Saturday, 202	1/7/3	
17:30 - 18:00	Kocka Hall Opening Ceremony Social Program	m
	Chair: Janko Kos, Congress Chair & President of Slovenian	
17:30 - 17:40 17:40 - 17:45	Janko Kos, Congress Chair & President of Slovenian Biochemical Society Jerka Dumic, Congress Co-chair & President of Croation Society of Biochemistry and Molecular Biology	
17:45 - 17:50 17:50 - 17:55 17:55 - 18:00	Vaclav Paces, Secretary General of FEBS Borut Pahor, President of the Republic of Slovenia (video presentation) Music – life Giovanni Masi: Silvius Weiss – Fantasia guitar	
18:00 - 19:00	Kocka Hall	
	Opening Plenary Lecture Chair: Janko Kos (SI)	es
18:00 - 19:00	The Nobel Laureate campaign supporting GMOs Roberts, Richard (United States of America)	
19:00 - 20:30	Other location Welcome from Linkling	20
	Welcome from Ljubljana Social Program	m
Sunday, 2021/	77/4	
08:00 - 08:45	Gallery Hall	
	Early Bird Session I: NGS is Everywhere Chairs: Tadeja Režen (SI) Nino Sinčić (CR) Early Bird Session	าร
08:00 - 08:10	Changes in DNA methylation and gene expression of zinc finger 714: a possible blood biomarker of suicidal behavour Kouter, Katarina (Slovenia)	
08:10 - 08:20	NGS in diagnostics of neurological disorders Gotovac Jerčić, Kristina (Croatia)	
08:20 - 08:30	Non-coding RNA of Extracellular vesicles in type 1 diabetes Tesovnik, Tine (Slovenia)	
08:30 - 08:40	cfDNA methylation as a stable diagnostic biomarker Krasić, Jure (Croatia)	
09:00 - 11:00	Kocka Hall	
	Autophagy and Protein Recycling Chairs: Patrizia Agostinis (BE) Nektarios Tavernarakis (GR)	<mark>a</mark>
09:00 - 09:30	Autophagy in lymphangiogenesis Agostinis, Patrizia (Belgium)	
09:30 - 10:00	Autophagic quality control in the nervous system: Physiology and pathology Tavernarakis, Nektarios (Greece)	
10:00 - 10:30	Organelle degradation by autophagy and autophagy-related pathways Mizushima, Noboru (Japan)	
10:30 - 10:45	Mitophagy is downregulated upon thermogenic stimulus in human beige adipocytes Shaw, Abhirup (Hungary)	
10:45 - 11:00	Lipid droplets and autophagy cooperate in the protection of cancer cells against metabolic stress Špela Koren (Slovenia)	

09:00 - 11:00	Marmorna Hall A	
	Genome Structure and Regulation Chair: Fernando Azorín (ES)	Symposia
09:00 - 09:30	DNA methylation, satellite repeats and genome stability: challenges and perspectives from rare genetic disorders Francastel, Claire (France)	
09:00 - 09:30	Epigenetic regulation of chromatin structure and function: the role of linker histones Azorin, Fernando (Spain)	
10:00 - 10:15	New insights into direct functions of BET proteins in transcription regulation Mayer, Andreas (Germany)	
10:15 - 10:30	The bacteriophage GIL01 take-over mechanisms of the host's SOS response Pavlin, Anja (Slovenia)	
09:00 - 11:00	Marmorna Hall B	
	Molecular Evolution and Phylogenetics	Symposia
	Chairs: Damjan Franjevic (HR) William Martin (DE)	
09:00 - 09:30	A hydrogen dependent geochemical analog of primordial carbon and energy metabolism Martin, William (Germany)	
09:30 - 10:00	Evolutionary analysis of the Bacillus subtilis genome reveals new genes involved in sporulation Mijakovic, Ivan (Sweden)	
10:00 - 10:30	Phylogeny-Ontogeny Correlations: Lessons From Microbial Biofilms Domazet-Lošo, Tomislav (Croatia)	
10:30 - 10:45	Investigation of functional annotations to enzyme classes reveals an extensive annotation error Rembeza, Elzbieta (Sweden)	
10:45 - 11:00	Pre-LUCA protein evolution reconstructed from an imprint conserved within the genetic code Davis, Brian (United States)	
09:00 - 11:00	Gallery Hall	
	Protein Biosynthesis and Expansion of the Genetic Code	Symposia
	Chairs: Ita Gruic Sovulj (HR) Nediljko Budisa (CA)	
09:00 - 09:30	Keeping translation canonical: Lessons from aminoacyl-tRNA synthetases Gruic Sovulj, Ita (Croatia)	
09:30 - 10:00	Recent advances in genetic code engineering in Escherichia coli Budisa, Nediljko (Canada)	
10:00 - 10:30	Dynamic changes in tRNA modifications and abundance during T-cell activation Pilpel, Yitzhak (Israel)	
10:30 - 10:45	Deciphering the mechanism of action of the bacterial translational inhibitor synthesized by Actinoplanes sp. VKM Ac-2862 Lisevich, Ira (Russia)	
10:45 - 11:00	Emerging noncanonical functions of plant aminoacyl-tRNA synthetase Rokov-Plavec, Jasmina (Croatia)	
09:00 - 11:00	Povodni mož Hall	
	Protein Folding and Misfolding	Symposia
	Chairs: Nataša Poklar Ulrih (SI) Franz-Ulrich Hartl (DE)	
09:00 - 09:30	Rational design of oligomer-specific antibodies as diagnostic tools for Alzheimer's and Parkinson's	
	diseases Vandrussala Michala (United Kingdom)	
09:00 - 09:30	Vendruscolo, Michele (United Kingdom) Protein folding stability in the cell and its possible implication for phase separation	
09:00 - 09:30 09:00 - 09:30	Vendruscolo, Michele (United Kingdom)	

10:30 - 10:45	therapeutic strategy for primary hyperoxaluria type I
10:45 - 11:00	Pampalone, Gioena (Italy) A tryptophan 'gate' in the CRISPR-Cas3 nuclease controls ssDNA entry into the nuclease site in Escherichia coli Ivančić Baće, Ivana (Croatia)
11:00 - 11:30	Other location Coffee Break Coffee Break
11:30 - 12:30	Kocka Hall FEBS Sir Hans Krebs Lecture Chair: Frank Michelangeli (UK) Plenary Lectures
11:30 - 12:30	RNA silencing, disease resistance and the inheritance of acquired characteristics Baulcombe, David C. (United Kingdom)
12:30 - 14:30	Other location Lunch & Poster Sessions Lunch & Poster Sessions
14:30 - 15:30	Kocka Hall EMBO Lecture Chair: Vaclav Paces (CZ)
14:30 - 15:30	Autophagy as an aging decelerator Kroemer, Guido (France)
15:30 - 16:00	Other location Coffee Break Coffee Break
16:00 - 18:00	Kocka Hall Proteolytic Processing Chairs: Boris Turk (SI) Seamus J Martin (IE) Symposia
16:00 - 16:30	Matrix remodeling as early pathophysiological biomarker Sagi, Irit (Israel)
16:30 - 17:00	Extracellular cysteine cathepsins: from signalling to matrix degradation Turk, Boris (Slovenia)
17:00 - 17:30	Neutrophil proteases: anti-microbial agents or key instigators of inflammation? Martin, Seamus (Ireland)
17:30 - 17:45	From ubiquitin-independent degradation to ubiquitin degradation – A signature activity of emergency 20S proteasome in hypoxia Sahu, Indrajit (Israel)
17:45 - 18:00	Identifying PRRSV CD8+T cell epitopes using a tailored vector system Mötz, Marlene (Austria)

