

Programme at a glance

Wednesday, September 16, 2015

12:00 – 15:00	Registration	
15:30 – 16:00	Opening Ceremony	<i>Emerald Room</i>
16:00 – 17:00	Opening Plenary Lecture (PL1): Andrej Šali (USA)	<i>Emerald Room</i>
17:00 – 18:35	Structure and Function of Proteins I L1-L2 & S1-S3	<i>Emerald Room</i>
18:35 – 20:00	Dinner break	
20:00 – 22:00	Welcome Party	

Thursday, September 17, 2015

8:30 – 9:30	Plenary Lecture (PL2): Andras Nagy (Canada)		<i>Emerald Room</i>
9:30 – 11:05	Membrane Structure and Function L3-L4 & S4-S6	Synthetic Biology and Biotechnology L5-L6 & S7-S9	Stem Cells in Molecular Medicine (HBS) LH1-LH2 & S10-S12
	<i>Emerald Room</i>	<i>Aurora Room</i>	<i>Adria Room</i>
11:05 – 11:35	Coffee break		
11:35 – 13:10	Molecular Signalling L7-L8 & S13-S15	Cell Death and Differentiation L9-L10 & S16-S18	Laboratory Reagents & Equipment I SP1-SP3
	<i>Aurora Room</i>	<i>Emerald Room</i>	<i>Adria Room</i>
13:10 – 15:00	Lunch break		
15:00 – 16:35	Functional Genomics and Gene Maintenance L11-L12 & S19-S21	Immunity and Inflammation L13-L14 & S22-S24	Lipidomics and Imaging of Mobile Nanodomains (HBS) LH3-LH4 & S25-S27
	<i>Aurora Room</i>	<i>Emerald Room</i>	<i>Adria Room</i>
16:35 – 17:05	Coffee break		
17:05 – 18:15	Poster Session I (PI-1 – PI-83)		<i>Mediterranea Room</i>
18:15 – 19:05	Science and Society (SL1-SL2)		<i>Emerald Room</i>
19:00 – 20:00	Dinner break		
20:00 – 21:30	Assembly of Slovenian Biochemical Society		<i>Aurora Room</i>
	Guided walk to Piran		

Friday, September 18, 2015

8:30 – 9:30	Plenary Lecture (PL3): Yosef Yarden (Israel)		<i>Emerald Room</i>
9:30 – 11:00	Structure and Function of Proteins II L15-L16 & S28-S30	Molecular Basis of Disease I L17-L18 & S31-S33	Laboratory Reagents & Equipment II SP4-SP5
	<i>Emerald Room</i>	<i>Aurora Room</i>	<i>Adria Room</i>
11:05 – 11:35	Coffee break		
11:35 – 13:00	Poster Session II (PII-84 – PII-159)		<i>Mediterranea Room</i>
13:00 – 14:00	Lunch break		
14:00 – 23:00	Excursion and Conference Dinner		

Saturday, September 19, 2015

9:00 – 10:30	Systems Biology and Bioinformatics L19-L20 & S34-S36	Molecular Basis of Disease II L21-L22 & S37-S39	<i>Adria Room</i>	<i>Emerald Room</i>
10:35 – 11:05	Coffee break			
11:05 – 12:05	Closing Plenary Lecture (PL4): Djordje Miljković (Serbia)		<i>Emerald Room</i>	
12:05 – 12:45	Closing Ceremony and Best Poster Awards		<i>Emerald Room</i>	

