

## PROGRAM AT A GLANCE

### Saturday, October 8, 2011

	Karolinum
18.00	Opening Conference Lecture
19.00	Welcome Drink

### Sunday, October 9, 2011

	Conference Hall
8.30	Opening Ceremony
8.40	Invited Lectures I
10.10	Company Presentation – Platinum Partner
10.40	Invited Lectures II
12.25	Company Presentation – Gold Partner
14.00	Invited Lectures III
15.45	Company Presentation – Silver Partner
15.55	Plenary Session I
16.15	Poster Session I
18.00	Social Evening

### Monday, October 10, 2011

	Conference Hall	Meeting Hall, 2 <sup>nd</sup> Floor
8.30	Plenary Session II	
9.30	Company Presentations – Partners	
10.30	Clinical Cytometry I	New Methods
12.15	Company Presentations – Partners	
13.45	Plenary Meeting of the Czech Society for Analytical Cytology	
15.15	Clinical Cytometry II	Plant Cytometry
16.15	Experimental Oncology	
17.30	Poster Session II	

### Tuesday, October 11, 2011

	Conference Hall	Meeting Hall, 2 <sup>nd</sup> Floor
8.30	Plenary Session III	
9.30	Company Presentations – Partners	
10.50	Data Analysis	Cell Biology and Signaling
11.35	Stem Cells	
12.35	Prize Winners, Closing Remarks	

## SCIENTIFIC PROGRAM

**Saturday, October 8, 2011**

**Karolinum**

**18.00 – 19.00**    **Opening Conference Lecture**  
*Chairmen: J. Doležel, O. Hrušák, T. Eckschlager*

Why Science? What Is It?  
*S. Komárek, Charles University in Prague*

19.00 – 22.00    Welcome Drink

**Sunday, October 9, 2011**

**Conference Hall**

**8.30 – 8.40**    **Opening Ceremony**  
*J. Doležel, T. Eckschlager*

**8.40 – 10.10**    **Invited Lectures I**  
*Chairmen: J. Doležel, T. Eckschlager*

1. New Technological Advances in Flow Cytometry Immunophenotyping of Haematological Malignancies: The Contribution of EuroFlow  
*A. Orfao et al., University of Salamanca, Salamanca, Spain*
2. Cytometric Approaches to Cancer Biology  
*D. Davies, London Research Institute, London, United Kingdom*

**10.10 – 10.30**    **Company Presentation – I.T.A. - Intertact s.r.o., Platinum Partner**  
*Chairmen: J. Doležel, T. Eckschlager*

3. BD FACS Verse – A New Paradigm in Flow Cytometry Standardization  
*J. Sinkora, BD Biosciences*

10.30 – 10.40    *Coffee Break*

**10.40 – 12.25**    **Invited Lectures II**  
*Chairmen: A. Kozubík, M. Průcha*

4. Brilliant Violet: A Novel Family of Fluorescent Molecules for Flow Cytometry and Microscopy Applications  
*K. Lundsten, BioLegend, San Diego, CA, USA*

5. Microparticles Enumeration by Flow Cytometry  
*R. Lacroix, Inserm-Université de la Méditerranée, Marseille, France*
6. Flow-sorted Nuclei Are Valuable Subjects to Investigate Structural and Functional Aspects of Nuclear Architecture in Plants  
*J. Fuchs et al., Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany*

**12.25 – 12.40      Company Presentation – Beckman Coulter Česká republika, s.r.o., Gold Partner**

*Chairmen: A. Kozubík, M. Průcha*

7. The Solution of Beckman Coulter for Cell Analysis  
*P. Kružík*

*12.40 – 14.00      Lunch*

**14.00 – 15.45      Invited Lectures III**

*Chairmen: T. Kalina, J. Hofmanová*

8. TBA  
*A. Thiel, Charité – Universitätsmedizin Berlin, Germany*
9. Pluripotent Stem Cells as a Model for Human Diseases  
*A. Muotri, University of California, San Diego, CA, USA*
10. Diagnosis and Classification of B – Chronic Lymphoproliferative Diseases Using 8-color Flow Cytometry  
*M. Arroz, Hospital S. Francisco Xavier, Lisbon, Portugal*

