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19:00-20:30
20:30-22:30

27 March 2015 Friday
Opening
Plenary session I <i>Chair: Éva Kondorosi</i>
PL-01 András Nagy The routes of reprogramming to alternative states of pluripotency
PL-02 Jason S. Carroll Understanding estrogen receptor transcription in breast cancer
PL-03 Andreea Daraba, Bio-Science award winner lecturer Def1 Promotes the Degradation of Pol3 for Polymerase Exchange to Occur During DNA-Damage–Induced Mutagenesis in <i>Saccharomyces cerevisiae</i>
Coffee break
Plenary session II <i>Chair: Miklós Sass</i>
PL-04 László Fésűs Revealing novel molecular elements of cell death paradigms. The neutrophil extracellular trap
PL-05 Gábor Juhász Role and mechanisms of autophagy in <i>Drosophila</i>
PL-06 László Vigh Membranes and lipids in the cellular heat stress management
PL-07 MBKE lecturer award: Éva Várallyay Independent parallel functions of p19 plant viral suppressor of RNA silencing required for effective suppressor activity
Technical break
Company lectures
CL-01 Zsolt Somlai, Bio-Science Ltd. Next-generation Promega Cell-Based Assays to study cellular health and responses
CL-02 Nándor Nagy, Bio-Science Ltd. High Content Screening: widefield and confocal imaging based automated research solutions from Molecular Devices
CL-03 György Lustyik, Soft Flow Hungary Ltd. Image-Based High Content Screening: State of the art Contract Research Services at Soft Flow
Welcome dinner (Restaurant of Hotel Park)
Poster discussion with drinks (odd poster numbers)