Programme

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12:00 – 15:30		Registration	
15:30 – 16:00		Opening Ceremony	<i>Emerald Room</i>
		Opening Plenary Lecture	<i>Emerald Room</i>
		<i>Chairs: Janko Kos, Vito Turk</i>	
16:00	PL1	Andrej Šali (San Francisco, United States of America) Integrative modeling of biomolecular assemblies and pathways	
		Structure and Function of Proteins I	<i>Emerald Room</i>
		<i>Chairs: Ivanka Karadjić, László Nyitray</i>	
17:00	L1	Brigita Lenarčič (Ljubljana, Slovenia) Novel insights into the biology of tumor marker EpCAM	
17:25	L2	Mónika Fuxreiter (Debrecen, Hungary) Fuzziness imparts context dependence on protein interactions	
17:50	S1	László Nyitray (Budapest, Hungary) Asymmetric protein-protein interactions in the symmetric homodimeric S100 calcium-binding protein family	
18:05	S2	Marko Novinec (Ljubljana, Slovenia) The activity of cysteine cathepsin K is fine-tuned via multiple allosteric mechanisms	
18:20	S3	Judit Eszter Szabó (Budapest, Hungary) Characterization of species-specific inhibitory effect of a <i>Staphylococcal</i> repressor protein on dUTPases	
18:35 – 20:00		Dinner break	
20:00 – 22:00		Welcome Party	

Thursday, September 17, 2015

		Plenary Lecture	<i>Emerald Room</i>
		<i>Chairs: László Fésüs, Beata G. Vertessy</i>	
8:30	PL2	Andras Nagy (Toronto, Canada) Pluripotency in the artificial cell space	
		Membrane Structure and Function	<i>Emerald Room</i> <i>(parallel section)</i>
		<i>Chairs: Hrvoje Fulgosi, Gregor Anderluh</i>	
9:30	L3	Gábor Juhász (Budapest, Hungary) Genetic control of autophagy in <i>Drosophila</i>	
9:55	L4	Hrvoje Fulgosi (Zagreb, Croatia) Molecular basis of alternative electron partitioning in photosynthesis	
10:20	S4	Tünde Tóth (Szeged, Hungary) Carotenoids are essential for the assembly of cyanobacterial photosynthetic complexes	
10:35	S5	Kristina Sepčić (Ljubljana, Slovenia) Tracking of cholesterol/ sphingomyelin-rich domains in lipid mono- and bilayers by ostreolysin A-mCherry protein	
10:50	S6	Marjetka Podobnik (Ljubljana, Slovenia) Plasticity of listeriolysin O pores and its regulation by pH and unique histidine	

Synthetic Biology and Biotechnology			<i>Aurora Room</i>
<i>Chairs: Roman Jerala, Imre Boros</i>			<i>(parallel section)</i>
9:30	L5	Roman Jerala (Ljubljana, Slovenia) Designable modularity for engineering cellular logic and new protein folds	
9:55	L6	Marija Gavrović-Jankulović (Belgrade, Serbia) Recombinant allergens for diagnosis and treatment of allergies	
10:20	S7	Aleš Berlec (Ljubljana, Slovenia) Engineered probiotics with cytokine/chemokine binding ability	
10:35	S8	Jerica Sabotič (Ljubljana, Slovenia) Defense proteins from mushrooms offer numerous biotechnological applications	
10:50	S9	Ajasja Ljubetič (Ljubljana, Slovenia) Folding pathway of a designed protein tetrahedron	
Stem Cells in Molecular Medicine (HBS)			<i>Adria Room</i>
<i>Chair: Balázs Sarkadi</i>			<i>(parallel section)</i>
9:30	LH1	Zoltán Ivics (Langen, Germany) The sleeping beauty transposon system and its applications in molecular medicine	
9:55	LH2	Gregor Majdič (Ljubljana, Slovenia) Mesenchymal stem cells in veterinary medicine	
10:20	S10	Zsuzsanna Izsvák (Berlin, Germany) Primate-specific endogenous retrovirus driven transcription defines naïve-like stem cells	
10:35	S11	Ágota Apáti (Budapest, Hungary) Visualization of calcium signals by genetically engineered calcium indicators; <i>in vitro</i> and <i>in vivo</i> models	
10:50	S12	Miha Modic (Cambridge, United Kingdom) TDP-43 safeguards pluripotency by regulation of alternative polyadenylation preventing paraspeckle assembly	
11:05 – 11:35			Coffee break
Molecular Signalling			<i>Aurora Room</i>
<i>Chairs: Mihajlo Spasić, László Buday</i>			<i>(parallel section)</i>
11:35	L7	Péter Bai (Debrecen, Hungary) New ways to revert Warburg-type metabolism	
12:00	L8	Duško Blagojević (Belgrade, Serbia) Redox regulation: from redox congeners to a systemic molecular physiology approach	
12:25	S13	Robert Vidmar (Ljubljana, Slovenia) Proteomic identification of legumain physiological substrates	
12:40	S14	Igor Križaj (Ljubljana, Slovenia) On the role of protein disulfide isomerase in the retrograde cell transport of secreted phospholipases A2	
12:55	S15	Szilvia Krisztina Nagy (Budapest, Hungary) Autoactivation of AtMPK9 is independent from MAPK cascades	
Cell Death and Differentiation			<i>Emerald Room</i>
<i>Chairs: Boris Turk, Karmen Stankov</i>			<i>(parallel section)</i>
11:35	L9	Boris Turk (Ljubljana, Slovenia) Lysosomal cathepsins in cancer: from cell death to therapy	
12:00	L10	Dušica Vujaklija (Zagreb, Croatia) Single-stranded DNA binding protein has a key role in chromosome segregation during morphological differentiation of <i>Streptomyces coelicolor</i>	