**15.45 – 15.55      Company Presentations – Celeza GmbH, Silver Partner**

*Chairmen: T. Kalina, J. Hofmanová*

11. Advanced Batching in FlowJo  
*A. P. Pereira de Sousa*

**15.55 – 16.15      Plenary Session I**

*Chairmen: T. Kalina, J. Hofmanová*

12. New Targets in Leukemia. Is “New” Always “Helpful”?  
*O. Hrušák et al., CLIP, 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague*

## 16.15 – 17.00 Poster Session I, Coffee Break

### New Methods

- P1. Leukemia Cell Lines Immunophenotyping – Flow Cytometry Microsphere-based Affinity Proteomics and Classical FACS-based Methods Comparison  
*D. Černá et al., 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
- P2. Flow Cytometric Analysis of Apoptotic Molecular Changes at the Level of Mitochondria  
*B. Skender et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P3. Automatic Image Processing Approach to Determine Viability and Cell Growth of Mesenchymal Stem Cells  
*J. Skopalík et al., Faculty of Medicine, Masaryk University, Brno*
- P4. Detection and Clonogenic Assay of Cancer Stem-like Cells Using Flow Cytometry  
*R. Fedr et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P5. Genetic Predisposition to Sepsis in Children: The Combination of 5 Risk Gene Variants Predicts Outcome of Life-threatening Sepsis  
*P. Jabandziev et al., University Hospital Brno*

### Cell Biology and Signaling

- P6. LA-12-mediated Sensitization to TRAIL-induced Apoptosis Is Independent on p53 and Selective in Cancer but Not Normal Human Colon Epithelial Cells  
*B. Bujoková et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P7. Myeloperoxidase Interacts with Erythrocytes  
*S. Gajdová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P8. Prion Protein Affects Post Transfusion Recovery and Survival of Biotin Labeled Red Blood Cells in Mice  
*H. Glier et al., Charles University in Prague*
- P9. Signalling Pathways and Lipid Alterations Associated with Differentiation/ Apoptotic Response of Colon Cancer Cells to Fatty Acids  
*J. Hofmanová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*

- P10. c-Myc Plays a Crucial Role in Apoptosis Induced by Combination of Platinum Drugs and TRAIL in Colon Cancer Cells  
*I. Jelínková et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P11. Modulation of Cytokinetic Parameters and Adhesive Properties in Colon Epithelial Cells Grown under Various Attachment/Detachment Conditions  
*L. Kočí et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P12. Myeloperoxidase Modulates Physiology of Thrombocytes  
*H. Kolářová, Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P13. Impaired Ratios of L-arginine and Asymmetric Dimethylarginine Differentially Regulate the Endotoxin-induced Activation of Macrophages  
*H. Martišková et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P14. Important Role of Mitochondria in Docosahexaenoic Acid-mediated Sensitization of Colon Cancer Cells to TRAIL-induced Cell Death  
*B. Skender et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P15. Double-barrelled Action of Heme Arginate on HIV-1: Inhibition of Acute Infection and Reactivation of Latent Provirus  
*P. Shankaran et al., 1<sup>st</sup> Faculty of Medicine, Charles University in Prague*
- P16. Localization of the STAT3 Binding Site in the MDR1 Enhanceosome  
*Z. Šrámková et al., Faculty of Science, Masaryk University, Brno*
- P17. Biological Effect of Organoselenium Compound on Human Tumor Colorectal Cells In Vitro  
*S. Benešová et al., Charles University – Faculty of Medicine in Hradec Králové*
- P18. Role of D-cyclin Family Proteins in Androgen Depletion-induced Cell Cycle Arrest of Prostate Cancer Cells  
*Z. Pernicová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P19. L-arginine Is Critically Involved in the Activation of Immune Cells  
*M. Pekárová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic v.v.i., Brno*

