

FRIDAY, 5 April 2013	
14:00-14:10	Opening
	Plenary lectures I. Chairperson: Éva Kondorosi
14:10-14:40	PL-01 Ian D. Hickson: Chromosomal instability and human disease: Role of common fragile sites (FEBS National lecturer)
14:40-15:10	PL-02 József Burgyán: Arm-race between plant and viruses
15:10-15:40	PL-03 Ferenc Nagy: Phosphorylation of phytochrome B inhibits light-induced signaling via accelerated dark reversion in <i>Arabidopsis</i>
15:40-16:30	Coffee break
	Plenary lectures II. Chairperson: Éva Kondorosi
16:30-17:00	PL-04 Csaba Koncz: An insight into regulatory roles of TFIIF-associated RNA polymerase II CTD-kinases in <i>Arabidopsis</i>
17:00-17:30	PL-05 Edit Buzás: The role of extracellular vesicles in intercellular communication
17:30-18:00	PL-06 András Málnási-Csizmadia: Molecular tattooing in live zebrafish
18:00-18:30	Presentation of the winner of the Bio-Science award
19:00	Poster reception with discussions amongst the posters

SATURDAY, 6 April 2013			
	Parallel session I. Room TOSCANA I. Stem cell Chairpersons: B. Sarkadi - E. Gócza	Parallel session II. Room MARBELLA Systems biology Chairpersons: T. Korcsmáros - B. Papp	Parallel session III. Room IBIZA Developmental genetics I. Chairpersons: R. Sinka - G. Endre
9:00-9:20	O-001 Zsuzsanna Környei: Endogenous retinoic acid synthesis contributes to neural stem cell differentiation	O-007 Péter Csermely: Network plasticity and rigidity determines learning and memory formation and defines optimal attack strategies	O-013 Gabriella Endre: The role of ubiquitin ligases during early steps of symbiotic nodule development
9:20-9:40	O-002 Babet Bontovics: The effect of early differentiation pathway inhibitors on cell fate decision in preimplantation rabbit embryos	O-008 Tamás Korcsmáros: Autophagy Regulatory Network – an integrated resource to identify novel regulators and interactions that control autophagy	O-014 Beatrix Horváth: Dissection of the function of a single gene belonging to a large nodule specific gene family governing bacteroid differentiation in <i>Medicago truncatula</i> -rhizobial symbiotic association
9:40-10:00	O-003 Zsuzsanna Erdei: Analysis of human ABC multidrug transporter expression in human pluripotent stem cells and their derivatives	O-009 Orsolya Kapuy: Regulating the crosstalk between autophagy and apoptosis by stress-directed bistable switch	O-015 Ferenc Jankovics: Identification and in vivo analysis of genes required for microtubule function in epithelial closure processes
10:00-10:20	O-004 Gyöngyi Kudlik: Mesenchymal stem cells induce the alternative pathway of macrophage activation	O-010 Réka Spohn: Evolution of antibiotic hypersensitivity	O-016 Viktor Kis: Glial cells accumulate lipid droplets to promote brain development in <i>Drosophila melanogaster</i>
10:20-10:40	O-005 Nándor Nagy: The role of epithelial-mesenchymal interactions during development of the avian bursa of Fabricius	O-011 Ferenc Pál: Evolutionary potential of the underground metabolic network of <i>Escherichia coli</i>	O-017 Máté Varga: Autophagy is required for zebrafish caudal fin regeneration
10:40-11:00	O-006 István Szatmári: Transcription factor mediated programming of ES cells into dendritic cells	O-012 Csaba Ortutay: Computational modeling of T and B cell development using gene co-regulatory and protein interaction networks	O-018 Attila Vereczkey: Introducing Preimplantation Genetic Diagnosis (PGD) by aCGH in Hungary: improving outcome in IVF