- 12:25 S16 **Endre Karoly Kristof** (Debrecen, Hungary)
Functional characterization and gene expression pattern of *ex vivo* differentiated human white, “beige” and brown adipocytes
- 12:40 S17 **Tomaž Bratkovič** (Ljubljana, Slovenia)
Circumstantial evidence for the role of snoRNA SNORD115 in regulation of RNA-editing of serotonin receptor 2c transcript
- 12:55 S18 **Tvrtko Smital** (Zagreb, Croatia)
The role of polyspecific uptake and efflux membrane transport proteins as integral elements of the cellular detoxification and environmental stress response in zebrafish

Laboratory Reagents & Equipment I

Adria Room

Chairs: Marinka Drobnič Košorok, Marko Goličnik

(parallel section)

- 11:35 SP1 **Afif Abdel Nour**, BIO-RAD
MIQE Guidelines: Getting a reliable and reproducible qPCR results
- 12:00 SP2 **Borut Čeh**, Labena, d.o.o.
Laboratory grade water - the most important reagent in any analytical laboratory
- 12:25 SP3 **Torsten Müller**, JPK Instruments AG
Nanoscale imaging and quantitative nanomechanical characterization of cells and biomaterials by Correlative Atomic Force and Optical Microscopy

13:10 – 15:00 Lunch break

Functional Genomics and Gene Maintenance

Aurora Room

Chairs: Damjana Rozman, Beata G. Vertessy

(parallel section)

- 15:00 L11 **Ildikó Unk** (Szeged, Hungary)
A new way to rescue DNA damage-stalled transcription
- 15:25 L12 **Lapanje Award Lecture:**
Damjana Rozman (Ljubljana, Slovenia)
A functional genomics approach to understand pathological features of disrupted cholesterol synthesis in the Cyp51 liver knockout mice
- 15:50 S19 **Ivana Ivančić-Baće** (Zagreb, Croatia)
The interaction between HtpG and Cas3 proteins on activity of the *Escherichia coli* type I-E CRISPR-Cas system
- 16:05 S20 **Rok Košir** (Ljubljana, Slovenia)
The influence of genetic background on circadian gene expression patterns in mouse peripheral tissues
- 16:20 S21 **Ivan Mihaljević** (Zagreb, Croatia)
Characterization of Glutathione-S-transferases in zebrafish (*Danio rerio*)

Immunity and Inflammation

Emerald Room

Chairs: Tihomir Balog, Tanja Čirković Veličković

(parallel section)