- P20. A comparison of GammaH2AX Increase after Whole-body and Partial Irradiation  
*R. Havelek et al., Charles University in Prague, Faculty of Medicine in Hradec Králové*

### **Clinical Cytometry**

- P21. Dynamics of Regulatory T Cells Correlates with Biological Therapy Efficiency in Psoriatic Patients  
*Z. Dudášová et al., St. Elizabeth Cancer Institute, Bratislava, Slovak Republic*
- P22. Cell Analysis of Pleural Effusion during Thoracoscopic Talc Poudrage Treatment  
*K. Jankovičová, Charles University in Prague – Faculty of Medicine in Hradec Králové*
- P23. Detection of Macrophage-like Cells in Human Subcutaneous and Visceral Adipose Tissue  
*I. Králová Lesná et al., IKEM, Prague*
- P24. Receptors for B-cell Activating Factor of the TNF Family (BAFF) Are Expressed in Muscle Tissue of Myositis Patients with Anti-Jo-1 or Anti-Ro52/Anti-Ro60 Autoantibodies and Correlate with Plasmacytoid Dendritic Cell Markers  
*O. Kryštůfková et al., 1<sup>st</sup> Faculty of Medicine, Charles University in Prague*
- P25. Assessment of TNF $\alpha$  in Alveolar Macrophages in Patients with Bronchial and Interstitial Lung Diseases – Multiparametric Flow Cytometry  
*P. Mandřáková et al., 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
- P26. Complex Flow-Cytometry Analysis of Haemopoietic Stem Cells Graft  
*M. Novák et al., University Hospital of Olomouc*
- P27. Analysis of Complex Macrophage Phenotype in Diverse Human Pathologies  
*E. Petrová, EXBIO Praha, a.s., Vestec*
- P28. Duplicate Hematological Malignancies – A Case Report  
*Z. Píkalová, University Hospital of Olomouc*

**18.00 – 22.00 Social Evening**

**8.30 – 9.30 Plenary Session II***Chairmen: E. Bártoová, J. Hofmanová*

13. Human B Cell Population Escaping Negative Selection – From Immunodeficiency to Autoimmunity  
*Š. Růžičková et al., Institute of Biotechnology of Academy of Sciences of the Czech Republic, v.v.i., Prague*
14. Characterization of Lymphocyte Subsets in COVID Patients Reveals Novel Subsets of Human Naive B-cells Marked by IgM and CD24 Expression  
*M. Vlková et al., Masaryk University and St. Anne's University Hospital Brno*
15. Epigenetics and DNA Repair  
*E. Bártoová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*

**9.30 – 10.00 Company Presentations – Partners I***Chairmen: E. Bártoová, J. Hofmanová*

16. Bio-port Europe  
Top Products of eBioscience  
*N. Brinskelle-Schmal, Technical Service eBioscience*
17. Biovendor – Laboratorní medicína a.s.  
BioVendor and Laboratory Diagnostics  
*K. Frýbortová*
18. SCINTILA, s.r.o.  
TBA

*10.00 – 10.30 Coffee Break***10.30 – 12.15 Parallel Session – Clinical Cytometry I***Chairmen: V. Král, M. Průcha*

19. Head to Head Comparison of the Quantiferon TB Gold and T-SPOT.TB Assays in IGRA Diagnosing of the Latent Tuberculosis Infection  
*M. Bobovčák et al., Highly Specialized Institute of Lung Diseases, Nová Polianka – Vysoké Tatry, Slovak Republic*
20. Different Immunologic Characteristics of Cord Blood Cells of Children of Healthy and Allergic Mothers  
*J. Hrdy et al., 1<sup>st</sup> Faculty of Medicine, Charles University in Prague*

