

## Schedule Outline


Tuesday 24	Wednesday 25	Thursday 26	Friday 27
9:00-9:45 <b>Satellite meeting: ERA CoBiotech project MISSION</b>	8:30-10:30 <b>Molecular interactions and networking</b>	8:30-10:30 <b>Functional genomics and systems biology</b>	8:30-10:30 <b>Molecular basis of disease II</b>
9:45-10:15 <b>Coffee break</b>	10:30-11:00 <b>Coffee break</b>	10:30-11:00 <b>Coffee break</b>	10:45-11:15 <b>Coffee break</b>
10:15-12:00 <b>Satellite meeting: ERA CoBiotech project MISSION</b>	11:00-13:00 <b>Protein Structure and Function</b>	11:00-12:45 <b>Molecular basis of disease I</b>	11:15-12:00 <b>Closing EMBO lecture</b> 
11:00 → <b>Registration</b>			
14:15-14:30 <b>Opening of 13<sup>th</sup> Meeting of the Slovenian Biochemical Society</b>	13:00-14:00 <b>Lunch</b>	12:45-14:00 <b>Lunch</b>	12:00-12:15 <b>Closing remarks</b>
14:30-16:30 <b>Synthetic biology</b>	14:00-16:00 <b>Biotechnology and bionanotechnology</b>	14:00-16:00 <b>Cell signalling and membranes</b>	
16:30-17:15 <b>Coffee break</b>	16:00-16:30 <b>Coffee break</b>	16:00-16:30 <b>Coffee break</b>	
17:15-18:00 <b>Opening FEBS lecture</b> 	16:30-18:00 <b>Round table EMBO: Integrity in Science</b> 	16:30-18:00 <b>SBD assembly</b>	
18:00-21:00 <b>Poster session I and Welcome dinner</b>	18:00-21:00 <b>Poster session II and Get together dinner</b>	19:00 → <b>Conference dinner</b>	

# Schedule

Tuesday, 24 September 2019

12:00	Bus to Dobrna (from P&R Barje, Ljubljana)
9:00-12:00	Satellite meeting: ERA CoBiotech project MISSION
9:00-9:15	Coordinator <b>Andriy Luzhetskyy</b> , Saarland University, DE Welcome and introduction of ERA CoBiotech project MISSION
9:15-9:45	<b>Chengzhang Fu</b> , Helmholtz institute, DE Cloning of the griselimycin and myxopyronin biosynthetic gene clusters
9:45-10:15	Coffee break
10:15-10:45	<b>Hrvoje Petković</b> , University of Ljubljana, SI MISSION chassis for biosynthesis of diverse natural products
10:45-11:15	<b>Judith Becker</b> , Saarland University, DE Mission to morphology - bioprocess engineering for natural product formation in <i>Streptomyces</i>
11:15-11:45	<b>Lilya Horbal</b> , Saarland University, DE Transcriptional Cluster "refactoring" to access and expand nature's chemical diversity
11:45-12:00	<b>Conclusion: Hrvoje Petković</b> , University of Ljubljana, SI
11:00 →	Registration
14:15-14:30	Opening of 13 <sup>th</sup> Meeting of the Slovenian Biochemical Society
14:30-16:15	Synthetic biology (chair: Roman Jerala)
14:30-15:00	<b>Bruno Correia</b> , Swiss Federal Institute of Technology Lausanne (EPFL), CH Computational design of synthetic proteins for biomedicine
15:00-15:30	<b>Tom F. A. de Greef</b> , Eindhoven University of Technology, NL Programmable DNA-based communication in populations of synthetic cells
15:30-15:45	<b>Duško Lainšček</b> , National Institute of Chemistry, SI

CCExo: A new tool for the enhanced genome editing

15:45-16:00	<b>Neža Omersa</b> , National Institute of Chemistry, SI Protein logic gate operation on lipid vesicles
16:00-16:15	<b>Žiga Strmšek</b> , National Institute of Chemistry, SI Coiled-coil protein origami as the scaffold for presentation of functional protein domains
16:15-16:45	Coffee break
16:45-17:45	Opening FEBS lecture (chair: Marjetka Podobnik)
	<b>The FEBS National Lecturer</b> <b>Petra Schwille</b> , Max Planck Institute of Biochemistry, DE Bottom-up design of protein self-organization
18:00-21:00	Posters I and Welcome Dinner
21:00	Bus to Ljubljana