16:00 - 18:00	Marmorna Hall A RNA Function Chairs: Štepánka Vanácová (CZ) Jernej Ule (UK)	Symposia
16:00 - 16:30 16:00 - 16:30 16:00 - 16:30 17:30 - 17:45 17:45 - 18:00	TDP-43 condensation properties specify its RNA binding and regulation Ule, Jernej (United Kingdom) Understanding tissue-specific protein composition of RNA-based enzymes Murn, Jernej (United States of America) The molecular mechanisms of cytoplasmic RNA quality control in human cells. Vaňáčová, Štěpánka (Czech Republic) NAD-capping: a universal RNA modification in Mycobacteria, Archaea and Escherichia coli Ruiz, Olatz (Czech Republic) New targets for drug design: Importance of nsp14/nsp10 complex formation for the 3'-5' exoribonucleolytic activity on SARS-CoV-2 Saramago, Margarida (Portugal)	
16:00 - 18:00	Marmorna Hall B Epigenetics Chairs: Oliver Vugrek (HR) Christof Niehrs (DE)	Symposia
16:00 - 16:30 16:30 - 17:00 17:00 - 17:30 17:30 - 17:45 17:45 - 18:00	DNA demethylation and aging Niehrs, Christof (Germany) Mass spectrometry-based epigenetic mapping of clinical samples for biomarker discovery and (breast) cancer patient stratification Bonaldi , Tiziana (Italy) Epigenome deregulation in cancer Herceg, Zdenko (France) Investigating the link between DNA replication, chromatin change and transcriptional regulation during in vivo erythroid differentiation Beagrie, Robert (United Kingdom) Novel approach for genome-wide high-resolution profiling of 5-hydroxymethylcytosine and its application for neuroblastoma analysis Narmontė, Milda (Lithuania)	
16:00 - 18:00	Gallery Hall Protein Localization and Dynamics Chairs: Maja Herak Bosnar (HR) Anna Akhmanova (NL)	Symposia
16:00 - 16:30 16:00 - 16:30 16:00 - 16:30 17:30 - 17:45 17:45 - 18:00	ER-Golgi contact sites De Matteis, Maria Antonietta (Italy) Oscillatory dynamics of Rac1 activity in amoeboid cell motility Weber, Igor (Croatia) Control of microtubule organization and dynamics: Seeing proteins and drugs in action. Akhmanova, Anna (Netherlands) Self-organization in a Rab GTPase regulatory network Bezeljak, Urban (Austria) Ceramide chain length—dependent protein sorting into selective endoplasmic reticulum exit sites Rodriguez-Gallardo, Sofia (Spain)	
16:00 - 18:00	Povodni mož Hall FEBS Special Session on Research and Career Skills – Assessment of Research and Researchers Chairs: Laszlo Fesus (HU) Mary Purton (UK)	Workshops
16:00 - 16:20	Scientific impact and the quest for visibility Madsen, Ralitsa (United Kingdom)	

16:20 - 16:40	Current academic reward systems in relation to research integrity Fésüs, László (Hungary)
16:40 - 17:00	Assessment of scientists for hiring, promotion and tenure at German universities and research institutes
	Brunner, Michael (Germany)
17:00 - 17:10	Assessing research outputs: alternatives to the Journal Impact Factor Purton, Mary (United Kingdom)
17:10 - 18:00	Panel discussion
18:15 - 19:15	Marmorna Hall A
	Speed Talk Session 1: Molecular Genetics , Education Speed Talks
	Chair: Damjana Rozman (SI)
18:15 - 18:20	Rearrangement of nuclear lamina complexes during stress – identification and quantification of lamin - associated proteome after heat shock induction Pałka, Marta (Poland)
18:20 - 18:25	
18:25 - 18:30	DDIT4 gene expression is switched on by a new HDAC4 function in ataxia teleangiectasia Ricci, Anastasia (Italy)
18:30 - 18:35	tRNA 2'-O-methylation by TRM7/FTSJ1 proteins modulates small RNA silencing and tRNA fragmentation Dimitrova, Dilyana (France)
18:35 - 18:40	A novel method for reliable detection of somatic retroelement insertions
	Urazbakhtin, Shamil (Russia)
18:40 - 18:45	DNA hypomethylating drug induces oxidative stress in the mammalian embryo and placenta during gestation Bulic-Jakus, Floriana (Croatia)
18:45 - 18:50	
18:50 - 18:55	Riboregulation of human Serine Hydroxymethyltransferase activity in cellular metabolism Liberati, Francesca Romana (Italy)
18:55 - 19:00	Bringing a well-run lab book back into focus: Experience from the education workshop Sincic, Nino (Croatia)
18:15 - 19:15	Marmorna Hall B
	Speed Talk Session 2: Protein Turnover, Organisms-
	Molecules Interactions
	Chair: Marko Dolinar (SI)
18:15 - 18:20	Post-transcriptional transfer RNA modifications as modulators of heterologous protein production Hotti, Hannu (Finland)
18:20 - 18:25	Reconstruction of multifactor human translation termination complex Egorova, Tatiana (Russia)
18:25 - 18:30	Altered autophagy-dependent c-Src/Fyn degradation in Huntington's Disease – impact on NMDAR activity Fão, Lígia (Portugal)
18:30 - 18:35	The role of N and M domains of Sup35 yeast protein in biomolecular condensate formation Gorsheneva, Natalia (Russia)
18:35 - 18:40	Development of a bio-active fluorescent inhibitor probe targeting the Rho kinase ROCK for monitoring inhibition action Corret, Justine (France)
18:40 - 18:45	Investigating the function of the Anaphase Promoting Complex ubiquitin ligase in the regulation of mitochondrial ATP synthase beta subunit Leite, Ana Cláudia (Portugal)

	18:45 - 18:50	Conformational flexibility and allosteric modulation in a heme-binding resurrected ancestral glycosidase Gutierrez Rus, Luis Ignacio (Spain)		
	18:50 - 18:55	Intercellular communication: new method to estimate the transnodal exchange of photometabolites in green algae Alova, Anna (Russia)		
	18:55 - 19:00	Characterization of recombinant protein components of the photoprotective system of marine cyanobacterium Crocosphaera watsonii Botnarevskii, Viacheslav (Russia)		
	19:00 - 19:05	OCRL controls actin reorganization in spreading and activation of human planura, Ana (Croatia)	atelets	
18	:15 - 19:15	Gallery Hall		
		European Research Infrastructure and Initiatives Session Chair: Irena Mlinaric Rašcan (SI)	Special Sessions & Workshops	
	18:15 - 18:45	EU-PEARL: Changing the paradigm of clinical trials in Europe Cash-Gibson, Lucinda (Spain)		
	18:45 - 19:15	ELIXIR Europe Smith, Andrew (United Kingdom)		
18	:15 - 19:15	Povodni mož Hall		
		Structural Biology Publications – How to improve results, presentation and write a better paper Chair: Alexander Wlodawer (US)	Special Sessions & Workshops	
	18:15 - 18:35	How to publish and how not to publish structural results Wlodawer, Alexander (United States of America)		
	18:35 - 18:55	Application of the Mol* 3D Molecular Viewer to Proteopedia Sussman, Joel (Israel)		
	18:55 - 19:15	Jaime Prilusky, Rehovot, Israel		
Mo	nday, 2021	L/7/5		
08	:00 - 08:45	Gallery Hall		
		Early Bird Session II: How to Improve Immunotherapy of Cancer Chair: Maja Cemažar (SI)	Early Bird Sessions	
	08:00 - 08:10	An enhanced CRISPR tool for treating chronic myelogenous leukemia		
	08:10 - 08:20	Lainšček, Duško (Slovenia) Increasing natural killer cell cytotoxicity by targeting cystatin F Perisic Nanut, Milica (Slovenia)		
	08:20 - 08:30	Treatment induced upregulation of DNA sensing pathways as a mechanism immune response Jesenko, Tanja (Slovenia)	for inducing anti-tumor	
	08:30 - 08:40	Amniotic membrane as a multimodal therapy of bladder cancer: targeting to potential of urothelial cancer cells Železnik Ramuta, Taja (Slovenia)	he growth and invasive	
		· · · · · · · · · · · · · · · · · ·		
09	:00 - 11:00	Kocka Hall		

