

## 31 March 2017 | Friday

14:00		Opening	
		Plenary session / Congress Hall Chair: Gábor Szabó	
14:10		<b>Miklós Geiszt</b>	Reactive oxygen species in signaling and extracellular matrix formation
14:40		<b>Sándor Pongor</b>	Molecular signaling mechanisms underlying the stability of microbial communities
15:10			
Coffee break			
I. Human genetics and diseases / Congress Hall Chair: Zoltán Ivics		II. Regulation of gene expression, Epigenetics / Session Room Liget I. Chair: Tamás Arányi	
15:50	<b>Zoltán Ivics</b> Genome engineering with the Sleeping Beauty Transposon System	15:50	<b>László Imre</b> Nucleosome stability through the spectacles of quantitative imaging: ejection by loop-relaxation
16:10	<b>Sándor Márki</b> Association study of long non-coding RNA gene polymorphisms in Parkinson disease	16:10	<b>Endre Sebestyén</b> Chromatin fractionation sequencing reveals changing epigenetic states
16:30	<b>Alessandra Gamberucci</b> The role of Calsequestrin1 mutations in skeletal muscle myopathies	16:30	<b>Zsuzsanna Györfy</b> Enhancing the translational capacity of an E. coli chassis by manipulation of the genomic copy number of rRNA and tRNA genes
16:50	<b>Eszter Szabó</b> High-resolution crystal structures of four disease-causing mutants of human dihydroipoamide dehydrogenase	16:50	<b>Ildikó Kristó</b> The actin-binding Moesin protein is a new member of nuclear mRNP complexes
17:10	<b>Zsolt Balázs</b> Whole-exome sequencing analysis of suicide victims reveals novel candidate genes of suicidal behavior	17:10	<b>Bálint László Bálint</b> Inducible super-enhancers are organized based on canonical signal-specific transcription factor binding elements
17:30	<b>Tibor Török</b> Genetic data imply Hun origin of the Hungarian conquerors, which were considerably admixed with Germans of Scandinavian origin	17:30	<b>Tamás Arányi</b> Dynamic DNA methylation changes due to acute metabolic stress in mice
18:00			
Welcome dinner (Restaurant of Hotel Park)			
19:30			
Poster discussion with drinks (P1 - P87)			

## 1 April 2017 | Saturday

III. DNA repair / Congress Hall Chair: Lajos Haracska		IV. Cell cycle, Cell differentiation / Session Room Liget I. Chair: Zoltán Lipinszki	
9:00	<b>Mihály Kovács</b> Interaction of the conserved C-terminal peptide of bacterial single-stranded DNA binding (SSB) protein with RecQ helicase triggers a mechanism initiating genome repair	9:00	<b>Metta Düik</b> Novel role of Scaffold protein Tks4 in modulating adipogenic and osteogenic differentiation of mesenchymal stromal cells
9:20	<b>Judit Eszter Szabó</b> In silico modelling of mycobacterial dNTP metabolism	9:20	<b>András Mádi</b> Browning deficiency and low mobilization of triacylglycerols in gonadal white adipose tissue leads to decreased cold-tolerance of transglutaminase 2 knock-out mice
9:35	<b>Miklós Halmi</b> Regulation of mutagenesis in yeast cells	9:40	<b>Szilárd Szikora</b> The formin DAAM coordinates the actin and the microtubule cytoskeleton during axonal development
9:50	<b>Mónika Mórocz</b> Spartan regulates replication of DNA-protein-crosslinks-containing DNA, protects against premature aging and cancer		
10:05	<b>Csaba Hegedűs</b> The role of PARP-1 in the metabolic response of HaCaT keratinocytes following UVB irradiation	10:00	<b>Ágota Nagy</b> Developmental stage- and tissue-specific ubiquitin levels in Drosophila melanogaster
10:20	<b>Beáta Vértessy</b> Human dUTPase mutations and uracil in DNA: Implications in diseases from diabetes to p53/APOBEC-related tumors	10:20	<b>Zoltán Lipinszki</b> Function of the terminal lysine cluster of p54, the polyubiquitin receptor subunit of the 26S proteasome
10:40			
Coffee break			
V. Regulatory RNAs / Congress Hall Chair: Zoltán Havelka		VI. Signaling, Cell-cell communication / Session Room Liget I. Chair: László Buday	
11:10	<b>Nikolletta Czotter</b> Virus diagnostics of Hungarian grapevine plantations by next generation sequencing of small RNAs	11:10	<b>Anita Boratkó</b> Diverse functions of protein phosphatase 1-TMAP complex in endothelial cell signaling
11:30	<b>György Szilágyi</b> Post-transcriptional regulation of plant NB-LRR defense gene family	11:30	<b>Balázs Merő</b> Structural background of the regulation of Abl family kinases by SH3 domain tyrosine phosphorylation
11:50	<b>Károly Fátoly</b> CRISPR/Cas9 mediated inactivation of argonaute 2 reveals its differential involvement in antiviral responses	11:50	<b>Bernadette Hotzi</b> Sex-specific regulation of G $\alpha$ (i/o)-dependent neuronal development and functions in Caenorhabditis elegans
12:10	<b>Ábel Fóthi</b> MicroRNA 3' isomiRs: are they products of imprecise maturation or regulated degradation?	12:10	<b>Katalin Lumniczky</b> Extracellular vesicles mediate radiation-induced bystander effects in vivo
12:30	<b>Dóra Tombácz</b> Long-read sequencing reveals a hidden complexity of viral transcriptomes	12:30	<b>László Kozma-Bognár</b> ELONGATED HYPOCOTYL 5 mediates blue light signaling to the Arabidopsis circadian clock
12:50			
Lunch (Restaurant of Hotel Park)			
Plenary session / Congress Hall Chair: László Fésüs			
14:20	<b>Carsten Sachse</b> Advances in single-particle cryo-EM and visualization of higher-order autophagy assemblies		
14:50	<b>Zsuzsanna Izsvák</b> The human-specific nature of early embryogenesis		
15:20			
Technical break			
VII. Membrane, Transport, Trafficking / Congress Hall Chair: László Homolya		VIII. Apoptosis, Autophagy / Session Room Liget I. Chair: Gábor Juhácz	
15:30	<b>Gergely Szakács</b> "Where and What? The enigmatic ABCB6 transporter"	15:30	<b>Zsolt Farkas</b> The C. elegans group I NDKP homologue NDK-1 functions together with DYN-1/Dynamin in apoptotic engulfment and clearance
15:50	<b>Tamás Hegedűs</b> In silico modeling of ABCG2/BCRP sheds light on xenobiotics recognition and altered dynamics of variants	15:50	<b>Tibor Kovács</b> Regulation of lysosome-dependent cellular breakdown during the early spermatogenesis of Drosophila
16:10	<b>Katalin Goda</b> Topological heterogeneity of cell surface Pgps results in functional heterogeneity	16:10	<b>Zsuzsa Szondy</b> Loss of transglutaminase 2 sensitizes for the development of various chronic inflammatory diseases
16:30	<b>Szabolcs Tarapcsák</b> Studying the catalytic cycle of P-glycoprotein using Walker B and A-loop mutants	16:30	<b>Zsolt Sarang</b> Comparison of the necrotic and apoptotic cell uptake by mouse bone marrow-derived macrophages
16:50			
Poster discussion with coffee break (P88 - P174)			
20:00			
Banquet			