21. Regulatory T cells in Patients with Psoriasis and Rheumatoid Arthritis Treated by Biological Therapy  
*V. Král et al., Institute of Public Health, Ústí nad Labem*
22. The Necessity of Clonality Assessment in Monoclonal Gammopathies  
*L. Kovářová et al., University Hospital, Brno*
23. Běžné, standardizované a doporučené postupy pro detekci a monitorování PNH klonů průtokovou cytometrií  
*I. Marinov, Ústav hematologie a krevní transfúze, Praha*
24. Flow Cytometric Analysis of CD4 and CD8 Regulatory Cells before and after Lenalidomide Plus Dexamethasone Treatment in Multiple Myeloma Patients  
*K. R. Muthu Raja et al., Faculty of Medicine, Masaryk University, Brno*
25. Monitoring of T-lymphocyte Developmental Subsets in Patients with Selective IgA Deficiency  
*J. Nechvátalová, Masaryk University and St. Anne's University Hospital Brno*

#### **12.15 – 12.35 Company Presentations – Partners II**

*Chairmen: V. Král, M. Průcha*

26. Life Technologies Czech Republic  
The Attune® Acoustic Focusing Cytometer – Precision and Sensitivity at All Speeds  
*R. Thompson*
27. Biohem spol. s r.o.  
Power Your Flow Cytometry Research with MACSQuant®  
*I. Goczałik, M. Biotech*

*12.35 – 13.45 Lunch*

#### **13.45 – 15.15 Plenary Meeting of the Czech Society for Analytical Cytology**

*Chairmen: J. Doležel, CSAC Committee and Auditorial Committee*

#### **15.15 – 16.15 Parallel Session – Clinical Cytometry II**

*Chairmen: T. Kalina, J. Hraběta*

28. Effect of Antiviral Therapy on Lymphocyte Functions after Kidney Transplantation  
*M. Průcha et al., Na Homolce Hospital, Prague*
29. Immunological Characteristics of Bone Marrow Aspirate in Children with Refractory Cytopenia and Aplastic Anemia  
*M. Reiterová et al., Childhood Leukemia Investigation Prague*

30. Comparison of Minimal Residual Disease Detection in Patient with Chronic Lymphocytic Leukemia Using Multicolor Flow Cytometry versus Quantitative Real Time PCR  
*J. Chovancová et al., Faculty of Medicine, Masaryk University, Brno*
31. Clusters of CVID Patients Based on B-cell Immunophenotype Correlate with T-cell Abnormalities and Clinical Presentation  
*T. Kalina et al., CLIP and 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*

#### **16.15 – 17.30 Parallel Session – Experimental Oncology**

*Chairmen: T. Kalina, J. Hraběta*

32. Effect of Valproat on Neuroblastoma in Normoxia and Hypoxia – In Vitro Study  
*T. Eckschlager et al., 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
33. Intracellular Sequestration of Ellipticine: Role of Vacuolar-ATPase  
*J. Hraběta et al., 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
34. Wnt5a as an Independent Factor Determining Decreased Invasiveness and Cancer-related Death in Breast Cancer Patients  
*G. Kharashvili et al., Faculty of Medicine and Dentistry, Palacký University, Olomouc*
35. Flow Cytometry Analysis of Dipeptidyl Peptidase-IV/CD26 in Tumor Tissue and Primary Cell Cultures Derived from Human Glioblastoma Multiforme  
*L. Šromová et al., 1<sup>st</sup> Faculty of Medicine, Charles University in Prague*
36. Novel Effective Strategies for Sensitization of Colon and Prostate Cancer Cells to TRAIL-induced Apoptosis  
*A. Vaculová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*

#### **17.30 – 18.15 Poster Session II, Coffee Break**

##### **Clinical Cytometry**

- P29. Subpopulations of Peripheral Blood Monocytes in Kidney Allograft Transplantation  
*A. Sekerková et al., IKEM, Prague*