Chairs: Dusan Turk (SI) Wolfgang Baumeister (DE)

Baumeister, Wolfgang (Germany)

09:00 - 09:30 Structural Biology in situ: The Promise and Challenges of Cryo-Electron Tomography

09:00 - 09:30	Serial crystallography with X-ray free-electron lasers Chapman, Henry (Germany)
09:00 - 09:30	Eliminating specimen movement in electron cryomicroscopy of biological molecules
10:30 - 10:45	Russo, Christopher J (United Kingdom) Determination of Intermediate State Structures in the Opening Pathway of SARS-CoV-2 Spike Using
	Cryo-Electron Microscopy
10:45 - 11:00	Brotzakis, Zacharias Faidon (United Kingdom) Abolishing "structural blindness" in metalloproteins: PioC, a NOE-less protein structure
	B. Trindade, Inês (Portugal)
09:00 - 11:00	Marmorna Hall A
	Neurobiochemistry Symposia
	Chairs: Zrinka Kovarik (HR) Jean-Pierre Changeux (FR)
09:00 - 09:30	Transcriptional regulation of acetylcholinesterase in different cell types: an enzyme in non-neuronal functions?
	Tsim, Karl (China)
09:00 - 09:30	Modulation of synaptic signalling by adenosine and cannabinoids Sebastiao, Ana (Portugal)
09:00 - 09:30	The nicotinic receptor modulation of higher brain functions: from chemistry to cognition
10:30 - 10:45	Changeux, Jean Pierre (France) Altered Levels of Cholinesterase Splice Variants in Parkinson's and Alzheimer's Disease Brains
10:45 - 11:00	Gok, Muslum (Turkey) Activation of the membrane receptor RAGE by its fragment 60-76 stimulates calcium signal in neurons
10.43 - 11.00	Kamynina, Anna (Russia)
09:00 - 11:00	Marmorna Hall B
03.00 11.00	Imaging for Life: From Molecules to Organisms Symposia
	Chairs: Robert Zorec (SI) Ling-Gang Wu (US)
09:00 - 09:30	Super-resolution imaging of the nanoscale geometry and dynamics of the brain extracellular space in
	live tissue
	Tonnesen, Jan (Spain)
09:00 - 09:30	Tonnesen, Jan (Spain) Imaging the length of a single vesicular SNARE protein and its role in fusion pore regulation
	Tonnesen, Jan (Spain) Imaging the length of a single vesicular SNARE protein and its role in fusion pore regulation Jorgacevski, Jernej (Slovenia) Vesicle Shrinking and Enlargement Play Opposing Roles in the Release of Exocytotic Contents
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09:00 - 09:30 10:30 - 10:45 10:45 - 11:00 09:00 - 11:00 09:00 - 09:30 09:00 - 09:30 09:00 - 09:30	Tonnesen, Jan (Spain) Imaging the length of a single vesicular SNARE protein and its role in fusion pore regulation Jorgacevski, Jernej (Slovenia) Vesicle Shrinking and Enlargement Play Opposing Roles in the Release of Exocytotic Contents Wu, Ling-Gang (United States of America) Early fluorescent imaging of de novo synthesized proteins based on coiled-coils heterodimerization Perfilov, Maxim (Russia) Development of coumarin-based membrane probes for live-cell STED nanoscopy Pajk, Stane (Slovenia) Gallery Hall Membranes Symposia Chairs: Igor Križaj (SI) Christian Eggeling (DE) Membrane dynamics at cellular lipid storage sites Ikonen, Elina (Finland) Lipid membranes modulate the activity of RNA through sequence-specific interactions Saenz, James P. (Germany) Dissecting molecular membrane organization - a super-resolution fluorescence spectroscopy story Eggeling, Christian (Germany)

09:00 - 11:00	Povodni mož Hall Receptor–Ligand interactions Chairs: Kristina Sepcic (SI) David Craik (AU)	<mark>a</mark>
09:00 - 09:30	Cyclotides: bioactive peptides from plants with applications in drug design and agriculture	
09:00 - 09:30	Craik, David (Australia) How animal toxins contribute to explore the role of ASIC channels in pain Diochot, Sylvie (France)	
10:00 - 10:30	Role of neuroendocrine signalling in early development of bivalve molluscs: interference by environmental stress Canesi, Laura (Italy)	
10:30 - 10:45	Translocation of protein antibiotics: How do Colicins B and D penetrate into E. coli? Cohen Khait, Ruth (United Kingdom)	
10:45 - 11:00	Functioning mechanisms of bitopic membrane proteins revealed by structural-dynamic studies of intra- and intermolecular interactions of their transmembrane domains Bocharov, Eduard (Russia)	
11:00 - 11:30	Other location	
	Coffee Break	k
11:30 - 12:30	Kocka Hall	
	FEBS 2021 Plenary Lecture Plenary Lecture	S
44.20, 42.20	Chair: Miguel de la Rosa (ES)	
11:30 - 12:30	Structural and mechanistic insights into eukaryotic protein synthesis Ban, Nenad (Switzerland)	
12:30 - 13:30	Gallery Hall	
	Meet the Expert Session I Meet the Expe	rt
	Chair: Aleš Berlec (SI)	
12:30 - 13:00 13:00 - 13:15	KEMOMED NanoTemper: No more limitations in your research - measure the most challenging interactions with MST Natalia Kubisa	
13:15 - 13:20	Avantor/VWR	
13:20 - 13:25 13:25 - 13:30	METTLER TOLEDO Labtim	
12:30 - 14:30	Other location	
12.30 14.30	Lunch & Poster Sessions Lunch & Poster Sessions	ıs
		_
14:30 - 15:50	Kocka Hall	
	FEBS/EMBO Women in Science Award Lectures Plenary Lecture	S
	Chairs: Cecilia Arraiano (US) Gerlind Wallon (DE)	
14:30 - 15:10	Defining Intrinsic Determinants of Regeneration Ability and Inability Tanaka, Elly (Austria)	
15:10 - 15:50	Exploring the interface between living and non living matter to transform health Stevens, Molly (United Kingdom)	

15:45 - 16:00	Other location Coffee Break	offee Break
16:00 - 18:00	Kocka Hall Bionanotechnology Chairs: Gregor Anderluh (SI) Giovanni Maglia (NL)	Symposia
16:00 - 16:30	Design and engineering nanopores for single-protein analysis and sequencing Maglia, Giovanni (Netherlands)	
16:30 - 17:00	Designing membrane proteins using DNA: From ion channels to lipid scramblases Keyser, Ulrich (United Kingdom)	
17:00 - 17:30	Towards the buildup of magic bullet: multifunctional nanostructures for cancer diagnostics and treatment Shipunova, Victoria (Russia)	
17:30 - 17:45	In situ rewiring of membrane receptors and signal transduction by light Sánchez, Maria Florencia (Germany)	
17:45 - 18:00	Genetic code expansion: Enhancing biological nanopores with novel chemistry Crnković, Ana (Slovenia)	
16:00 - 18:00	Marmorna Hall A	
	Designed Regulatory Circuits and Genome Editing Chairs: Roman Jerala (SI) Martin Fussenegger (CH)	Symposia
16:00 - 16:30	Toward A World of ElectroGenetics Fussenegger, Martin (Switzerland)	
16:30 - 17:00	Unlocking CRISPR technology for precise and efficient genome editing Cereseto, Anna (Italy)	
17:00 - 17:30	Next-level riboswitch development - Implementation of Capture-SELEX allows fast and easy identification of new synthetic riboswitches Suess, Beatrix (Germany)	
17:30 - 17:45	Timing the cell: towards a synthetic bio-clock Lai, Giorgio (United Kingdom)	
17:45 - 18:00	Modulation of long non-coding RNA Gas5 splicing using CRISPR/Cas9 editing of small nucleolar RN genes Matveeva, Anastasiya (Russia)	IA
16:00 - 18:00	Marmorna Hall B	
	Structures of Nucleic Acids Chairs: Janez Plavec (SI) Harald Schwalbe (DE)	Symposia
16:00 - 16:30	G-quadruplexes recruit transcription factors to promote gene expression in human cells and virus Richter, Sara (Italy)	es
16:00 - 16:30	Quadruplexes are everywhere! Mergny, Jean-Louis (France)	
16:00 - 16:30	Conformational Dynamics of unusual DNA structures: Insights to G Quadruplex Folding Pathways Real-Time NMR-spectroscopy Schwalbe, Harald (Germany)	by
17:30 - 17:45	Pyrene modified analogues of thrombin binding aptamer exhibit unique structural features Kovačič, Matic (Slovenia)	
17:45 - 18:00	Cryo-EM reconstruction of the Candida Albicans 80S ribosome Zgadzay, Yury (France)	