- 15:00 L13 **Janoš Terzić** (Split, Croatia)
Role of IL-6 in cancer development
- 15:25 L14 **Tanja Čirković Veličković** (Belgrade, Serbia)
Allergenicity and sensitizing potential of enzymatically cross-linked food allergens
- 15:50 S22 **Matjaž Deželak** (Maribor, Slovenia)
The clinical response to anti-TNF- α drug adalimumab in Crohn's disease patients is associated with genetic polymorphisms in ATG5 gene
- 16:05 S23 **Milica Perišić Nanut** (Ljubljana, Slovenia)
The role of cystatin F in tumour microenvironment
- 16:20 S24 **Balázs Veres** (Pécs, Hungary)
Cyclophilin D-dependent mPT amplifies inflammatory responses in septic shock

Lipidomics and Imaging of Mobile Nanodomains (HBS)		<i>Adria Room</i> (parallel section)
<i>Chair: Gábor Balogh</i>		
15:00	LH3	Mario Brameshuber (Vienna, Austria) Oxidized phospholipids inhibit the formation of mobile cholesterol-dependent plasma membrane nanoplatforms
15:25	LH4	Gábor Balogh (Szeged, Hungary) Towards understanding the role of lipid metabolism in cellular stress response: from yeast models to human diseases
15:50	S25	Károly Liliom (Budapest, Hungary) Lysophospholipid mediators - players in nanodomain dynamics?
16:05	S26	Sergej Pirkmajer (Ljubljana, Slovenia) Composition of cell culture media modulates basal activity and responsiveness of intracellular signalling pathways
16:20	S27	Tamara Popović (Belgrade, Serbia) Membrane phospholipids fatty acids profiles and lipid peroxidation in aging
16:35 – 17:05 Coffee break		
17:05 – 18:15 Poster Session I (PI-1 – PI-83)		<i>Mediterranea Room</i>
Science and Society		<i>Emerald Room</i>
<i>Moderator: Radovan Komel</i>		
18:15	SL1	Karmen Stankov (Novi Sad, Serbia) Ethical aspects in genomics
18:35	SL2	László Fésűs (Debrecen, Hungary) Science integrity in publishing
18:55 – 19:05 Discussion		
19:00 – 20:00 Dinner break		
20:00 – 21:30 Assembly of Slovenian Biochemical Society (<i>Aurora Room</i>)		
Guided walk to Piran		

Friday, September 18, 2015

Plenary Lecture		<i>Emerald Room</i>
<i>Chairs: Jerka Dumić, Israel Pecht</i>		
8:30	PL3	Yosef Yarden (Rehovot, Israel) EGFR and HER2 in cancer: it takes two to tango
Structure and Function of Proteins II		<i>Emerald Room</i> (parallel section)
<i>Chairs: Zrinka Kovarik, Nataša Poklar Ulrih</i>		
9:30	L15	Ita Gruič Sovulj (Zagreb, Croatia) Aminoacyl-tRNA synthetase editing preserves the canonical genetic code
9:55	L16	Attila Reményi (Budapest, Hungary) Protein kinases: enzymes working in signaling brigades
10:20	S28	Julianna Olah (Budapest, Hungary) Exploring the catalytic cycle of 3-isopropyl-malate dehydrogenase: A combined experimental and QM/MM modelling study
10:35	S29	Davor Obradović (Ljubljana, Slovenia) The <i>Aggregatibacter actinomycetemcomitans</i> cytolethal dystending toxin with a truncated CdtB subunit
10:50	S30	Morana Dulić (Zagreb, Croatia) Specificity of leucyl-tRNA synthetase's editing domain is determined by the chemical step of proofreading