9:00-9:20
9:20-9:40
9:40-10:00
10:00-10:20
10:20-10:40
10:40-11:00
11:00-11:20

28 March 2015 Saturday
Room I parallel session Molecular Mechanism of Diseases I <i>Chair: Márta Széll</i>
O-01 István Balogh The changing landscape of genetic testing
O-02 András Penyige Association of peroxisome proliferator-activated receptor-gamma polymorphisms with Inflammatory Bowel Disease in a Hungarian cohort
O-03 Beáta Lontay Protein phosphatase-1 is involved in the maintenance of normal homeostasis and in UVA irradiation-induced pathological alterations in HaCaT cells and in mouse skin
O-04 Borbála Vető Liver metabolic alterations influence PXE-like phenotype
O-05 Lili Döme Introducing a new member in DNA damage tolerance pathway
O-06 Attila Vereczkey Analysis of the First 1500 Preimplantation Genetic Screening Done in Hungary Using Array Comparative Genomic Hybridization
Room II parallel session Protein Structure, Function and Modelling <i>Chairs: Tamás Hegedűs, László Nyitrai</i>
O-07 András Szöllösi Molecular mechanism of nucleotide-dependent activation of the KtrAB K+ transporter
O-08 Zoltán Gáspári Charged single alpha helices: prediction, analysis and modeling
O-09 Ágnes Tantos Multiple fuzzy interactions in the moonlighting function of thymosin-β4
O-10 Lajos Kalmár Discrete molecular dynamics can predict helical prestructured motifs in disordered proteins
O-11 Mihály Kovács Complex DNA-processing activities are conserved between bacterial and human genome-guarding helicases
O-12 Tamás Hegedűs Computational tools indicate the importance of flexibility and intermolecular interactions in multidrug recognition of aryl hydrocarbon receptor
Room III parallel session Regulatory RNAs <i>Chairs: Tamás Orbán, Dániel Silhavy</i>
O-13 Lóránt Székvölgyi R-loops as potent targets of an APOBEC cytidine deaminase-mediated innate immunity
O-14 Károly Fátýol Functional dissection of a plant argonaute
O-15 Zoltán Nagy Tissue and circulating microRNAs in the diagnosis of adrenal tumors
O-16 Anita Schamberger Artificial mirtron-derived small regulatory RNAs: a potential tool for effective gene expression regulation
O-17 Ivett Baksa Small regulatory RNAs in response to ambient temperature sensing in <i>Arabidopsis</i>
O-18 Tibor Csorba Linking RNA silencing to Non-Stop Decay
Coffee break
Room I parallel session Molecular Mechanism of Diseases II <i>Chair: István Balogh</i>
O-19 Bálint Mészáros Systematic analysis of somatic mutations in cancer: Uncovering functional protein regions in disease development
O-20 László Budai Epigenetic modifications in Huntington's disease
O-21 Nikoletta Nagy The universe of monogenic human diseases: Is it really expanding?
O-22 Attila Braun Magnesium homeostasis in platelets
O-23 Mátyás Mink Genotype-phenotype correlations in <i>Drosophila</i> col4a1 mutants: Humoral immune response, muscular dystrophy with various progression, centronuclear/myofibrillar myopathy, and options of treatment
O-24 Zsolt Sarang Consequences of loss of retinol saturase enzyme in mice
O-25 Janko Kos Regulation of cell cytotoxicity by cysteine cathepsins
Room II parallel session Developmental Genetics I <i>Chair: József Mihály</i>
O-26 Zoltán Lipinszki Protein Phosphatase 4 interacts with CENP-C and regulates kinetochore integrity
O-27 Viktória Kiss In situ functional analysis of different cis-acting elements in the <i>bxd</i> regulatory region
O-28 Billes Viktor Developmental autophagy is required for eye patterning in <i>Drosophila</i>
O-29 János Szabad Elaboration and application of an in vivo assay to detect and quantify chromosome loss
O-30 Krisztina Vellai-Takács Characterizing the role of the NM23 homolog NDK-1 in cell migration and apoptotic engulfment
O-31 Viktor Honti Developmental plasticity and regulation of blood cell differentiation in <i>Drosophila melanogaster</i>
Room III parallel session Membrane, Transport, Trafficking <i>Chair: László Homolya, László Vigh</i>
O-32 Imre Gombos Membrane lipid-therapy in operation: The mode of action of the membrane interacting stress protein co-modulators
O-33 Gergely Kosztyi Depletion of endoplasmic reticulum Ca ²⁺ provokes import of reductants from the cytosol
O-34 Daniella Kovacsics In silico and in vitro validation of isoforms of Organic Anion Transporting Polypeptides
O-35 Katalin Goda Dissection of the catalytic cycle of Pgp using Walker A mutants
O-36 Gergely Szakács Role of the N-terminal transmembrane domain in the endo-lysosomal targeting and function of the human ABCB6 protein
O-37 Péter Nagy The effect of ligand stimulation and ErbB2 coexpression on the homodimerization of ErbB3
Lunch (Restaurant of Hotel Park)
Room I parallel session Genome Organization and Mobile Genetic Elements <i>Chair: Zoltán Ivics</i>
O-38 Orsolya Barabás How do genes jump: insights from crystal structures and more...
O-39 Lajos Mátés A novel transgenic organ model to screen for the genetic drivers of tumorigenesis
O-40 Zoltán Ivics Helraiser: A resurrected Helitron transposon from the bat genome
O-41 Ádám Sturm The mechanism of ageing: Primary role of transposable elements in genome disintegration
O-42 Csaba Miskey Search for the primate-specific functions of SETMAR, a domesticated transposase-derived protein in apes and humans
O-43 Tamás Orbán Excision efficiency versus transgenic rate: Sleeping Beauty and piggyBac transposition in mammalian stem cells and embryos
Room II parallel session Developmental Genetics II <i>Chair: Tibor Vellai</i>
O-44 László Virág Poly(ADP-ribosyl)ation as a central regulator of cellular life and death decision making
O-45 Levente Kovács DMUSP5 couples ubiquitin homeostasis to development and apoptosis in <i>Drosophila</i>
O-46 Kata Varga Loss of the autophagy gene Atg16 promotes alcohol tolerance in <i>Drosophila</i>
O-47 Péter Kaló The analysis of plant genes controlling bacteroid differentiation in nitrogen-fixing nodules of <i>Medicago truncatula</i>
O-48 Péter Vilmos Unraveling the functions of cytoskeletal proteins in the nucleus
O-49 László Szabados Integration of stress, ABA and light signaling pathways in plants
Room III parallel session Signaling, Cell-cell Communication <i>Chair: Zsuzsa Szondy</i>
O-50 Attila Reményi Protein kinases: Enzymes working in signaling brigades
O-51 Ferenc Erdődi Novel interactions and regulatory roles of protein phosphatases in endothelial cells
O-52 Zsuzsa Szondy TNFalpha reverse signaling inhibits the LPS-induced pro-inflammatory cytokine formation by upregulating TGF-beta in macrophages
O-53 János Barna The role of heat shock transcription factor HSF-1 in the coordination of cellular stress responses in <i>Caenorhabditis elegans</i>
O-54 Ottó Toldi Overexpression of a heterologous polyamine oxidase, involved in polyamine catabolism, activates both necrotic and vacuolar programmed cell death in tobacco
O-55 Imre Vass Potential role of singlet oxygen in intra- and inter-cellular signaling events in microalgae
Poster discussion with coffee break (even poster numbers)
Concert (Basilica)
Banquet (Conference hall of Hotel Eger)