16:00 - 18:00 16:00 - 16:30	FEBS Special Session on Science and Society - Plastic Revolution, Pollution and Substitution Chairs: Emmanouil Fragkoulis (GR) Raffaele Porta (IT) Introduction
16:30 - 17:00	Raffaele Porta (Italy) From plastics to microplastics and organisms Bajt, Oliver (Slovenia)
17:00 - 17:30	The role of biotechnology in the transition from plastics to bioplastics Fabbri, Paola (Italy)
17:30 - 18:00	Active biopackaging produced from by-products and wastes from food and marine industries Debeaufort, Frederic
16:00 - 18:00	Povodni mož Hall
	FEBS Special Session on Gender Issues in Science Chair: Cecilia Arraiano (US) Special Sessions & Workshops
16:00 - 16:20	Women in Science across Europe - North/West, South/East: Different backgrounds, same challenges Dumic, Jerka (Croatia)
16:20 - 16:40	From the Bench to the Boardroom: Lessons learned Swanson, Michele (United States)
16:40 - 17:00	Women in science: Is positive discrimination the right decision? Gallego, Carme (Spain)
18:15 - 19:15	Marmorna Hall A Speed Talk Session 3: Signals, Membranes, Glycans and Lipids Chair: Ajda Taler-Vercic (SI)
18:15 - 18:20	Structure and substrate specificity determinants of the taurine biosynthetic enzyme cysteine sulphinic acid decarboxylase Mahootchi, Elaheh (Norway)
18:20 - 18:25	VEGF and VEGFR2 binding to fibronectin Mitsi, Maria (Switzerland)
18:25 - 18:30	CHOLESTEROL STIMULATES PORE FORMING ACTIVITY OF BORDETELLA ADENYLATE CYCLASE TOXIN PROMOTING OLIGOMERIZATION Amuategui, Jone (Spain)
18:30 - 18:35	Identification of the physiological roles of the surface-exposed loops of chitin-uptake channel from the marine bacterium Vibrio campbellii type strain BAA 1116 Suginta, Wipa (Thailand)
18:35 - 18:40	Functional characterization of seven novel APOE variants found in patients with Primary Hypercholesterolemia Larrea, Asier (Spain)
18:40 - 18:45	Role of Ceramide and ER Stress in the Antiproliferative Effects of Thymoquinone in MCF-7 and HepG2 Cancer Cells Aslan, Mutay (Turkey)
18:45 - 18:50	Fungal extracellular particles and their relevance in adaptation to osmotic stress Lavrin, Teja (Slovenia)
18:50 - 18:55	Tebuconazole induces apoptosis through ROS-mediated endoplasmic reticulum stress pathway Y. Ben Othmène (Tunisia)
18:55 - 19:00	Assessment of a common food additive E407a toxicity Tkachenko, Anton (Ukraine)
19:00 - 19:05	Glucose metabolism in cultured rat astrocytes Fink, Katja (Slovenia)

18:15 - 19:15 Marmorna Hall B Speed Talk Session 4: Structural Biology, Imaging, New Speed Talks drugs Chair: Marinka Drobnic Košorok (SI) 18:15 - 18:20 Biosynthesis-assisted structural study of the gausemycins, novel lipoglycopeptide antibiotics Alferova, Vera (Russia) 18:20 - 18:25 CryoEM structure of PSII assembly intermediate: insights into the role of auxiliary proteins Zabret, Jure (Germany) 18:25 - 18:30 Development of nanobody-based probes as non-invasive tools for molecular imaging theragnosis of **GBM** Ruiz-López, Eduardo (Spain) 18:30 - 18:35 Miscoding properties of abasic site adducts with methoxyamine, an antitumor base excision repair inhibitor Yudkina, Anna (Russia) 18:35 - 18:40 Ru(III)-complexes as novel therapeutical approach in breast cancer: evaluation of triggered cell death pathways Ferraro, Maria Grazia (Italy) 18:40 - 18:45 The development of new low-molecular-weight allosteric antagonists of thyroid-stimulating hormone receptor and their effect on the basal and thyroliberin-stimulated Bakhtyukov, Andrey (Russia) ATP-competitive dual DNA gyrase and topoisomerase IV inhibitors with broad spectrum antibacterial 18:45 - 18:50 activity and low potential for resistance acquisition

Novel fluorescent and photosensitive colchicine derivatives for cancer theranostics and

Mutually beneficial cooperation of MSC and HUVEC in the early steps of angiogenesis

Aging of multipotent stem cells (MSC) leads to specific changes in microRNAs secreted within

20:00 - 21:00 Other location

Host societies forum

Durcik, Martina (Slovenia)

Beloglazova, Irina (Russia)

Voinova, Elizaveta (Russia)

photodynamic therapy Škubník, Jan (Czech Republic)

Special Sessions & Workshops

Chair: Janko Kos (SI)

- > Bilateral and Regional Collaboration - Past, Present, Future > (Janko Kos, Jerka Dumić, Zrinka Kovarik, Marinka Drobnič Košorok) >- > Biochemical Education - Societies Actions > (Blaž Cigić, Aljoša Bavec, Nino Sinčić)>->Biochemical Terminology in Local Languages > (Matjaž Zorko, Marko Dolinar)>- > General Discussion>

Tuesday, 2021/7/6

18:50 - 18:55

18:55 - 19:00

19:00 - 19:05

08:00 - 08:45 Gallery Hall

Early Bird Session III: New Approaches in Medicinal Chemistry

extracellular vesicles potentially promoting insulin resistance

Early Bird Sessions

	Chair: Iztok Turel (SI)
08:00 - 08:10	Inhibiting cysteine cathepsins by targeting sites outside of the active site Novinec, Marko (Slovenia)
08:10 - 08:20	Cathepsin X inhibition – new approach for improvement of cathepsin B directed antipeptidase therapy Mitrović, Ana (Slovenia)
08:20 - 08:30	Potentiation of the antitumor effect of electrochemotherapy with bleomycin, cisplatin or oxaliplatin by immunostimulation with IL-12 gene electrotransfer depends on the tumor immune status Ursic, Katja (Slovenia)