## 2 April 2017 | Sunday

IX. Molecular mechanism of diseases / Congress Hall Chair: Péter Bay		X. Stem cells / Session Room Liget I. Chair: András Nagy	
9:00	<b>Péter Bay</b> Microbiome – tumor relations, a new aspect of tumorigenesis	9:00	<b>István Szatmári</b> Functional dendritic cell generation from pluripotent stem cells with genetic programming
9:20	<b>Ivan Úray</b> Is lipid homeostasis a suitable anticancer target?	9:20	<b>Mahek Anand</b> Comparison the HSP70 and miR-138 expression in heat-treated and non heat-treated chicken PGCs and genital ridges
9:40	<b>Karen Úray</b> Mechanism of inflammation-induced intestinal injury	9:40	<b>Gergő Kovács</b> Balancing early and late neural processes by polycombs
10:00	<b>Judit Danis</b> PRINS, the psoriasis susceptibility related non-coding RNA regulates cytokine production in human keratinocytes	10:00	<b>László Homolya</b> Inhibition of non-muscle myosin II overrides the effect of hostile extrinsic environment and promote neurite outgrowth in human pluripotent cell-derived neural progenitor cells
10:20	<b>Máté Varga</b> From structure to function: an in vivo, in vitro and in silico analysis of the dyskefin enzyme	10:20	<b>Jelena Lujic</b> Germline stem cell cryopreservation and transplantation
10:40	<b>Kornélia Triposzki</b> Genetic heterogeneity of amyotrophic lateral sclerosis in the Hungarian population	10:40	<b>András Nagy</b> Designer cells: "fail-safe" cells for therapies
11:00			
Coffee break			
XI. Protein structure and function/Congress Hall Chair: Beáta Vértessy		XII. Developmental genetics/Session Room Liget I. Chair: Tibor Veltsi	
11:30	<b>Krisztina Tar</b> Characterization of the physiological and pathological role of PA200-proteasomes in Huntington's disease cell models	11:30	<b>Péter Kaló</b> Identification of the translocation breakpoint between chromosome 4 and 8 in the genomes of Medicago truncatula A17 and A20
11:50	<b>Zsófia Bata</b> Minor image inhibitor enhance crystallization of the industrially relevant PcpAL	11:50	<b>László Szabados</b> Gene mining in extremophile plants: stress tolerance genes from Lepidium crassifolium
12:05	<b>Attila Mészáros</b> Intrinsically disordered N-terminal tail of DR0550 Nudix hydrolase responsible for RNA binding	12:10	<b>Ildikó Bódi</b> Compartmentalization of avian thymic medulla and identification of thymic dendritic cells
12:20	<b>Erzsébet Fichó</b> The underrated field of two-state protein systems	12:30	<b>Gabriella Skoda</b> Myostatin knock-out rabbit line generation using CRISPR/Cas9 system
12:35	<b>Bertalan Kovács</b> Internal motions of parvulin-type peptidyl-prolyl cis-trans isomerases		
12:50	<b>László Dobson</b> Low-resolution structure determination of transmembrane proteins	12:50	<b>Melinda Bence</b> Combining the auxin-inducible degradation system with CRISPR/Cas9-based genome editing: A novel tool for the conditional depletion of endogenous proteins in Drosophila melanogaster
13:10	<b>Gábor Erdős</b> Novel computational methods to explore the interaction network of linear motif binding protein domains	13:10	<b>Viktor Honti</b> Sessile tissue: A dynamic blood cell compartment in Drosophila melanogaster
13:40			
Closing and award ceremony			
13:55			
Lunch			