

October 4, Wednesday

08:00-09:00	Registration	
	HALL A	
09:00-09:15	Opening Remarks	
09:15-10:00	OPENING LECTURE: Synthetic biology for engineering protein structure and function and cellular circuits <i>Thomas Narobe</i> Chairs: Polona Žnidaršič Plazl, Munis Dundar	
10:00-13:00	Medical Biotechnology I Chairs: Donald Martin, Michel Salzet	
10:30-10:45	Design of nanofibrous electrospun DNA/silk scaffold to improve the differentiation of pluripotent stem cells <i>Luca Valentini</i>	
10:45-11:00	Real-time collection and analysis of secretions from monolayers of small numbers of cells in 3D niches for functional liquid biopsies in a novel microfluidic lab-on-chip format <i>Donald Martin</i>	
11:00-11:30	Coffee Break	
11:30-11:45	Neutrophil chemiluminescent fingerprint kinetics for etiological agent phylum triage in an emergency room setting <i>Robert Marks</i>	
11:45-12:00	Genetics of Artificial Cells <i>Munis Dundar</i>	
12:00-12:15	Playing with molecular LEGO: design of bio-inspired hierarchical nanomaterials <i>Adam Mechler</i>	
12:15-12:30	Development of CAR-macrophages as therapeutic strategy to Cancer <i>Michel Salzet</i>	
12:30-12:45	Towards molecular digital twins for oncology surgery with real time SpiderMass mass spectrometry imaging <i>Isabelle Fournier</i>	
12:45-13:00	Multidisciplinary Approach in Medicinal Biotechnology and its Application in the Research of Anti-Covid Drugs, Biosensors, and Scaffolds for Regenerative Medicine <i>Stanislav Miertus</i>	
13:00-14:00	Lunch	
	HALL A	HALL B
14:00-16:45	Medical Biotechnology II Chairs: Adam Mechler, Robert Marks	14:00-17:00 Biocatalysis & Biotransformations Chairs: Bruno Zelič, Marina Cvjetko Bubalo
14:00-14:15	The homeostasis of Alpha-synuclein passes through its post-translational modification. Insights about the role of Copper in the onset of Parkinson's disease. <i>Michele Maffia</i>	14:00-14:25 Keynote Lecture: Integrated microsystems for lipase-catalysed biodiesel production and purification <i>Bruno Zelič</i>
14:15-14:30	CC2DIA as a novel Autism and ciliopathy gene: Is Autism a ciliopathy disorder? <i>Sehime G. Temel</i>	
14:30-14:45	Biopolymeric bacterial cellulose hydrogels for wound management applications <i>Abhishek Gupta</i>	14:25-14:45 Baeyer-Villiger Monooxygenases In Bioorganic Chemistry – Adventures, Challenges, And Opportunities <i>Marko Mihovilovic</i>
14:45-15:00	G-quadruplex forming sequences modulate basal transcription of a yeast reporter and impact the transactivation by PS3 family proteins <i>Vaclav Brazda</i>	14:45-15:00 Osmolytes-based Deep Eutectic Solvents: Innovative Systems for Stabilization of Biomolecules <i>Marina Cvjetko Bubalo</i>
15:00-15:15	Diagnostic potential of extracellular vesicles in prostate cancer <i>Kamil Szeliski</i>	15:00-15:15 Transdermal diffusion of enzymatically synthesized oil-derived phloridzin esters from oil in water emulsion <i>Anja Petrov Ivanković</i>
15:15-15:30	Design and Biological Studies on New Peptide analogues of tetrapeptide FELL <i>Danalev Dancho</i>	15:15-15:30 Immobilization of Feruloyl Esterase from Geobacillus thermoglucosidasius DSM 2542T by CLEA[Cross linking enzyme aggregates] Method <i>Fulya Ay Sal</i>
15:30-16:00	Coffee Break	
16:00-16:15	Identifying Potential Design Interventions for Heart-Lung Machines <i>Eren Dönertaş</i>	16:00-16:15 Screening Hydrolytic Enzyme Production of Bacterial Strains Isolated from Waste Dumps, Turkey <i>Dilsat Nigar Colak</i>
16:15-16:30	The Genetics of Venous Diseases <i>Mahmut Çerkez Ergören</i>	16:15-16:30 Whole-Cell Biosynthesis of Capsaicinoids by Saccharomyces Cerevisiae <i>Nina Muratovska</i>
16:30-16:45	VDR gene SNP in thyroid disease <i>Irina Nakashidze</i>	
16:45-18:30	Poster session (Klub Hall)	17:00-18:30 Slovenian Industrial Biotechnology Chair: Mateja Urlep
18:30 - 19:30	WELCOME RECEPTION	

