

Programme

Wednesday, September 28, 2022

17:30 Opening ceremony

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

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

19:00 Welcome party

Thursday, September 29, 2022

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

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

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

12:55 Lunch Break

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

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

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	Mirta Boban (Zagreb, Croatia) DEGRADATION-MEDIATED PROTEIN QUALITY CONTROL BY THE UBIQUITIN-PROTEASOME SYSTEM
17:50	SP9	Mija Marinković (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	Jan Homolak (Zagreb, Croatia) <i>HDBMB Young Scientist Award 2021</i> GASTROINTESTINAL ALTERATIONS IN RAT MODELS OF ALZHEIMER'S AND PARKINSON'S DISEASE
18:20	SP11	Ana Bura (Rijeka, Croatia) THE OCULOCEREBRORENAL SYNDROME OF LOWE PROTEIN CONTROLS ACTIN AND MICROTUBULE REARRANGEMENTS DURING HUMAN PLATELET SPREADING
18:35	SP12	Davor Šakić (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

Chairs: Antonija Jurak Begonja and Damjan Franjević

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

Chairs: Tihomir Balog and Nicholas Bradshaw

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

12:45 Lunch Break

13:50 Excursion with Congress dinner

Saturday, October 1, 2022

Chair: Jerka Dumić

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

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

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

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