- P30. Monitorování rekonstituce CMV buněčné imunity u pacientů po alogenní transplantaci kmenových buněk pomocí CMV-tetramer testu metodou průtokové cytometrie  
*V. Tkáčová et al., Ústav hematologie a krevní transfúze, Praha*
- P31. Reduction of Endothelial Progenitor Cells (EPCs) in the Peripheral Blood of Patients with Age Related Macular Degeneration (AMD) after Haemorheopheresis  
*D. Vokurková et al., Charles University – Faculty of Medicine in Hradec Králové*
- P32. Prognostic Significance of ZAP-70 Expression by Using T/B – Cell Ratio of Mean Fluorescence Intensity in Chronic Lymphocytic Leukaemia  
*V. Vroblová, Charles University – Faculty of Medicine in Hradec Králové*
- P33. Comparison of Selected Immunological Parameters in Patients with Treated and Non-treated Autoimmune Thyroiditis  
*P. Hrdá et al., First Faculty of Medicine, Charles University in Prague*
- P34. Distribution of Lymphocyte Subpopulation CD45RO+, CD4 and CD8 and of Activation Markers CD25, CD69 and CD71 on Lymphocytes before and after Helicobacter Pylori Infection Eradication  
*M. Hybenová, First Faculty of Medicine, Charles University in Prague*
- P35. Long-term Follow-up of CD4+ T Cells in Peripheral Blood and CSF after Autologous Hematopoietic Stem Cells Transplantation in Multiple Sclerosis Patients  
*H. Marečková, First Faculty of Medicine, Charles University and General Teaching Hospital in Prague*

### **Experimental Oncology**

- P36. Host Vimentin-positive Cells Participate in Growth of Experimental Fibrosarcomas  
*Z. Poljak Valášková et al., School of Medicine, Comenius University in Bratislava, Slovak Republic*
- P37. Role of Growth/Differentiation Factor – 15 in Prostate Cancer Progression  
*K. Souček et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*

### **Stem Cells**

- P38. Intralaboratorní variabilita stanovení absolutních počtů CD34+ hematopoetických progenitorových buněk dle single platform strategie  
*I. Marinov, Ústav hematologie a krevní transfúze, Praha*

- P39. Comparison of Isolation and Characterization of Prostate Stem Cells Using Different Approaches  
*Z. Pernicová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
- P40. An Optimized Gating for the Murine Hematopoietic Stem Cell Analysis and Sorting  
*F. Savvulidi et al., 1<sup>st</sup> Faculty of Medicine, Charles University in Prague*
- P41. Automatic Image Processing Approach to Determine Viability and Cell Growth of Mesenchymal Stem Cells  
*J. Skopalík et al., Faculty of Medicine, Masaryk University, Brno*

### **Veterinary Cytometry**

- P42. Changes in Lymphocyte Subsets in Porcine Colostrum and Milk during First Days of Lactation  
*K. Babíčková et al., Veterinary Research Institute, Brno*
- P43. Flow Cytometry-based Detection of In Vitro Interaction between Bovine Peripheral Blood Leukocytes and Virus of Bovine Viral Diarrhoea  
*M. Faldyna et al., Veterinary Research Institute, Brno*
- P44. CFSE-based Proliferative Assay in Encephalitozoon Cuniculi Infected Rabbits  
*E. Jeklová et al., Veterinary Research Institute, Brno*
- P45. Adenosine Modulates Cytokine Production by Porcine Monocytes In Vitro  
*P. Ondráčková et al., Veterinary Research Institute, Brno*
- P46. Cytokine Production by Monocyte Subpopulations from Healthy and Actinobacillus Pleuropneumoniae-infected Pigs  
*P. Ondráčková et al., Veterinary Research Institute, Brno*
- P47. Flow Cytometry Study of Peripheral Blood and Cecal Intraepithelial Lymphocytes in Salmonella Infection after Probiotic Administration  
*V. Revajová et al., University of Veterinary Medicine and Pharmacy, Košice, Slovak Republic*
- P48. CD4+ and  $\gamma\delta$ TCR+ T Lymphocytes Are Sources of Interleukin-17 in Swine  
*H. Štěpánová, Veterinary Research Institute, Brno*