08:30 - 08:40	PROTACS as tools for the modulation of pharmacological targets Sosič, Izidor (Slovenia)	
09:00 - 11:00	Kocka Hall Stem Cells and Regenerative Medicine Chairs: Miomir Kneževic (SI) Stephen Minger (UK)	nposia
09:00 - 09:30 09:00 - 09:30 09:00 - 09:30 10:30 - 10:45 10:45 - 11:00	Stem cell-based modelling of complex diseases Apati, Agota (Hungary) Understanding human liver development using single cell analyses and organoids Vallier, Ludovic (United Kingdom) Safe and Allo-Tolerated Pluripotent Stem Cell Line: A Global Source for Off-the-Shelf Therapeutic Cell Products Nagy, Andras (Canada) Single dose application IGF-1 and HGF Induced Bone Marrow Mesenchymal Stem Cells Reduced Proteinuria in Focal Segmental Glomerulosclerosis Model Sahan, Ozge Burcu (Turkey) New model for the study of mouse embryo implantation Izmaylova, Liubov (Russia)	
09:00 - 11:00	Marmorna Hall A Plant Biotechnology Chairs: Maja Ravnikar (SI) Mario Pezzotti (IT)	nposia
09:00 - 09:30 09:00 - 09:30 10:00 - 10:30 10:30 - 10:45 10:45 - 11:00	Can in-field testing help us to better use crop protection products? Boonham, Neil (United Kingdom) Plasticity and GXE interaction in grapes Pezzotti, Mario (Italy) Design of plant biofactories using the Nicotiana chassis Orzaez, Diego (Spain) Developing insect sex pheromone production in plants with the support of transcriptomic data Juteršek, Mojca (Slovenia) Investigation of the Antioxidant Effects of Glycyrrhizin-containing Nanoemulsion Formulations in Streptozotocin-induced Diabetic Rats Duysak, Lale (Turkey)	
09:00 - 11:00	Marmorna Hall B Immunotherapy Chairs: Janoš Terzic (HR) Stefan Rose-John (DE)	<mark>nposia</mark>
09:00 - 09:30 09:30 - 10:00 10:00 - 10:30 10:30 - 10:45 10:45 - 11:00	The role of the gut microbiota in drug response and toxicity Zimmermann, Michael (Germany) Interleukin-6 and ADAM17 in Inflammation and Cancer Rose-John, Stefan (Germany) Neutrophils predict T-cell depletion and anti-PD1 treatment failure in NSCLC Kargl, Julia (Austria) Regulatory T cells for immunotherapy of autoimmune diseases Pohar, Jelka (Slovenia) IgE epitope-like peptides and their potential in immunotherapy of life-threatening allergies Lunder, Mojca (Slovenia)	

09:00 - 11:00	Gallery Hall Pharmacogenomics and Biomarkers	Symposia
	Chairs: Jerka Dumic (HR) Magnus Ingelman-Sundberg (SE)	symposia
09:00 - 09:30	Mode of action and therapeutic potential of the ER stress regulating protein CDNF Saarma, Mart (Finland)	
09:00 - 09:30	Diagnostic Proteomic Biomarkers to detect Kidney Diseases Ozben, Tomris (Turkey)	
09:00 - 09:30		
10:30 - 10:45		
10:45 - 11:00	Insights into the biological role of thiopurine S-methyltransferase Urbančič, Dunja (Slovenia)	
09:00 - 11:00	Povodni mož Hall	
	Biochemistry of Toxins Chairs: Maja Šegvic Klaric (HR) Isabelle Oswald (FR)	<mark>Symposia</mark>
09:00 - 09:30	The challenge of investigating the toxicity of mycotoxins	
09:30 - 10:00	Oswald, Isabelle (France) Cyanotoxins: Adverse effects beyond acute toxicity Žegura, Bojana (Slovenia)	
10:00 - 10:30		
10:30 - 10:45		
10:45 - 11:00	Novel insights into pore-forming process of listeriolysin O using solution and solid-state NMR Kozorog, Mirijam (Slovenia)	
11:00 - 11:30		
	Coffee Break Coff	ee Break
11:30 - 12:30	Kocka Hall	
	IUBMB Lecture Chair: Alexandra Newton (US)	Lectures
11:30 - 12:30		
12:30 - 13:30	Gallery Hall	
	Meet the Expert Session II Chair: Bojan Doljak (SI)	ne Expert
12:30 - 12:50	ZEISS Microscopy: Discover(ing) the Subcellular Dynamics of Life Christine Strasser	
12:50 - 12:55	European Life Science Research Infrastructures: What are research infrastructures and how can they help me? Natalie Haley	
12:55 - 13:15		
13:15 - 13:20		

13:20 - 13:25 13:25 - 13:30	THE ROYAL SOCIETY PUBLISHING FUJIFILM Wako Chemicals Europe GmbH	
12:30 - 14:30	Other location Lunch & Poster Sessions Lunch & Poster Sessions	
14:30 - 15:30	Kocka Hall FEBS Education Plenary Lecture Chairs: Jerka Dumic (HR) Ferhan Sagin (TR)	
14:30 - 15:30	Why Science Education is More Important than Most Scientists Think Alberts, Bruce (United States of America)	
15:30 - 16:00	Other location Coffee Break Coffee Break	
16:00 - 18:00	Kocka Hall New Frontiers in Medicinal Chemistry Chairs: Marijeta Kralj (HR) Stanislav Gobec (SI)	
16:00 - 16:30	Novel tools and drugs for G proteins and G protein-coupled receptors Müller, Christa E. (Germany)	
16:00 - 16:30	Geometric Isomers of 4-Styrylpiperidine Discriminate between Monoamine Oxidase Isoforms A and B Gobec, Stanislav (Slovenia)	
16:00 - 16:30	Addressing Alzheimer's disease complexity with multi-target-directed ligands Bolognesi, Maria Laura (Italy)	
17:30 - 17:45	Novel potent PSMA ligands and their docetaxel conjugates: in vitro and in vivo evaluation Machulkin, Aleksei (Russia)	
17:45 - 18:00	Safety and efficacy of a promising cationic nucleolipid formulation for the nanodelivery in vivo of an anticancer ruthenium(III) complex in human preclinical models of breast cancer Piccolo, Marialuisa (Italy)	
16:00 - 18:00	Marmorna Hall A Molecular Machines Chairs: Brigita Lenarcic (SI) Kristina Djinović Carugo (AT)	
16:00 - 16:30	Towards molecular architecture of the muscle Z-disk assembly Djinovic Carugo, Kristina (Austria)	
16:00 - 16:30	Unveiling transcriptional and extra-transcriptional roles of the RNA Polymerase III machinery Vannini, Alessandro (United Kingdom)	
16:00 - 16:30	The structure of human thyroglobulin Löwe, Jan (United Kingdom)	
17:30 - 17:45 17:45 - 18:00	Gating movements and ion permeation in HCN4 pacemaker channels Saponaro, Andrea (Italy) Oligomeric self-assembly of a coiled-coil-based bipyramidal protein cage Lapenta, Fabio (Slovenia)	
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16:00 - 18:00	Marmorna Hall B Mechanisms of Microbiome–Host Interactions Chairs: Maja Rupnik (SI) David Berry, Austria (AT)
16:00 - 16:30	Exploring microbiome function using single-cell isotope probing Berry, David (Austria)
16:30 - 17:00	Intestinal antibodies in the context of the gut ecosystem Slack, Emma (Switzerland)
17:00 - 17:30	Health effects of microbiota mediated food transformations Rajilić-Stojanović, Mirjana (Serbia)
17:30 - 17:45	Microbiota-derived short-chain fatty acids as modulators of intestinal serotonin transporter Latorre, Eva (Spain)
17:45 - 18:00	Effect of per oral administration of the ŽP strain, a new potential probiotic, on intestinal microbiota and immune status of rat and chicken Starčič Erjavec, Marjanca (Slovenia)
16:00 - 18:00	Gallery Hall
	FEBS/IUBMB Special Session on Education I Chairs: Ferhan Sagin (TR) Angel Herráez (ES)
16:00 - 16:10 16:10 - 16:50	Introduction Exploring New Horizons in Education: Using Multiple Pathways to Enhance and Energize Science Instruction Zadina, Janet (United States of America)
16:50 - 17:30	Implementing cognitive science research in the undergraduate science classroom Davidesco, Ido (United States of America)
17:30 - 18:00	Q&A
16:00 - 18:00	Povodni mož Hall
	Bioinformatics and Computational Biology Symposia Chaire: Kristian Vlahevirelk (UR) Patr Symbods (C7)
16:00 - 16:30	Chairs: Kristian Vlahovicek (HR) Petr Svoboda (CZ) Evolution of small RNA pathways in rodents
10.00 - 10.50	Svoboda, Petr (Czech Republic)
16:30 - 17:00	Exascale biology: From genome to climate with a few stops along the way Jacobson, Daniel (United States of America)
17:00 - 17:30	Computational modeling of RNA and RNP 3D structures, with the use of experimental data Bujnicki, Janusz Marek (Poland)
17:30 - 17:45	The abundance of intrinsic disorder in proteins, associated with aging Manuylov, Vladimir (Russia)
17:45 - 18:00	A rational approach for structure design based on a new architectural level Périn, Charlotte (France)
18:15 - 19:15	Marmorna Hall A
	Speed Talk Session 5: Synthetic and System Biology, Bioinformatics and Biomarkers Chair: Aleš Berlec (SI)
18:15 - 18:20	Method for controlling bacterial cell metabolism Panina, Julia (Russia)
18:20 - 18:25	Design of a coiled-coil protein origami with controllable self-assembly Aupič, Jana (Slovenia)
18:25 - 18:30	Programmable External Network based Compartmentalized Self-Replication (PEN CSR): a new method for in vitro directed evolution of enzymes Dramé-Maigné, Adèle (France)

