16:05 SP8 **Željka Pezer** (Zagreb, Croatia)  
GENOMIC STRUCTURAL VARIATION IN SPERM CELLS: INSIGHTS FROM OPTICAL MAPPING DATA

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16:20 Poster session - – Odd numbered posters  
Exhibition and refreshment

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*Chairs: Ljubica Glavaš Obrovac and Zrinka Kovarik*

- 17:00 L7 **Maja Herak Bosnar** (Zagreb, Croatia)  
NME6-AN UNUSUAL NUCLEOSIDE DIPHOSPHATE KINASE INVOLVED IN BASIC MITOCHONDRIAL FUNCTIONS

17:25	L8	<b>Mirta Boban</b> (Zagreb, Croatia) DEGRADATION-MEDIATED PROTEIN QUALITY CONTROL BY THE UBIQUITIN-PROTEASOME SYSTEM
17:50	SP9	<b>Mija Marinković</b> (Split, Croatia) <i>HDBMB Young Scientist Award 2021</i> INTERPLAY BETWEEN C TERMINAL BNIP3L/NIX PHOSPHORYLATION AND DIMERIZATION AS A NOVEL MECHANISM OF RECEPTOR-MEDIATED MITOPHAGY REGULATION
18:05	SP10	<b>Jan Homolak</b> (Zagreb, Croatia) <i>HDBMB Young Scientist Award 2021</i> GASTROINTESTINAL ALTERATIONS IN RAT MODELS OF ALZHEIMER'S AND PARKINSON'S DISEASE
18:20	SP11	<b>Ana Bura</b> (Rijeka, Croatia) THE OCULOCEREBRORENAL SYNDROME OF LOWE PROTEIN CONTROLS ACTIN AND MICROTUBULE REARRANGEMENTS DURING HUMAN PLATELET SPREADING
18:35	SP12	<b>Davor Šakić</b> (Zagreb, Croatia) MAKING RINGS FROM AMINO ACIDS. SHINING LIGHT ON POSSIBLE (CHEMO)EVOLUTION OF PROLINE
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20:00	Quiz night	
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**Friday, September 30, 2022**

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*Chairs: Antonija Jurak Begonja and Damjan Franjević*

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| 9:00  | L9   | <b>Ira Milošević</b> (Oxford, UK)<br>TOWARDS IMPROVING ORGANELLAR<br>ACIDIFICATION AND SYNAPTIC VESICLE<br>(RE)FILLING         |
| 9:25  | L10  | <b>Nicholas Bradshaw</b> (Rijeka, Croatia)<br>PROTEIN AGGREGATION IN SCHIZOPHRENIA AND<br>OTHER CHRONIC MENTAL ILLNESSES       |
| 9:50  | PL3  | <b>William F. Martin</b> (Düsseldorf, Germany)<br>HYDROTHERMAL VENTS HYDROGEN AND<br>TRANSITION METALS: SYNTHESIS TOWARDS LIFE |
| 10:35 | Poster session – Even numbered posters<br>Exhibition and refreshment |  |
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*Chairs: Tihomir Balog and Nicholas Bradshaw*

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| 11:20 | L11  | <b>Vanja Nagy</b> (Vienna, Austria)<br>DISCOVERING NOVEL RECEPTORS FOR THE<br>EXTRACELLULAR MATRIX THROUGH<br>UNDIAGNOSED MONOGENIC NEUROLOGICAL<br>DISORDERS                            |
| 11:45 | SP13 | <b>Kristina Mlinac Jerković</b> (Zagreb, Croatia)<br>THE EFFECT OF GANGLIOSIDES ON MEMBRANE<br>ION TRANSPORT IN MOUSE BRAIN  |
| 12:00 | SP14 | <b>Teuta Opačak-Bernardi</b> (Osijek, Croatia)<br>COMPOSITION OF SPHEROIDS FORMED BY<br>MAGNETIC LEVITATION  |
| 12:15 | SP15 | <b>Martina Šeruga Musić</b> (Zagreb, Croatia)<br>QUEST FOR PUTATIVE EFFECTORS OF<br>'CANDIDATUS PHYTOPLASMA SOLANI':<br>TOWARDS UNDERSTANDING OF A SUCCESSFULL<br>AND ADAPTABLE PATHOGEN |
| 12:30 | SP16 | <b>Tereza Maršić</b> (INEL, Zagreb, Croatia)<br>MEET QIAGEN QIAcuity DIGITAL PCR SYSTEM  |
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12:45 Lunch Break

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13:50 Excursion with Congress dinner

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**Saturday, October 1, 2022**

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*Chair: Jerka Dumić*

9:00 PL4 **FEBS National Lecture**  
**Irene Diaz Moreno** (Sevilla, Spain)  
CYTOCHROME C AS A CORNERSTONE IN THE  
NUCLEUS-MITOCHONDRIA CROSSTALK

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9:45 Poster session – Even numbered posters  
Exhibition and refreshment

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*Chairs: Nino Slnčić and Igor Stuparević*

10:25 PL5 **Luciane Vieira de Mello** (Liverpool, UK)  
EDUCATIONAL RESEARCH AND SCIENTIFIC  
TRAINING

11:05 L12 **Ferhan Sagin** (Ismir, Turkey)  
EDUCATION AND RESEARCH – NEW  
PERSPECTIVES

11:30 L13 **Boris Jokić** (Zagreb, Croatia)  
WHAT TO DO NEXT? – A NEW VISION FOR  
EDUCATION IN A TIME OF INSTABILITY AND  
UNCERTAINTY

11:55 panel **Luciane Vieira de Mello, Ferhan Sagin, Boris  
Jokić**  
Panel and discussion on education and science

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12:35 Closing ceremony and the Best Poster Award announcement  
sponsored by *FEBS Open Bio*

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