Molecular Basis of Disease I			<i>Aurora Room</i>
<i>Chairs: Marija Gavrović-Jankulović, Tamara Lah Turnšek</i>			<i>(parallel section)</i>
9:30	L17	Tamara Lah Turnšek (Ljubljana, Slovenia) Cross-talk of glioblastoma and mesenchymal stem cells modulates signalling pathways in tumour cells	
9:55	L18	Ivan Spasojević (Belgrade, Serbia) Anticancer effects of vitamin C: The great cell culture swindle?	
10:20	S31	Éva Csősz (Debrecen, Hungary) Proteomics examination of OSCC-specific salivary biomarkers in a Hungarian population using Luminex-based multiplex assay and SRM-based targeted proteomics method	
10:35	S32	Marko Fonovič (Ljubljana, Slovenia) Cysteine cathepsins affect tumor cell adhesion and intracellular signaling through the shedding of cell adhesion proteins and receptors	
10:50	S33	Ana Mitrovič (Ljubljana, Slovenia) Use of nitroxoline derivatives in regulation of cathepsin B activity	
Laboratory Reagents & Equipment II			<i>Adria Room</i>
<i>Chairs: Sabina Berne, Blaž Cigjč</i>			<i>(parallel section)</i>
9:30	SP4	Viviane Sternkopf , RainDance Technology Quantitative and ultra-sensitive, nucleic acid analysis using RainDrop™ Single-Molecule dPCR	
9:55	SP5	Nina Nečimer , Roche farmacevtska družba d.o.o., Diagnostics Division Roche target enrichment solutions	
11:05 – 11:35	Coffee break		
11:35 – 13:00	Poster Session II (PII-84 – PII-159)		<i>Mediterranea Room</i>
13:00 – 14:00	Lunch break		
14:00 – 23:00	Excursion and Conference Dinner		

Saturday, September 19, 2015

Systems Biology and Bioinformatics			<i>Adria Room</i>
<i>Chairs: Aleš Berlec, Sándor Pongor</i>			<i>(parallel section)</i>
9:00	L19	Sándor Pongor (Budapest, Hungary) Microbiome bioinformatics: computational analysis and modeling of signalling in complex bacterial communities	
9:25	L20	Iva Tolić (Zagreb, Croatia) Forces in the mitotic spindle	
9:50	S34	András Zeke (Budapest, Hungary) Mapping MAPK interactors: An extensive network with fast-evolving partnerships	
10:05	S35	Željko Popović (Novi Sad, Serbia) Developing a database on gene and protein expression in animal dormancies	
10:20	S36	Tanja Cvitanović (Ljubljana, Slovenia) Validation of SteatoNet for prediction the liver network disorders	
Molecular Basis of Disease II			<i>Emerald Room</i>
<i>Chairs: Olgica Nedić, Karmela Barišič</i>			<i>(parallel section)</i>
9:00	L21	Boris Rogelj (Ljubljana, Slovenia) RNA-protein interactions in ALS and FTL	

9:25	L22	András Váradi (Budapest, Hungary) 4-Phenylbutyrate reduces calcification in mice expressing human ABCC6 mutants: a preclinical <i>in vivo</i> model for allele-specific therapy of PXE and GAC1
9:50	S37	Ana Penezić (Belgrade, Serbia) Carbonylation of HSA with methylglyoxal affects its copper(II) binding affinity
10:05	S38	Anja Pišlar (Ljubljana, Slovenia) Role of γ -enolase in neuronal development and degeneration: regulation by cysteine protease cathepsin X
10:20	S39	Krisztina Kovacs (Pécs, Hungary) Effect of resveratrol on monocrotalin induced pulmonary hypertension
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10:35 – 11:05	Coffee break	
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Closing Plenary Lecture		<i>Emerald Room</i>
<i>Chairs: Mihajlo Spasić, Ana Plemenitaš</i>		
11:05	PL4	Djordje Miljković (Belgrade, Serbia) From rat to man – an experimental model of multiple sclerosis
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12:05 – 12:45	Closing Ceremony and Best Poster Awards	
		<i>Emerald Room</i>