18:30 - 18:35	De Novo Designed Minimal Blue Fluorescent Protein Prakash, Vivek (India)
18:35 - 18:40	A platform for creating relevant models of hereditary diseases using human induced pluripotent stem cells and the CRISPR-Cpf1 system Malankhanova, Tuyana (Russia)
18:40 - 18:45	Establishment of CRISPR/Cas9-mediated microRNA knock-out in potato Lukan, Tjaša (Slovenia)
18:45 - 18:50	Ancient brothers of the human p53 tumour suppressor Brazda, Vaclav (Czech Republic)
18:50 - 18:55	Exploring rare events of water transport in and out of buried active sites of hydrolytic enzymes Thirunavukarasu, Aravind Selvaram (Poland)
18:55 - 19:00	THE IMPACT OF REPETITIVE SCUBA DIVES ON THE CARDIOVASCULAR, MUSCULAR AND IMMUNE SYSTEM FUNCTION AND INTEGRITY BIOMARKERS Žarak, Marko (Croatia)
19:00 - 19:05	Decreased expression of N-cadherin in the plasma membrane of bladder cancer urothelial cells does not prevent their adhesion to the urothelium Kreft, Mateja Erdani (Slovenia)
18:15 - 19:15	Marmorna Hall B
	Speed Talk Session 6: Molecular Medicine Speed Talks
	Chair: Maja Katalinic (HR)
18:15 - 18:20	Modular approach to CAR-T regulation based on the barnase-barstar complex for therapy of oncological diseases Kalinin, Roman (Russia)
18:20 - 18:25	miRNA assisted discriminative diagnosis between benign prostatic hyperplasia and localized prostate cancer via human blood examination Said, Harun Muayad (Turkey)
18:25 - 18:30	Endothelial apoptosis after ionizing radiation mainly occurs in non-perfused vessels leaving vascular function intact Markelc, Bostjan (Slovenia)
18:30 - 18:35	The role of the transcription factor Ets-2 in the pathogenesis of primary autoimmune thrombocytopenic purpura Aggeletopoulou, Ioanna (Greece)
18:35 - 18:40	Evaluation of New Progestogen and Selective Estrogen Receptor Modulator Effect on Matrix Metalloproteinases Activity in Experimental Endometrioid Heterotopias Voronkina, Irina (Russia)
18:40 - 18:45	Cell-to-cell transmission of SARS-CoV-2 is resistant to neutralizing antibodies Kruglova, Natalia (Russia)
18:45 - 18:50	Implication of graded reductions in CLN6's anti-aggregate activity as a pathomechanism of the neuronal ceroid lipofuscinoses Shiro, Yuki (Japan)
18:50 - 18:55	Human aquaporin-5 selectivity and peroxiporin activity modulate cell survival and cancer cell migration Pimpão, Catarina (Portugal)
18:55 - 19:00	Deciphering redox-centered regulation of DJ-1 activity and its importance for DJ-1 neuroprotective mechanisms Anjo, Sandra (Portugal)
19:00 - 19:05	miRNA-directed dendritic cell reprogramming Arh, Nejc (Sweden)

18:15 - 19:15 Gallery Hall

FEBS Workshop – Networking for scientists: reasons,

Special Sessions & Workshops

reservations, reinventions

Chair: Andreas Hartig (AT)

>In this workshop, two short talks – on ÇÇWhat role does and should networking play in science?ÇÇ and ÇÇThe pandemic and networking – what did we learn and what can we keep?ÇÇ>>> >>>> will be followed by small-group discussions on aspects of networking to allow active participation of those who attend the session. The session will be in Zoom Meetings with use of breakout rooms and polling. >

19:15 - 20:15 Gallery Hall

FEBS YSF Bridge

Special Sessions & Workshops

Chairs: Irene Diaz-Moreno (ES) Maja Katalinić (HR)

A session aimed at PhD students and postdocs to present activities of the FEBS Working Group on the Careers of Young Scientists, particularly the FEBS Young ScientistsÇÇ Forum.

Wednesday, 2021/7/7

08:00 - 08:45 Gallery Hall

Early Bird Session IV: Molecular Toxicology and Environment

Early Bird Sessions

Chair: Marta Popovic (CR)

08:00 - 08:10	Crosstalk of proteases in DNA-protein crosslink repair
	Popovic, Marta (Croatia)
08:10 - 08:20	Mechanisms of rapid adaptation to changed environment
	Bilandžija, Helena (Croatia)
08:20 - 08:30	New antimicrobial candidates - Quaternary ammonium compounds based on natural scaffold
	quinuclidine
	Šprung, Matilda (Croatia)
08:30 - 08:40	Roles of Rrp6/EXOSC10-targeted IncRNAs in anti-cancer drug toxicity and cell wall architecture
	Stuparevic, Igor (Croatia)

09:00 - 11:00 Kocka Hall

Cancer Immunology and Immunotherapy

Symposia

Chairs: Janko Kos (SI) Wolf Herve Fridman (FR)

	Chails. Janko kos (Si) vvoli nerve rhuman (FK)
09:00 - 09:30	Prognostic and predictive value of tumor-associated B cells and Tertiary Lymphoid Structures in human cancers Sautès-Fridman, Catherine (France)
09:00 - 09:30	The role of MDSC in regulation of immune response Umansky, Viktor (Germany)
09:00 - 09:30	Multiple Defects of Natural Killer Cells in Cancer Patients: Anarchy, Dysregulated Systemic Immunity, and Immunosuppression in Metastatic Cancer Jewett, Anahid (United States of America)
10:30 - 10:45	Super-charged NK cells preferentially expand CD8+ T cells; Results from pancreatic cancer patients and tumor-bearing humanized-BLT mice Ko, Meng-Wei (United States)
10:45 - 11:00	Antigen-specific stimulation and expansion of CAR-T cells using membrane vesicles as target cell surrogates Ukrainskaya, Valeriya (Russia)