## Plant Cytometry

- P49. Development of Flow Cytogenetics for Wild Relatives of Bread Wheat: *Aegilops umbellulata*, *Ae. comosa* and Their Allotetraploid Hybrids *Ae. biuncialis* and *Ae. geniculata*  
*J. Doležel et al., Institute of Experimental Botany, Academy of Sciences of the Czech Republic, v.v.i., Olomouc, Czech Republic*
- P50. Chromosome Genomics Facilitates Mapping and Sequencing the Complex Genome of Bread Wheat  
*J. Doležel et al., Institute of Experimental Botany, Academy of Sciences of the Czech Republic, v.v.i., Olomouc, Czech Republic*
- P51. Flow Cytometry: A Tool to Dissect Grass Genomes  
*J. Doležel et al., Institute of Experimental Botany, Academy of Sciences of the Czech Republic, v.v.i., Olomouc, Czech Republic*
- P52. Genome Size and DNA Base Composition of Geophytes: The Mirror of Phenology and Ecology?  
*P. Veselý, Faculty of Science, Masaryk University, Brno*
- P53. Flow Cytometry and Its Usage for the Evaluation of Effects of Chemical and Physical Stressors on the Cyanobacterium *Microcystis*  
*P. Mikula et al., Institute of Botany, Academy of Sciences of the Czech Republic, v.v.i., Brno, Czech Republic*
- P54. Measurements of DNA Base Composition with Flow Cytometry and DNA Temperature Melting  
*J. Šmerda et al., Faculty of Science, Masaryk University, Brno*

## Data Analysis

- P55. Commonly Used ROS-sensitive Fluorescent Probes Are Substrates of ABC Transporters  
*J. Procházková et al., Faculty of Science, Masaryk University, Brno*

**10.30 – 11.45 Parallel Session – New Methods***Chairmen: T. Kalina, O. Kryštůfková*

37. Flow Cytometric Immunobead Assay for PML-RARA Fusion Protein Detection  
*V. Kanderová et al., CLIP and 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
38. Flow Cytometry Microsphere-based Affinity Proteomics – New Tool for Childhood Acute Leukemia Profiling  
*V. Kanderová et al., CLIP and 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
39. NK and NKT Cells Increase after Rituximab Treatment in Patients with Rheumatoid Arthritis  
*O. Kryštůfková et al., 1<sup>st</sup> Faculty of Medicine, Charles University in Prague*
40. Tuberculosis Antigen-specific Immune Response Detected by Enzyme-linked Immunospot Technology  
*A. Lochmanová et al., Institute of Public Health, Ostrava*
41. Novel Methods and Approaches in Cytometry  
*J. Svoboda et al., Institute of Microbiology, Academy of Sciences of the Czech Republic, v.v.i., Prague*

**12.35 – 13.45 Lunch****15.15 – 16.30 Parallel Session – Plant Cytometry***Chairmen: J. Suda, J. Doležel*

42. The Evolution in the Genus *Carex* (Cyperaceae) – The Use of Flow Cytometry  
*I. Hralová et al., Faculty of Science, Masaryk University, Brno*
43. Generative Reproduction of the Polyploid Complex *Allium oleraceum* and Its Influence on the Cytotype Composition of the Populations  
*M. Jandová et al., Faculty of Science, Palacký University, Olomouc*
44. The Evolution and Meaning of DNA Base Composition in Monocots  
*P. Šmarda et al., Faculty of Science, Masaryk University, Brno*
45. Contribution of Chromosome Flow Sorting to the Analysis of Complex Genomes in Small Grain Cereals  
*J. Vrána et al., Institute of Experimental Botany, Olomouc*

46. Understanding the Whole Genome Processes in a World Biodiversity Hotspot: Flow Cytometric Investigations of the Cape Flora  
*J. Suda et al., Charles University in Prague and Academy of Sciences of the Czech Republic, v.v.i., Prague*