October 5, Thursday

08:30-09:00	Registration	
	HALL A	HALL B
09:00-13:00	Food & Feed Biotechnology	Environmental Biotechnology
	Chair: Ivana Marova, Anargyros Moulas	Chair: Oscar Vicente, Ariola Bacu
09:00-09:30	Keynote Lecture: From Understanding Bacterial Interactions Towards Effective Probiotic Application and Poultry Meat Quality and Safety <i>Sonja Smole-Možina</i>	09:00-09:30 Keynote Lecture: The Potential and Opportunities of Wood-Inhabiting Fungi in Biotechnology <i>Miha Humar</i>
09:30-09:50	Vitamin D: update on health and nutritional aspects <i>Anargyros Moulas</i>	09:30-09:50 The Genus Limonium: A Model for Basic Studies on Stress Tolerance Mechanisms, Biodiversity Conservation and Saline Agriculture <i>Oscar Vicente</i>
09:50-10:10	Multiple biological effects of immortalized oleaginous yeasts biomass on human health <i>Ivana Marova</i>	09:50-10:10 Removal of cytostatics: bleomycin and vincristine by white-rot fungi - the impact of aeration methods on the drugs' elimination efficiency <i>Marcelina Jureczko</i>
10:10-10:30	A study to evaluate the photodynamic inactivation of Escherichia coli, Listeria monocytogenes and Salmonella enterica <i>Michela Maifreni</i>	10:10-10:30 Waste valorization to produce bacterial cellulose for agricultural applications <i>Zinnia Mansoor</i>
10:30-10:50	By-products of vitivincicultural origin: reutilization within the era of circular economy <i>Panagiotis Kandyliis</i>	
10:50-11:20	Coffee Break	
11:20-11:40	Chimeric recombinant protein of Brucella melitensis and Immunological Evaluation for its possible use for the diagnosis of milk <i>Annia Castillo</i>	11:20 - 13:00 MAGI SESSION: Omics Approaches for the Study of Non-Communicable Diseases Chairs: Tommaso Becari, Matteo Bertelli, Hussein Elsangak
11:40-12:00	Evaluation of pigment content of Parachlorella kessleri under mixotrophic conditions <i>Iskin Engin</i>	11:20-11:30 Omics Approaches to Study Anorexia Nervosa <i>Kevin Donato</i>
12:00-12:20	Exploitation of autochthonous L. casei group strains as secondary cultures to control blowing defects in PDO cheeses <i>Niccolò Renoldi</i>	11:30-11:40 Bioinformatic Analysis to Study the Relationship between AKRIC Genes and Lipedema <i>Jurgen Kaftalli</i>
		11:40-11:50 Proteomic Approaches to Study Chronic Fatigue Syndrome and Post-Covid Syndrome <i>Kristjana Dhuli</i>
12:20-12:40	Protein hydrolysate of Tenebrio molitor adults obtained during enzymatic hydrolysis <i>Helena Fernandes</i>	11:50-12:00 Genomics Analysis of Chronic Fatigue Syndrome and Post-Covid Syndrome <i>Cecilia Micheletti</i>
		12:00-12:10 Long Reads Sequencing for the Diagnosis of Eye Diseases: The Experience of FLG and RPGR Genes <i>Maria Chiara Medori</i>
12:40-13:00	Specific DNA probes and aptamers for microbial detection using Electrochemical Biosensors <i>Marisa Manzano</i>	12:10-12:20 Biostatistics Approaches to Polygenic Risk Score in Physiological Conditions <i>Giovanni Madeo</i>
		12:20-12:30 Biostatistics Approaches to Polygenic Risk Score in Multifactorial Conditions <i>Giuseppe Marceddu</i>
		12:30-12:40 Omics Approaches in Lymphedema <i>Gabriele Bonetti</i>
		12:40-12:50 Autoantibodies in Patients with Autoimmune Retinopathy <i>Alessandro Macchia</i>
12:50-13:00 Innovative treatments for Eating Disorders <i>Maria Rachele Ceccarini</i>		
13:00-14:00	Lunch	
	HALL A	HALL B
14:00-17:00	Plant and Agricultural Biotechnology	Medical Biotechnology III
	Chairs: Maja Ravnikar, Alexander Kilchevsky	Chairs: Osman Eroglu, Vaclav Brazda
14:00-14:30	Keynote Lecture <i>Kristina Gruden</i>	14:00-14:15 Effect of six fluoroquinolones on the viability of bladder cancer cells in 2D and 3D cultures <i>Kloskowski Tomasz</i>
14:30-14:50	Towards the selection of Fusarium and mycotoxin resistant local wheat cultivars of Albania <i>Ariola Bacu</i>	14:15-14:30 Prediction of Epilepsy Seizures and Design Warning System by Using Single Channel EMG Signals <i>Osman Eroglu</i>
14:50-15:10	Microalgae as a multifaceted biotechnology platform <i>Juraj Krajcovic</i>	14:30-14:45 New insights in granulosa physiopathology: the role of ion channels and mitochondria biogenesis <i>Bernard Floretti</i>
15:10-15:30	Plant Molecular Biofarming: Eternal life with gods <i>Kisung Ko</i>	14:45-15:00 Exosomes released under ceramide treatment carry miRNA regulating embryonic hippocampal cell differentiation <i>Federico Fiorani</i>
		15:00-15:15 Role of the KCa3.1 modulation in glioblastoma therapy <i>Concetta Caglioti</i>