09:00 - 11:00	Marmorna Hall A Cellular Organization Chairs: Iva Tolic (HR) Devrim Gozuacik (TR)
09:00 - 09:30	Multiparametric imaging approaches to dissect the role of ROS and eNOS signaling pathways using chemogenetic tools and genetically encoded biosensors Eroglu, Emrah (Turkey)
09:00 - 09:30	Architecture and dynamics of the mitotic spindle Tolic, Iva (Croatia)
09:00 - 09:30	Autophagy as a key cellular stress response mechanism Gozuacik, Devrim (Turkey)
10:30 - 10:45	The SNARE proteins vti1a and vti1b affect myogenesis Heitzig, Nicole (Germany)
10:45 - 11:00	An ATM-Chk2-INCENP signaling pathway delays abscission to prevent chromatin bridge breakage in cytokinesis Petsalaki, Eleni (Greece)
09:00 - 11:00	Marmorna Hall B
	Molecular Interactions of Plants with the Environment Symposia
	Chairs: Kristina Gruden (SI) Wolfram Weckwerth (AT)
09:00 - 09:30	Germplasm meets systems biology – the next green revolution in agroecology Weckwerth, Wolfram (Austria)
09:00 - 09:30	Study of spatial responses in combination with network analysis reveals mechanisms of plant resistance to viruses Gruden, Kristina (Slovenia)
09:00 - 09:30	Hormone-induced gene regulatory networks in plant defense Van Wees, Saskia (Netherlands)
10:30 - 10:45	Omic insights into the molecular response of Sargassum vulgare to acidi?cation at volcanic CO2 vents Nonnis, Simona (Italy)
10:45 - 11:00	How is salicylic acid perceived in potato? Tomaž, Špela (Slovenia)
09:00 - 11:00	Gallery Hall
	Life on the Edge – Extremophilic/ Extremotolerant Symposia
	organisms Chairs: Ana Plemenitaš (SI) Elizaveta Bonch-Osmolovskaya (RU)
09:00 - 09:30	Functional Metagenomics of Microbial Communities in Desert Soils Cowan, Don (South Africa)
09:00 - 09:30	How archaea swim: the archaellum Albers, Sonja-Verena (Germany)
09:00 - 09:30	New thermophilic prokaryotes with unusual metabolic pathways
10:30 - 10:45	Bonch-Osmolovskaya, Elizaveta (Russia) Autocatalytic activation process of thermostable protease from the extremophilic archaeon
	Aeropyrum pernix Bahun, Miha (Slovenia)
10:45 - 11:00	The interaction between the F55 virus-encoded transcription regulator and the RadA host recombinase reveals a common strategy in Archaea and Bacteria to sense the UV-induced damage to the host DNA lacobucci, llaria (Italy)

09:00 - 11:00	Povodni mož Hall Immune and Inflammatory Disorders Chairs: Bojan Polic (HR) Burkhard Becher (CH)
09:00 - 09:30 09:00 - 09:30 09:00 - 09:30 10:30 - 10:45 10:45 - 11:00	The T cell/phagocyte interface in inflammation and immunopathology Becher, Burkhard (Switzerland) Clone wars: failure in self-antigen presentation leading to the autoimmune neurodegeneration Belogurov Jr., Alexey (Russia) Investigating the timing of NKT cell effector subset differentiation Schmidt-Supprian, Marc (Germany) Mice lacking DNA repair factor XLF and MRI show leaky severe combined immunodeficiency (SCID) Castaneda Zegarra, Sergio Miguel (Norway) Molecular mechanisms of NLRP3 inflammasome activation and its regulation Hafner Bratkovic, Iva (Slovenia)
11:00 - 11:30	Other location Coffee Break Coffee Break
11:30 - 12:00	Kocka Hall FEBS Letters Award Lecture Chairs: Felix Wieland (DE) Michael Brunner (DE)
11:30 - 12:00	Selective brain region vulnerability in Parkinson's Disease is governed by a-Synuclein conformations Bartels, Tim (United Kingdom)
12:00 - 12:30	Kocka Hall FEBS Journal Prize Lecture Chairs: Johannes Buchner (DE) Seamus Martin (IE)
12:00 - 12:30	Redox-sensitive mobile protein HIC-5: a guardian of anchorage-dependent cell growth and a fortress against tumor metastasis Shibanuma, Motoko (Japan)
12:30 - 13:30	Gallery Hall Meet the Expert Session III Chair: Jerica Sabotic (SI)
12:30 - 13:00	NanoTemper: No more limitations in your research-measure the most challenging interactions with MST Neha Dhimole
13:20 - 13:25 13:25 - 13:30	Polyplus-transfection: Efficient DNA transfection solutions for Life Science research and Recombinant Protein expression Maria Nicla LOVIGLIO KOBIS Novartis: Opportunities at Novartis Technical R&D Ljerka LAH
12:30 - 14:00	Other location

Lunch & Poster Sessions

Lunch & Poster Sessions

14:00 - 15:00		nary Lectures
14:00 - 15:00	Designing nature, from protein origami to cellular circuits Jerala, Roman (Slovenia)	
15:00 - 15:15	Other location Coffee Break	Coffee Break
15:15 - 16:15	Kocka Hall PABMB Lecture Chair: Bianca Zingales (BR)	nary Lectures
15:15 - 16:15	The Oxygen Paradox in Human Biology and Medicine: Bioenergetics, Free Radicals and Oxidativ Stress Radi, Rafael (Uruguay)	re
16:30 - 18:30	Kocka Hall Cancer Initiation and Progression Chairs: Tamara Lah Turnšek (SI) Geoffrey Pilkington (UK)	Symposia
16:30 - 17:00 16:30 - 17:00	Cancer Stem cells (CSC). Genetic drivers and therapeutic targeting via CCR5 Pestell, Richard (United States of America) Future pre-clinical drug testing in GBM; 3D, all-human, multiple cell type, in vitro systems accur reflect in situ brain microenvironment and can assess differing cytotoxic pathways.	rately
16:30 - 17:00 18:00 - 18:15 18:15 - 18:30	Pilkington, Geoffrey (United Kingdom) Breast cancer-initiating cells: what we know and what we expect from them Daidone, Maria Grazia (Italy) Phenotype switching in melanoma cells resistant to targeted therapy Radic, Martina (Croatia) Adipocyte-derived extracellular vesicles as new modulators of prostate cancer progression Fontana, Fabrizio (Italy)	
16:30 - 18:30	Marmorna Hall A Aging Stress and Neurodegeneration Chairs: Boris Rogelj (SI) Tihomir Balog (HR)	Symposia
16:30 - 17:00 16:30 - 17:00	NFYB-1 regulates mitochondrial function and longevity via lysosomal prosaposin Antebi, Adam (Germany) Mechanisms controlling aberrant phase separation of neurodegeneration-linked RNA-binding proteins	
16:30 - 17:00	Dormann, Dorothee (Germany) Failures in Protein Clearance Partly Underlie Late Onset Neurodegenerative Diseases and Link Pathology to Genetic Risk Hardy, John (United Kingdom)	
18:00 - 18:15 18:15 - 18:30	Influence of the BCHE gene polymorphism on the inhibition of butyrylcholinesterase by biscarbamates, a potential Alzheimer's disease drugs Matošević, Ana (Croatia) Inhibition of cathepsin X as a novel strategy for the treatment of neuroinflammation-associated	d.
10.13 - 10.30	diseases Pišlar, Anja (Slovenia)	d