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29 March 2015 Sunday
Room I parallel session Regulation of Gene Expression, Epigenetics <i>Chairs: Imre Boros, Lóránt Székvölgyi</i>
O-56 Tamás Arányi Infection of human cells with lentiviral vector leads to highly reproducible genome-wide DNA methylation changes
O-57 Izabella Bajusz Some Polycomb-Group proteins can modulate the regulatory capacity of active cis-regulators
O-58 Andor Auber Complex autoregulation of the key translation termination factor: Eukaryotic Release Factor 1 in plants
O-59 Barbara Borsos The role of P53 during transcriptional blockage
O-60 Zoltán Villányi The Ccr4-Not complex connects the different levels of gene expression
O-61 Gábor Szabó The effect of histone modifications on nucleosome stability and the benefit of pan-nicking
Room II parallel session Systems Biology <i>Chair: Péter Csermely</i>
O-62 Károly Kovács General principles of descriptive changes following single-gene deletion in <i>Saccharomyces cerevisiae</i>
O-63 Bálint Kintses The Evolutionary Potential of Underground Metabolism
O-64 Orsolya Kapuy A comprehensive systems biological study of autophagy-apoptosis crosstalk during endoplasmic reticulum stress
O-65 Lőrinc Pongor Intratumor heterogeneity in renal cell carcinoma patients
O-66 Joerg Menche Diseases in the Human Interactome
O-67 Dániel V. Veres ComPPI: A cellular compartment-specific database for protein-protein interaction network analysis
Room III parallel session
Coffee break
Room I parallel session Stem Cells <i>Chairs: Éva Rajnavölgyi, István Szatmári</i>
O-68 Zoltán Simándi Epigenetic regulation of retinoic acid dependent embryonic stem cell differentiation
O-69 Melinda Pirty Rybp as a new player in differentiation of embryonic stem cells
O-70 Dávid Dóra Differentiation and ontogeny of CD45+ stellate cells in chicken embryo
O-71 Ferenc Jankovics Identification of a novel stem cell niche factor in <i>Drosophila</i>
O-72 Enikő Szabó Licensing by inflammatory cytokines abolishes heterogeneity of immunosuppressive function of mesenchymal stem cell population
O-73 Julianna Kobilák Patient specific induced pluripotent stem cells (iPSCs) and their neuronal differentiation in Alzheimer's disease
Room II parallel session Microbial Genetics <i>Chairs: Ferenc Olasz, György Pósfai</i>
O-74 Károly Márialigeti The results of Whole-Genome Analyses (WGA) force changes in Prokaryote systematics and result new concepts in ecology
O-75 Beáta Vértessy Genome integrity and pathogenicity island transfer in <i>Staphylococcus</i>
O-76 Bálint Csörgő Development of a highly precise, portable genome engineering method
O-77 Mátyás Sipiczki Reticulate evolution in a group of yeast species
O-78 Sándor Varga Enhancing recombinant protein solubility with a SAMP fusion partner
O-79 Zsuzsanna Győrfy Engineered ribosomal RNA operon copy-number variants of <i>E. coli</i> reveal the evolutionary trade-offs shaping rRNA operon number
Room III parallel session DNA Repair and Carcinogenesis <i>Chairs: Lajos Haracska, Dávid Szűts</i>
O-80 Dávid Szűts BRCA1 promotes error-free bypass of replication stalling DNA lesions
O-81 Éva Bálint Polymerase exchange mediated translesion RNA synthesis
O-82 Balázs Győrfy A genome-wide approach to link genotype to clinical outcome by utilizing next generation sequencing and gene chip data of breast cancer patients
O-83 Gergely Róna Detection of uracil within DNA using a sensitive antibody-like sensor for in vitro and in vivo applications
O-84 Péter Burkovics Recombination associated DNA synthesis in human cells
O-85 Zoltán Szállási Quantifying DNA repair pathway aberrations in tumor biopsies in order to determine response to chemotherapy
Closing and award ceremony
Lunch (Restaurant of Hotel Park)

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