

8:50-9:20
9:20-9:30

Registration and morning coffee
 Aula: Official conference opening
 Aula: Plenary session I

Chairmen: Lidia Gackowska and Agata Kubicka

9:30-10:10 **Peter O'Toole**, University of York, UK, *on behalf of BC*, „The Frontiers of Cytometry - we are not alone...“

10:10-10:50 **Alberto Orfao**, University of Salamanca, Spain, “Advances in molecular diagnostics in oncology by flow cytometry“

10:50-11:30 **Raif Yuceel**, University of Exeter, UK, „Cytometry Across Scales: Single-Cell Meets Spatial Cytomics“

Commercial technobytes:



Bioavots: Ritu Mishra, Thermo Fisher Scientific, “Where Sound Meets Science: Acoustic Focusing in Flow Cytometry”



Laborama: Viktorija Stucyte, “FlowJo™ v11 – Powerful analysis for smarter decisions. Upgrade today! Stop by the Interlux and BD booth to see what’s new.”



CytoLogic: Michal Konieczny, “Rethinking Flow Cytometry Solutions: People, Platforms and Possibilities in an Expert-Driven Ecosystem”

11:30-12:00
12:00-13:00

Lunch, exhibition and poster session
 Aula: Plenary session II

Chairmen: Dace Pjanova and Kristine Vaivode

13:00-13:40 **J. Paul Robinson**, Purdue University, USA, „Flow cytometry: Yesterday, today - but what about tomorrow?“

13:40-14:20 **Herve Luche**, Immunomics, CIPHE, France, „Atlas of Immune Cells with Massively Parallel Cytometry“

14:20-15:00 **Christian D Muller**, CNRS, France, “3D Organoid Cultures to Decipher New Drug Targets: Easy Omics Determination with One-Step Cell Recovery“

Commercial technobytes:



Beckton Dickinson: Morten Løbner, “The Power of Imaging-Enhanced Spectral Flow with the BD FACSDiscover™ Platform”;



Beckman Coulter: Andreas Wicovsky, “Extending the CytoFLEX Platform: Seamless Integration of Spectral Capabilities”;



Cytek: Marta Brewinska-Olchowik, “Cytek Aurora™ Evo, the New Standard of Full Spectrum Cytometry”

15:00-15:30
15:30-16:00

Coffee break and poster session (Rapid-fire poster presentations I)

Hall I: Clinical and Translational Flow Cytometry

Chairmen: Mantas Radzevičius and Dorota Beben

16:00-16:30 **Ignazio Caruana**, University Children's Hospital Würzburg, Germany, „Unlocking the Potential of Adoptive Cell Therapy by Targeting Tumor Resistance and T Cell Fitness“

16:30-17:00 **Una Riekstina**, University of Latvia, Latvia, “Macrophage Polarization Shapes Therapy Sensitivity in Acute Myeloid Leukemia”

17:00-17:30 **Alma Strupule and Iveta Gorela**, Children Clinical University Hospital, Latvia, “Loss of CD56 Expression in NK Cells: Challenges, Interpretation, and Diagnostic Significance in Flow Cytometry”

17:30-18:00 **Marjorie Joiner**, Bioavots/Thermo Fisher Scientific, *on behalf of Bioavots*, “Mastering Multicolor Flow Cytometry: From Panel Design to Reliable Results”

18:00-18:15 **Abstract: Monika Kniotek**, Medical University of Warsaw, Poland, “Sex-Based Differences in Immunophenotype in Healthy Blood Donors”



Commercial technobyte: Bioavots: Pierre Le Ninan, Thermo Fisher Scientific, “Bridging Conventional and Spectral Flow Cytometry: The Power of Attune Xenith and Bigfoot”

18:15-18:25
18:30-19:00

Hall II: Flow Cytometry in Basic and Applied Science

Gabija Kugaudaitė and Ignas Lebedis

Kamil Szeliski, Adam Mickiewicz University, Poland, „Calibrating the Invisible: Challenges in Standardization for Nanoparticle Flow Cytometry“

Kieran Brennan, UCD Conway Institute, Ireland, „Extracellular vesicles as a liquid biopsy for multiple myeloma treatment response monitoring“

Marta Zemite, Riga Technical University, Latvia, „Application of flow cytometry in the assessment of microbiological quality of drinking water“

17:30-17:45 Abstract: Marta Maluszek, Nencki Institute, Poland, “Practical Aspects and Results of Extracellular Vesicle Analysis by Flow Cytometry”

17:45-18:00 Abstract: Agnieszka Żak-Bochenek, Wrocław University of Environmental and Life Sciences, Poland, “The use of imaging flow cytometry to evaluate the mechanism of netosis in blood and pulmonary neutrophils in horses”

Abstract: Elise Helena Armulik, University of Tartu, Estonia “The impact of TLR7 pathway in murine thymic cell development”



Commercial technobyte: Cytek: Peter Rhein, “Shedding Light on Extracellular Vesicles with High-Resolution Imaging Flow Cytometry”

19:00-21:00

Hall I: Annual BFCSS member meeting

Hall I: First day closing remarks and Welcome reception



Baltic-American
Freedom Foundation

8:30-9:00

Registration and morning coffee

Hall I: Beginners practical session: Flow for Newbies

Chairmen:

Ilona Uzielienė and Lidia Gackowska

9:00-9:30

Dmitri Lubenets, Tartu University, Estonia, “A Walk in the Flow Cytometry”

9:30-10:00

Michal Maj, Medical University of Lodz, BRaIn laboratories, Poland, “Compensation – a Solution, Not a Problem”

10:00-10:30

Kristine Vaivode, Riga Stradins University, Latvia, “Navigating the Flow Cytometry Journey: A Step-by-Step Guide to the Experimental Workflow”

10:30-11:30

Alfonso Blanco, UCD Conway Institute, Ireland, *Practical presentation:* “Sleeves up and hands on!”