11:00-11:20	Coffee break		
	Room TOSCANA I. Protein structure and function Chairpersons: B. Sümegi - L. Nyitray	Room MARBELLA DNA repair Chairpersons: B. Vértessy - L. Haracska	Room IBIZA Signaling, Cell-cell communication Chairpersons: F. Nagy - L. Buday
11:20-11:40	O-019 Zsuzsanna Dosztányi: Exploring functional sites located within intrinsically disordered proteins	O-024 Dávid Szüts: Allelic imbalance in DNA repair defective chicken DT40 cell lines	O-30 László Kozma Bognár: The circadian clock-associated small GTPase LIGHT INSENSITIVE PERIOD 1 suppresses light-controlled endoreplication and affects tolerance to salt stress in <i>Arabidopsis thaliana</i>
11:40-12:00	O-020 Krisztián Csomós: Blood coagulation factor XIII stabilizes Neutrophil Extracellular Trap structure by the formation of intermolecular covalent protein cross-links	O-025 Zsuzsanna Kocsis: Domain movements and sequence-specific pausing of RecQ helicase	O-031 Gábor Galiba: Light quality-dependent regulation of frost tolerance in cereals
12:00-12:20	O-021 László Fésüs: Importance of Valine 224 in regulating the transamidation activity and calcium sensitivity of human transglutaminase 2	O-026 Eszter Judit Szabó: dUTP level controls transfer of virulence genes in order to preserve integrity of the transferred mobile genetic elements	O-032 Szilvia Benkő: Molecular differences of NLRP3 inflammasome mediated IL-1 β production in LPS-activated human monocyte-derived macrophage subtypes
12:20-12:40	O-022 Ibolya Leveles: Structural analysis of Phi11 Staphylococcal phage dUTPase	O-027 Barnabás Szakál: Cell cycle regulation of crossover timing	O-033 Zsolt Sarang: Macrophages engulfing apoptotic cells produce a novel retinoid to enhance phagocytosis
12:40-13:00	O-023 Gergely N. Nagy: Investigation of catalytic properties of a key lipid biosynthetic enzyme from the malaria parasite	O-028 Lóránt Székvölgyi: The COMPASS subunit Spp1 links histone methylation to initiation of meiotic recombination	O-034 Csaba Söti: Stress-responsive regulatory mechanisms tailor innate immunity and adipogenesis
13:00-13:20		O-029 Ildikó Unk: DNA damage induced polymerase exchange at stalled replication forks	O-035 Kornélia Szebényi: Cardiac expression of a cellular calcium indicator protein in transgenic rats

13:20-14:30	Parallel session I. Room TOSCANA I. Molecular mechanism of diseases I. Chairpersons: B. Melegh - B. L. Bálint	Parallel session II. Room MARBELLA Membrane, Transport, Trafficking I. Chairpersons: L. Vigh - A. L. Kiss	Parallel session III. Room IBIZA Apoptosis, Autophagy Chairpersons: Zs. Szondy - M. Sass
14:30-14:50	O-036 Béla Melegh: Human genetics in the postgenomic area: waiting for the revolution, or beginning of it?	O-041 András Váradi: Experimental strategies for <i>in vivo</i> rescue of disease-causing mutations of ABCC6	O-046 Gábor Juhász: Autophagosomal Syntaxin17-dependent lysosomal degradation maintains neuronal health in <i>Drosophila</i>
14:50-15:10	O-037 Endre Kristóf: Second generation antipsychotic (SGA) drugs modify the differentiation program of human adipocytes inducing "browning" markers	O-042 Csilla Laczka: Mutations in potential substrate- and steroid-binding sites modulate cholesterol sensing of human ABCG2	O-047 Zsuzsanna Szatmári: The role of Rab11 in the maturation of autophagosomes and endosomes as a negative regulator of Hook
15:10-15:30	O-038 Róbert Mátics: Clonal evolution in pALL: contrasting hypotheses	O-043 Gergely Róna: CDK1 Phosphorylation governs nuclear protenome redistribution in daughter cells after division: Legacy of mother cells	O-048 Lajos László: Molecular cell pathology of Prion disease: The role of Endosome-Lysosome System and selective autophagy
15:30-15:50	O-039 Nikoletta Nagy: The rs3185480 SNP of the APCDD1 gene is associated with androgenic alopecia	O-044 Katalin Goda: Elucidation of the catalytic mechanism of P-glycoprotein using a conformation sensitive antibody	O-049 László Virág: Regulation of life and death decisions by poly(ADP-ribosyl)ation
15:50-16:10	O-040 Márta Széll: Genetic and functional studies on Hungarian families with Brooke-Spiegler Syndrome	O-045 Gábor Szalóki: Substrate binding and transport by Walker-A mutant Pgps	O-050 Anitta Sárvári K.: Characterization of inflammatory reactions during human adipocyte & macrophage co-incubation
16:10-16:30	Coffee break		
	Company lecture		
16:30-16:50	CL-01 Herve Pouzoullic: PCR goes digital pushing the boundaries of sensitivity and accuracy in nucleic acid based detection (Life Technologies)		
16:50-19:30	Poster discussion		
19:30	Banquet		