15:30-15:50	Genetic bases of solanaceous vegetable plants breeding <i>Alexander Klichevsky</i>	15:15-15:30	Unravelling the Complex Etiology of Type 2 Diabetes Mellitus in the Pakistani Population: Genetic, Environmental, and Molecular Perspectives <i>Attya Bhatti</i>
		15:30-15:40	Pressure Regulation by Control of Roller Pumps in Heart-Lung Machines <i>Ece Görkemli</i>
15:50-16:20	Coffee Break		
16:20-16:30	Plant-produced RBD and cocktail-based vaccine candidates are highly effective against SARS-CoV-2, independently of its emerging variants <i>Tarlan Mammedov</i>	16:20-16:50	Keynote Lecture: Targeted lipidomics and transcriptomics for innovative decision support systems: examples of COVID-19 and liver cancer <i>Damjana Rozman</i>
16:30-16:40	Prospects for the use of amaranth phytomass in fodder production <i>Svetlana Obraztsova</i>	16:50-18:00	Poster session (Klub Hall)
16:40-16:50	Osmoprotectants Mitigate Adverse Effects of Boron Toxicity in Wheat Root Parameters <i>Mehmet Hamurcu</i>		
16:50-17:00	MeJa increased Resveratrol production in callus regenerated from the black grape variety (Boğazkere) grown in Türkiye <i>Ece Başak</i>		
17:00-18:00	Executive Committee Meeting		

October 6, Friday			
	HALL A		HALL B
09:00 - 12:05	Industrial Biotechnology and Bioprocess Engineering Chairs: Igor Plazl, Aleš Podgornik	09:00 - 12:20	Marine & Animal Biotechnology Chairs: Ana Rotter, Dana Tapaloaga
09:00-09:30	Keynote Lecture: Non-invasive in-process methods for monitoring of chromatographic matrix performance <i>Aleš Podgornik</i>	09:00-09:30	Keynote Lecture: Marine Polysaccharides-based Scaffolds for Biomedical Applications <i>Vassilios Roussis</i>
09:30-09:50	Biotechnological Overproduction and Extensive Analysis of Polysaccharide-rich Fungal Biomass <i>Ondrej Slany</i>	09:30-09:50	Marine-derived Microorganisms from the East Mediterranean as a Source of Bioactive Secondary Metabolites <i>Efstathia Ioannou</i>
09:50-10:10	Photosynthetic Microalgae Encapsulation Through Bio composite-Core Beads for Production of Valuable Metabolites <i>Lakshmidevi Rajendran</i>	09:50-10:10	From a vision to a product: is my idea enough to succeed? <i>Ana Rotter</i>
10:10-10:30	Microbial polymer of poly- γ -glutamic acid (γ -PGA) – past, present, and future <i>Iza Radecka</i>	10:10-10:30	Animal Pharming - Advantages, disadvantages and trends <i>Dana Tapaloaga</i>
10:30-10:50	Mathematical Model and Non-Invasive Method to Determine the Amount of Immobilized Protein <i>Rok Ambrožič</i>	10:30-10:50	Detection of Novel Adipokines in Bovine Ovaries during Different Reproductive Stages <i>Thaqi Granit</i>
10:50-11:20	Coffee Break		
11:20-11:40	<i>Transaminase Immobilization via magnetic particles: Leveraging DES for Enhanced Substrate Solubility</i> <i>Tadej Menegatti</i>	11:20-11:35	Extraskeletal osteosarcoma description of an unprecedented immunohistochemical profile <i>Leonardo Leonardi</i>
11:40-12:00	<i>BioProcess Intensification & Optimization</i> <i>Igor Plazl</i>	11:35-11:50	Chemical and biochemical composition of jellyfish mucus and its potential in biotechnology application <i>Katja Klun</i>
12:00-12:20	<i>OneCarbonBioTM: Methanol-based biochemical production using microbial cell factories</i> <i>Živa Švab</i>	11:50-12:05	Omega rabbit: food for health benefit. PRIMA project <i>Giulio Curone</i>
		12:05-12:20	Informations on the presence of indianscad (Decapterus Russellii Ruppell, 1830; Pisces, Carangidae), a non native species in the Butrint Lagoon (Saranda, Albania) <i>Dritan Arapi</i>
12:20-12:40	Conference Closing Ceremony		