## Wednesday, 25 September 2019

6:45	Bus to Dobrna (from P&R Barje, Ljubljana)
8:30-10:30	<b>Molecular interactions and networking</b> (chairs: Kristina Sepčič, Kristina Gruden)
8:30-9:00	<b>Oren Tzfadia</b> , Ghent Univeristy, BE MorphDB: Prioritizing genes for specialized metabolism pathways and gene ontology categories in plants
9:00-9:30	<b>Matej Butala</b> , University of Ljubljana, SI Viral small proteins that control the bacterial cell fate
9:30-9:45	<b>Anna Coll</b> , National Institute of Biology, SI The potato transcription factor StERF49 increases susceptibility to potato virus Y
9:45-10:00	<b>Kristina Sepčič</b> , University of Ljubljana, SI Aegerolysins - lipid-binding proteins with potential applications in biomedicine and biotechnology
10:00-10:15	<b>Matic Legiša</b> , National Institute of Chemistry, SI Combined inhibition of two cancer specific 6-phosphofructo-1-kinase isoforms prevents lactic acid excretion in tumorigenic cell lines
10:15-10:30	<b>Christine Strasser</b> , Carl Zeiss AG, CH LSM 9 Family with Airyscan 2
10:30-11:00	Coffee break
11:00-12:45	<b>Protein Structure and Function</b> (chairs: Jurij Lah, Brigita Lenarčič, Boris Turk)
11:00-11:30	<b>Jim Huntington</b> , University of Cambridge, UK The structural basis of antitrypsin deficiency
11:30-12:00	<b>Boris Turk</b> , Jožef Stefan Institute, SI Extracellular cysteine cathepsins as targets for diagnostics and therapy in cancer
12:00-12:15	<b>Andreja Kežar</b> , National Institute of Chemistry, SI Cryo-EM analysis of potato virus Y and virus-like particle reveals structural plasticity of the coat protein
12:15-12:30	<b>Jure Loboda</b> , Jožef Stefan Institute, SI Structural insight in peptidyl substrate binding to cysteine cathepsins
12:30-12:45	<b>Sara Drmota Prebil</b> , University of Ljubljana, SI Towards understanding the effect of calcium binding on the structure of human non-muscle $\alpha$ -actinin-1
12:45-14:00	Lunch in Hotel Vita
14:00-16:00	<b>Biotechnology and bionanotechnology</b> (chair: Hrvoje Petković)
14:00-14:30	<b>Andriy Luzhetskyy</b> , Saarland University, DE Actinobacteria biosynthetic potential: bridging <i>in silico</i> and <i>in vivo</i>

14:30-15:00	<b>Damjana Drobne</b> , University of Ljubljana, SI Importance of design in nanotechnology
15:00-15:15	<b>Urša Čerček</b> , Jožef Stefan Institute, SI Cold atmospheric plasma induces stress granule formation via Eif2-signalling
15:15-15:30	<b>Matic Kisovec</b> , National Institute of Chemistry, SI Quartz crystal microbalance as a bioprocess in-line sensor
15:30-15:45	<b>Aleš Berlec</b> , Jožef Stefan Institute, SI Development of nanofiber delivery system that enables high loading and long-term viability of probiotics
15:45-16:00	<b>Luka Jeromel</b> , Lek Pharmaceuticals, SI Using Knowledge for Downstream Process Design – Mechanistic Modelling
16:00-16:30	Coffee break
16:30-18:00	<b>Round table EMBO: Integrity in Science</b>
	<b>Paraminder Dhillon</b> , The FEBS Journal, UK Promoting research integrity and reproducibility through publication best practice
18:00-21:00	Posters II and Get Together Dinner
21:00	Bus to Ljubljana