SUNDAY, 7 April 2013			
	Parallel session I.	Parallel session II.	Parallel session III.
	Room TOSCANA I.	Room MARBELLA	Room IBIZA
	Developmental genetics II.	Regulation of gene expression, Epigenetics	Membrane, Transport, Trafficking. II.
	Chairpersons: P. Deák - J. Mihály	Chairpersons: L. Nagy - I. Boros	Chairpersons: A. Váradi - Cs. Laczka
9:00-9:20	O-051 János Szabad: Combined genetic, molecular and cell biology approaches to reveal functions of the maternal α -tubulin isoform in <i>Drosophila</i>	O-056 Gábor Szabó: Single-strand discontinuities in the genome of lower and higher eukaryotes	O-062 Katalin Schlett: Inactivation of protein kinase D activity alters dendritic spine morphology, motility and hippocampal functions
9:20-9:40	O-052 Rita Sinka: Membranes along the longest sperm	O-057 László Szabados: The Heat Shock Factor A4A regulates oxidative stress tolerance in <i>Arabidopsis</i>	O-063 Petra Balogh: The internalization route of Transforming Growth Factor β receptor and a possible non-genomic role of Estrogen-Receptor α in the signaling
9:40-10:00	O-053 János Barna: Heat shock factor-1 intertwines insulin/IGF-1, TGF- β and cGMP signaling to control development and aging	O-058 István Német: Transglutaminase 2 (TGM2) modulates the energy metabolism of differentiating myeloid cells through repression of key regulators of mitochondrial biogenesis	O-064 Attila Glatz: Thermal stress management in fission yeast: need for fat
10:00-10:20	O-054 Péter Vilmos: Novel functions for a cytoskeletal actin binding protein	O-059 Caroline Bacquet: Genomic analysis of HNF4a binding and the influence of ERK1/2 signaling pathway: Insights on human ABCC6 gene transcriptional regulation	O-065 Gergely Szakács: Tracking ABCB6 in the cell: from the mitochondria through the plasma membrane to the endolysosomal system
10:20-10:40	O-055 József Mihály: The formin DAAM functions as the molecular effector of the planar cell polarity pathway during axonal development in the <i>Drosophila</i> brain	O-060 Zsolt Keresztessy: Cell line development using genome engineering technologies: Reporters, effectors, producers	O-066 Eszter Tóth: Dual localization of the prion protein family members: the highly conserved, N-terminal (RXXX) ₈ motif of mouse Shadoo mediates nuclear accumulation
10:40-11:00		O-061 Milán Ivanics: Application of tissue specific gene expression to improve fungus resistance in wheat	

11:00-11:20			
Coffee break			
	Room TOSCANA I. Molecular mechanism of diseases II. Chairpersons: J. Balla - M. Széll	Room MARBELLA Microbial genetics Chairpersons: P. Putnoky - Cs. Pál	Room IBIZA Regulatory RNAs Chairpersons: J. Burgyán - Z. Havelda
11:20-11:40	O-067 Attila Braun: The physiological role of transient receptor potential (TRP) channels in platelet calcium homeostasis and arterial thrombosis	O-072 Nyerges Ákos: Temperature sensitive DNA repair mutants enable highly precise genome manipulation	O-077 György Szittyá: Small RNA regulation of plant NB-LRR defense gene family
11:40-12:00	O-068 Éva Csósz: Blood, sweat and tears – body fluid proteomics with emphasis on antimicrobial and immunomodulatory peptide type biomarkers	O-073 Erzsébet Baka: Development of basic genetic manipulation system for the thermoacidophil <i>Thermoplasma acidophilum</i>	O-078 Elen Gócza: Maintenance of pluripotency in embryonic stem cells with microRNAs
12:00-12:20	O-069 Hargita Hegyesi: Cerebrovascular alteration after X-ray exposure at low doses: in vivo and in vitro mice studies	O-074 Csaba Fekete: Genome-guided approach for identifying cryptic biosynthetic pathways and novel natural products in <i>Saccharomonospora azurea</i>	O-079 Zsolt Rónai: Polymorphic miRNA binding sites are risk factors of diabetes mellitus
12:20-12:40	O-070 Péter Nagy: Myc-driven overgrowth requires unfolded protein response-mediated induction of autophagy and antioxidant responses in <i>Drosophila</i>	O-075 Rita Hirmondó: <i>In vivo</i> enzymology: Physiologic effects of dUTPase mutations in the mycobacterial cell	O-080 Anita Schamberger: Non-canonical human microRNAs: characterization of the mirtron pathway in higher eukaryotes
12:40-13:00	O-071 Zsuzsanna Ortutay: Proprotein convertase furin in T cell mediated immune responses	O-076 Gergely Maróti: Characterization of strong antibacterial activity exhibited by nodule specific plant peptides	O-081 Éva Várallyay: Identification of genes important in disease symptom development in virus infected plants
13:00-13:20	Closing, Award ceremony		
13:20	Lunch		