Commercial technobytes:

 **Exbio:** Aleš Efenberk, “EXBIO Praha - introduction and company profile”

 **Samplix:** Bárbara Schlicht, “Xdrop technology and workflows for functional single-cell screening”

 **Sanprobi:** Joanna Sliwa Dominiak, “From strain to function: Flow Cytometry as a tool for probiotic quality, R&D and innovation”

11:30-12:00

12:00-13:00

Lunch, exhibition and poster session

Hall I: Clinical and Translational Flow Cytometry

Hall II: Flow Cytometry in Basic and Applied Science

Chairmen:

Helena Moreira and Agata Kubicka

13:00-13:30

Maciej Zielinski, Medical University of Gdansk, Poland, “Flow cytometric profiling of immune cells in allergic diseases: clinical relevance and applications”

13:30-14:00

Karel Soucek, Institute of Biophysics of the CAS, Czech Society for Analytical Cytometry, Czech Republic, “Desmoglein-2 as a Gatekeeper of Phenotypical Plasticity in Breast Cancer”

Gintarė Surplytė, Vilnius University Hospital Santaros Clinics, Vilnius University, Faculty of Medicine, Institute of Biomedical Sciences, Lithuania „Decoding platelet identity via flow cytometric immunophenotyping“

14:00-14:30

14:30-14:45 Abstract: Irina Holodnuka, Institute of Microbiology and Virology, Riga Stradins University, Latvia, “Inflammatory Chemokine Receptors CCR1 and CCR2 on the Peripheral Blood Lymphocytes in Patients with Chronic Lymphocytic Leukemia”

14:30-15:00

14:45-15:00 Abstract: Grette-Ly Maesalu, University of Tartu, Estonia, “The role of interferon-alpha in thymocyte development”

Abstract: Dorota Kostrzewa-Nowak, Department of Clinical and Molecular Biochemistry, Pomeranian Medical University in Szczecin, Poland, “Application of flow cytometry to assess the presence of proinflammatory cytokines in the urine of pediatric patients with E. coli-induced urosepsis”

15:00-15:15

 **Commercial technobyte: Becton Dickinson:** Morten Løbner, “Unlocking Smarter Design with BD Panel Maker and BD Horizon™ Real Dyes”

15:15-15:25

Vita Pašukonienė and Jan Krasko

Karolina Suveizdė, National Cancer Institute, Lithuania, “Tumor Antigen Presentation Defects: Impact on Immunotherapy Response and Strategies for Therapeutic Modulation in Preclinical Models”

Anita Ligere, Riga Stradins University, Latvia, “Detection and phenotypic characterisation of acetylcholine receptor (AChR)-reactive CD4⁺ T cells in myasthenia gravis using antigen-reactive T cell enrichment (ARTE) and multiparameter flow cytometry”

Ksenija Korotkaja, Latvian Biomedical Research and Study Centre, Latvia, „Multicolour spectral flow cytometry of tumour immune microenvironment in a mouse breast cancer model“

Salvador Cyranowski, Nencki Institute of Experimental Biology, Poland, *on behalf of Cytek*, “Full Spectrum Flow Cytometry Panel for Deep Immunophenotyping of Major Immune Cell Subsets in Glioblastoma Microenvironment”

Abstract: Wojciech Szlasa, Wrocław Medical University, Poland, “Electrochemotherapy with Novel Drug Candidates Enhances Cytotoxicity in Human MCF-7 Breast Adenocarcinoma Cells”

 **Commercial technobyte: Beckman Coulter:** Andreas Wicovsky, “CytoFLEX nano – Innovative Flow Cytometry for Nanoparticle Characterization”

15:30-16:00

Coffee break and poster session (Rapid-fire poster presentations II)

Aula: Plenary session III

Chairmen:

Eiva Bernotienė and Jolita Pachaleva

16:00-16:40

Robert Bob Balderas, Waters Biosciences (formerly BD Biosciences), California, USA, *on behalf of BD*, “Powered by image-enabled spectral analysis: spatial protein localization and detection at the single cell level“

16:40-17:20

Vasiliki Kalodimou, European University Cyprus, Frankfurt Branch, Cyprus, “How AI is driving the future of flow cytometry and regenerative medicine”

17:20-18:00

Elzbieta Rutkowska, Military Institute of Medicine-National Research Institute, Poland, “Expanding the use of flow cytometry – application in non-hematopoietic body fluids”

18:00-18:30

Aula: AWARDS and conference closing