## Thursday, 26 September 2019

6:45	Bus to Dobrna (from P&R Barje, Ljubljana)
8:30-10:30	<b>Functional genomics and systems biology</b> (chair: Damjana Rozman, Uroš Potočnik)
8:30-9:00	<b>Adil Mardinoglu</b> , KTH - Royal Institute of Technology, SE The use of systems biology in treatment of liver diseases
9:00-9:30	<b>Martin Trapečar</b> , Massachusetts Institute of Technology, US Humans-on-a-chip and systems immunology for the studies of complex inflammatory diseases
9:30-9:45	<b>Maja Zagorščak</b> , National Institute of Biology, SI A clique-based method for improving motif scanning accuracy
9:45-10:00	<b>Nejc Nadižar</b> , University of Ljubljana, SI BiOpenBank: open source solution for management of biological samples and sample associated data in small biobanks
10:00-10:15	<b>Miha Milek</b> , Berlin Institute for Molecular Systems Biology, DE Investigating 2'-O-methylation writers in human RNA
10:15-10:30	<b>Uršula Prosenc Zmrzljak</b> , LABENA d.o.o., SI Minimal residual disease monitoring by droplet digital PCR in acute promyelocytic leukemia
10:30-11:00	Coffee break
11:00-12:45	<b>Molecular basis of disease I</b> (chair: Tamara Lah Turnšek, Mateja Manček Keber)
11:00-11:30	<b>Juergen Dittmer</b> , Martin Luther University Halle - Wittenberg, DE The impact on tumor stroma on drug response in breast cancer
11:30-12:00	<b>Peter Korošec</b> , University Clinic of Pulmonary and Allergic Diseases Golnik, SI Molecular mechanisms of anaphylaxis
12:00-12:15	<b>Ana Mitrović</b> , Jožef Stefan Institute, Slovenia Cysteine cathepsins B and X in cancer stem cells
12:15-12:30	<b>Vashendriya Hira</b> , National Institute of Biology, SI Microscopic imaging of similarities between stem cell niches in glioblastoma and bone marrow
12:30-12:45	<b>Mirko Cevc</b> , National Institute of Chemistry, SI Study of RNA G-quadruplex structures in the 5'-UTR of the human NRAS proto-oncogene
12:45-14:00	Lunch in Hotel Vita
14:00-16:00	<b>Cell signalling and membranes</b> (chair: Igor Križaj, Metka Lenassi)
14:00-14:30	<b>Guillaume van Niel</b> , French Institute of Health and Medical Research ( Inserm ), FR Live tracking of endogenous exosomes <i>in vivo</i>

14:30-15:00	<b>Toni Petan</b> , Jožef Stefan Institute, SI Lipid droplets: fatty managers of stress and inflammation
15:00-15:15	<b>Valentina Kubale</b> , University of Ljubljana, SI Internalization and signalling properties of BILF1 receptors encoded in Epstein-Barr virus and porcine lymphotropic herpesviruses
15:15-15:30	<b>Marija Holcar</b> , University of Ljubljana, SI Development of a method for extracellular vesicles isolation from human blood and evaluation of its clinical value in malignant mesothelioma
15:30-15:45	<b>Tamara Lah Turnšek</b> , National Institute of Biology, SI Chemokine CCL5 signalling is important for invasion of glioblastoma in its microenvironment
15:45-16:00	<b>Monica Sevillano</b> , Promega GmbH, DE HiBiT Technology - New tool to study protein biology and cellular responses
16:00-16:30	Coffee break
16:30-18:00	<b>SBD assembly</b>
19:00 →	Conference dinner
22:00	Bus to Ljubljana

## Friday, 27 September 2019

7:00	Bus to Dobrna
9:00-10:45	<b>Molecular basis of disease II</b> (chair: Iva Hafner Bratkovič, Boris Rogelj)
9:00-9:30	<b>Pablo Pelegrin</b> , Biomedical Research Institute of Murcia (IMIB), ES Understanding the role of the NLRP3 inflammasome in sepsis
9:30-10:00	<b>Marjan Slak Rupnik</b> , Medical University of Vienna, AT Complexity and simplicity in beta cell collectives
10:00-10:15	<b>Marko Fonovič</b> , Jožef Stefan Institute, SI Legumain as a modulator of immune response
10:15-10:30	<b>Mirjana Liovič</b> , University of Ljubljana, SI iPS cells as disease models for epidermolysis bullosa
10:30-10:45	<b>Anja Pišlar</b> , University of Ljubljana, SI Cathepsin X as a potential therapeutic target for treatment of Parkinson's disease
10:45-11:15	Coffee break
11:15-12:00	<b>Closing EMBO lecture</b> (chair: Janko Kos)
	<b>Antonella Viola</b> , University of Padova, IT Mitochondria in inflammation and immunity
12:00-12:15	Closing remarks
12:30	Bus to Ljubljana