**Tuesday, October 11, 2011**

**Conference Hall**

**8.30 – 9.30 Plenary Session III**

*Chairmen: T. Eckschlager, P. Bureš*

47. Universal Relation between Genome and Stomatal Size across Tracheophytes and Putative Genome Expansion during Terrestrialization of Plants  
*P. Bureš, Faculty of Medicine, Masaryk University, Brno*
48. Detection and Monitoring of Normal and Leukemic Cell Populations with Hierarchical Clustering of Flow Cytometry Data  
*K. Fišer et al., CLIP and 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
49. An Algorithm for Automated Identification of Cell Populations in Flow Cytometry  
*P. Májek et al., ADINIS, s.r.o., Bratislava, Slovak Republic*

**9.30 – 10.20 Company Presentations – Partners III**

*Chairmen: T. Eckschlager, P. Bureš*

50. BioTech a.s.  
Imaging and High Throughput Screening Flow Cytometry  
*I. Valerián*
51. KRD – obchodní společnost, s.r.o.  
Living Colors Fluorescent Proteins Overview  
*Z. Zubáčová*
52. Roche s.r.o.  
"Seeing Is Believing." Automated Multiparameter Cell Analysis on Cellavista System  
*N. Jurčková*
53. Exbio Praha a.s.  
Development of Novel Monoclonal Antibody to Folate Receptor (FOLR2) for FACS Analysis of M2-type Macrophages  
*M. Suchánek*

54. CYTOGNOS  
Cytognos, New Developments in Flow Cytometry  
*P. Peňalosa*

10.20 – 10.50 *Coffee Break*

**10.50 – 11.35 Parallel Session – Data Analysis**

*Chairmen: J. Motlík, K. Souček*

55. Flow Cytometry Microsphere-based Proteomics – Data Analysis  
*K. Fišer et al., CLIP and 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
56. Trajectories and Dynamics of Chromatin-related Proteins Studied in Living Cells  
*L. Stixová et al., Institute of Biophysics, Academy of Sciences of the Czech Republic, v.v.i., Brno*
57. Interaction of Endonuclease G with Histone H2B, AIF, and DNA Topoisomerase II Alpha during Apoptosis as Revealed by FRET Imaging of Living Cells  
*M. Vařecha et al., Masaryk University, Brno*

**11.35 – 12.35 Parallel Session – Stem Cells**

*Chairmen: J. Motlík, K. Souček*

58. Effect of Histone Deacetylase Inhibitor Valproate on Expression of CD133 in Neuroblastoma Cell Line  
*Ashraf M. Khalil et al., 2<sup>nd</sup> Faculty of Medicine, Charles University in Prague and University Hospital Motol, Prague*
59. Miniature Pig – An Ideal Preclinical Model of Cell Therapy?  
*S. Juhas et al., Institute of Animal Physiology and Genetics, Academy of Sciences of the Czech Republic, v.v.i., Liběchov*
60. iPS Cells in Miniature Pigs  
*P. Vodička et al., Institute of Animal Physiology and Genetics, Academy of Sciences of the Czech Republic, v.v.i., Liběchov*
61. Different Types of In Vitro-derived Neural Precursors for the Treatment of Brain and Spinal Cord Injury in the Rat  
*K. Turnovcová et al., Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, v.v.i., Prague*

**12.35 – 13.10 Prize Winners, Closing Remarks**  
*Chairmen: J. Doležal, T. Eckschlager*

13.10 Lunch

**Tuesday, October 11, 2011**

**Meeting Hall, 2<sup>nd</sup> Floor**

**10.50 – 12.05 Parallel Session – Cell Biology and Signaling**  
*Chairmen: J. Hofmanová, A. Vaculová*

62. Calcium Mobilization in B-cells after Rituximab and Anti-BCR Treatments  
*M. Borský et al., University Hospital, Brno*
63. LSm Proteins Link Nucleus and P Bodies  
*I. Novotný et al., Institute of Molecular Genetics, Academy of Sciences of the Czech Republic, v.v.i., Prague*
64. Myeloperoxidase Modulates Migration and Extravasation of Neutrophils  
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