16:30 - 18:30		<mark>ymposia</mark>
16:30 - 17:00 16:30 - 17:00 16:30 - 17:00 18:00 - 18:15	NADPH oxidases in infection and inflammation Knaus, Ulla G (Ireland) Network pharmacology approach for stroke therapy: Towards the end of medicine as we know it Casas Guijarro, Ana (The Netherlands) Oxidative stress-induced DNA damage signaling: the role of poly(ADP-ribose) polymerase 1 Virag, Laszlo (Hungary) Hydroxytyrosol treatment ameliorates reserpine-induced fibromyalgia: evaluation of pain, oxidative	
16:30 - 18:30	stress and inflammation Di Paola, Rosanna (Italy) Gallery Hall	ymposia
16:30 - 17:00 17:00 - 17:30 17:00 - 17:30 18:00 - 18:15 18:15 - 18:30	Computational Enzyme Design for Metabolic Engineering Damborsky, Jiri (Czech Republic) Approaches towards innovative antibiotics from microbes Mueller, Rolf (Germany) An engineered Calvin cycle enables the yeast Komagataella phaffii to grow and produce organic acids from CO2 Mattanovich, Diethard (Austria) Improving the use of CRISPR-Cas12a (Cpf1) in cyanobacteria Guevara Acosta, Flor Govinda (Spain) Dye-decolorizing peroxidases from Streptomyces coelicolor show organosoly lignin remodeling	
16:30 - 18:30 16:30 - 16:40	activity Pupart, Hegne (Estonia) Povodni mož Hall FEBS/IUBMB Special Session on Education II Chairs: Jerka Dumic (HR) Jason Perret (BE) Introduction	rkshops
16:40 - 17:20 17:20 - 18:00 18:00 - 18:30	Expectations of professionalism in doctoral education in an ever-changing academic world Harris, Robert (Sweden) The postdoc experience - hopes, fears, expectations and reality Hanin, Geula (United Kingdom) Panel discussion	
19:00 - 20:00 19:00 - 20:00	Kocka Hall The FEBS Journal - Meet the Editor Seamus Martin (Ireland) Marmorna Hall A FEBS Letters - Meet the Editor Michael Brunner Special Sessions & Wo	
	FEBS Letters - Meet the Editor Michael Brunner Special Sessions & Wo (Germany)	rksnops

19:00 - 20:00	Marmorna Hall B FEBS Open Bio - Meet the Editor Miguel De La Rosa (Spain) Special Sessions & V	Workshops
19:00 - 20:00	Gallery Hall Molecular Oncology - Meet the Editor Kevin Ryan (UK) Special Sessions & V	Workshops
Thursday, 202	1/7/8	
09:00 - 11:00	Kocka Hall	
	Structural and Functional Glycobiology Chairs: Gordan Lauc (HR) Serge Perez (FR)	Symposia
09:00 - 09:30	The Multiscale Architecture of Complex Carbohydrates	
09:00 - 09:30	Perez, Serge (France) Glycans as biomarkers and functional effectors in diabetes Gornik Kljaić, Olga (Croatia)	
10:00 - 10:30	Functional role of the glycan shield in the activation of the SARS-CoV-2 S protein Fadda, Elisa (Ireland)	
10:30 - 10:45	The plasticity of the beta-trefoil-type lectins from higher fungi Sabotič, Jerica (Slovenia)	
10:45 - 11:00	Individuals at increased risk of type 2 diabetes have increased branching and lower sialylation of alpha-1-acid glycoprotein N-glycans Keser, Toma (Croatia)	
09:00 - 11:00	Marmorna Hall A	
	The Circadian Clock and Disease	Symposia
	Chairs: Damjana Rozman (SI) Achim Kramer (DE)	
09:00 - 09:30	Circadian regulation of glucose and lipid homeostasis upon type 2 diabetes Dibner, Charna (Switzerland)	
09:00 - 09:30	Intercellular coupling between peripheral circadian oscillators by TGF-ß signaling Kramer, Achim (Germany)	
09:00 - 09:30	Human clocks, sleep and metabolism Skene, Debra Jean (United Kingdom)	
10:30 - 10:45	Deletion of the clock gene period 2 from glial cells alters mood-related behavior in mice Martini, Tomaz (Switzerland)	
10:45 - 11:00	Genetic variations in clock controlled genes and sleep phase disorders Plavc, Laura (Slovenia)	
09:00 - 11:00	Marmorna Hall B	
	Biomembranes and Lipid Mediators	Symposia
	Chairs: Marija Heffer (HR) Raquel Marin (ES)	
09:00 - 09:30	Plasma membrane & nanoparticles: love, hate and immune regulation Bilyy, Rostyslav (Ukraine)	
09:00 - 09:30	Brain glycomics by novel mass spectrometry approaches based on ion mobility and chip- nanoelectrospray ionization Zamfir, Alina D. (Romania)	
09:00 - 09:30	Malfunctions in lipid rafts during menopause and Alzheimer's disease. A window to develop new biomarkers.	

Marin, Raquel (Spain)

10:30 - 10:45	Skeletal muscle metabolomics post liraglutide and metformin treatments
10.30 10.13	Heffer, Marija (Croatia)
10:45 - 11:00	Nutrient sensing pathways and cytosolic pH regulate a transcriptional circuit for lipid droplet formation
	Costa, Vítor (Portugal)
09:00 - 11:00	Callen, Hall
09.00 - 11.00	Gallery Hall Lipidomics Symposia
	Chairs: László Vígh (HU) Kim Ekroos (FI)
09:00 - 09:30	Lipidomics of Phospholipase A2 Allosteric Regulation by Membranes Generating Mediators of
	Inflammation
09:00 - 09:30	Dennis, Edward A. (United States of America) The International Lipidomics Society
	Ekroos, Kim (Finland)
10:00 - 10:30	Zooming in on the Curious Case of a Key Cholesterol Synthesis Enzyme Brown, Andrew (Australia)
10:30 - 10:45	Unusual membrane lipids with highly asymmetric acyl chains in a fission yeast: identification,
	synthesis and evolutionary consequences Balogh, Gábor (Hungary)
10:45 - 11:00	Lipid droplets drive inflammatory lipid mediator production in cancer cells
	Petan, Toni (Slovenia)
09:00 - 10:00	Povodni mož Hall
	European Research Council Session Special Sessions & Workshops
	Chairs: Israel Pecht (IL) Vito Turk (SI)
09:00 - 10:00	How to apply for your next ERC grant Philippe Cupers, Belgium
	Timppe Capers, Beigiani
10:00 - 11:00	Povodni mož Hall
	Biochemistry: A Success Story Symposia
	Chairs: Israel Pecht (IL) Vito Turk (SI)
10:00 - 10:30	Structural insights into tRNA modification enzymes Glatt, Sebastian (Poland)
10:00 - 10:30	Multiple faces of the potato virus Y coat protein
	Podobnik, Marjetka (Slovenia)
11:00 - 11:30	Other location
	Coffee Break
11:30 - 12:30	Kocka Hall
55 12.50	FEBS Theodor Bücher Lecture Plenary Lectures
	Chairs: Annette Beck-Sickinger (DE) Laszlo Fesus (HU)
11:30 - 12:30	The biology of CRISPR-Cas
	Charpentier, Emmanuelle (Germany)

12:30 - 13:05 Kocka Hall

Closing ceremony



12:30 - 12:40	Poster and Speed Talk Prize delivery Mary Purton (UK) Seamus Martin (Ireland) Michael Brunner (Germany) Miguel De la Rosa (Spain) Kevin
12:40 - 12:45	Ryan (UK) Short Report on the Congress, Acknowledgements Janko Kos (Slovenia)
12:45 - 12:50	YSF, short report on YSF Irene Diaz Moreno (Croatia) Maja Katalinić (Croatia)
12:50 - 12:55	Concluding remarks Piotr Laidler (Poland) Miguel Del a Rosa (Spain) Jerka Dumić (Croatia)
12:55 - 13:00	Presentation of Lisbon FEBS Congress
13:00 - 13:05	Graca Soveral (Portugal) Miguel Castanho (Portugal) FEBS Flag Ceremony
	Janko Kos (Slovenia) Graca Soveral (Portugal) Miguel Castanho (Portugal)