CYTOMETRY “LIFE IN FOCUS”

The Annual Conference of the German Society for Cytometry provides a platform for interdisciplinary exchange in basic research, clinical and industrial developments. Aim of the conference is the promotion of methodological and technical innovation in flow cytometry (FCM), image cytometry (ICM) and slide based cytometry (SBC) which furthers understanding of the cell and its integration into multi-cellular systems. The conference facilitates the communication between physicists, chemists, engineers, biologists, biomedical specialists and industry representatives and sparks new impulses for the participants own research. At the same time it is building bridges for the implementation and commercialization of new diagnostic and biomedical approaches. The yearly meeting of the society is characterised by a friendly and warm atmosphere, which gives upcoming graduate students and postdocs the opportunity to present their research in a both stimulating and relaxed surrounding. This is accompanied by good lectures at an affordable meeting price, and an exciting evening social event.

General Information

Date: September 19-21, 2018
Conference Venue: Friedrich Schiller University Carl-Zeiß-Str. 3 // 07743 Jena // Germany
Conference Language: English
Registration / Abstract Submission: www.dgfz.org
Email: cytometry@ipht-jena.de
Deadline for Abstract Submission: August 17th 2018
Early-Bird Deadline: August 31st 2018

PROGRAM

WEDNESDAY, SEPTEMBER 19TH, 2018

9:00-12:00 PRE-CONFERENCE TUTORIALS

Presentation and Demonstration of Flow Cytometers
Nico Andreas – Institute of Immunology, Jena

Scientific Publication with Special Aspects for Cytometry – Part A
Attila Tárnok – University of Leipzig

Raman Microspectroscopy – a New Tool for Cultivation-free Pathogen Idetification
Petra Rösch – Institute for Physical Chemistry, Jena

12:00-13:00 WELCOME AND REGISTRATION

13:00-14:30 NANOTECHNOLOGY SESSION

Molecular Imaging of Cancer Cells with Ultra-small 5 nm Gold Nanoparticles
Konstantin Sokolov – M.D. Anderson Cancer Center, Houston

14:30-15:30 PRODUCT SLAM

15:30-16:30 COFFEE BREAK & INDUSTRY SESSION

16:30-18:00 CUTTING EDGE SESSION

Light Sheet for the Masses
Emmanuel Reynaud – University College Dublin

18:00-19:00 KEYNOTE

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19:00-22:00 WELCOME RECEPTION AT INDUSTRY EXHIBITION

20:00-22:00 CORE FACILITY NETWORKING EVENT

Users Sorting on High Speed Sorters in a Shared Resource Environment: Effects of a Well Balanced Sorter Training
Claudia Dumrese – University of Zurich

Open IRIS – an Open Source Resource Management Tool Implemented at the University of Mainz
Stefanie Bürger – Institute of Molecular Biology, Mainz

Messenger Apps Facilitate Group Communication: Introduction to Slack
Christian Kukat – Max Planck Institute for Biology of Ageing, Cologne
THURSDAY, SEPTEMBER 20TH, 2018

9:00-10:30 NEW! CORE FACILITY SESSION: REPRODUCIBILITY IN FLOW CYTOMETRY

Validation and Standardization of Flow Cytometry Based Immune Monitoring in Clinical Trials
Mathias Streitz – Institute for Medical Immunology, Charité Berlin

A Novel Method for Flow Cytometer Characterization by Determination of Detector Background, Signal-to-noise, and Dynamic Range
Claudia Giesecke-Thiel – German Rheumatism Research Centre, Berlin

Minimal Requirements for the Presentation of Flow Cytometry Data
Steffen Schmie – German Cancer Research Center, Heidelberg
cytometry.de – the Communication Platform of the DGfZ

Elmar Endl – Medical Faculty University Bonn

10:30-11:00 COFFEE BREAK & POSTER SESSION

11:00-12:30 EUROPEAN GUEST SESSION: HUNGARY

Immunophenotyping of Treatment Naive Patients with Systemic Autoimmune Diseases by Single Cell Mass Cytometry
Gábor Szebeni – Hungarian Academy of Sciences, Budapest

Targeting the HER2 Oncoprotein: Lessons Learned from Quantitative Cytometry
György Vereb – University of Debrecen

The Effect of Microenvironmental Factors on the Development of Myeloma Cells
Gábor Barna – Semmelweis University, Budapest

12:30-13:30 POSTER PITCH & POSTER SESSION

13:30-14:30 LUNCH & POSTER SESSION

14:30-16:00 KLAUS-GOERTTLER-SESSION

NKT Cells Promote Alternative Cross-priming in Two Distinct Phases
Christoph Heuser – Technical University of Munich

Alternative Splicing: An Alternative Level of NLRP3 Inflammasome Regulation
Florian Hoss – University of Bonn

Metabolic Regulation of ILC Mediated Barrier Protection and Pathology
Christoph Wilhelm – University Hospital Bonn

16:00-17:00 POSTER SESSION

17:00-18:00 GUEST LECTURE

Early Precursors of Fluorescence Cytometry: Foundation of Cell Theory and Fluorescence Microscopy
Timo Mappes – Deutsches Optisches Museum

18:00-19:30 MEMBERS ASSEMBLY

19:30-23:00 SOCIAL EVENT & CONFERENCE DINNER

FRIDAY, SEPTEMBER 21TH, 2018

9:30-11:00 MICROBIOLOGY SESSION

Raman Spectroscopic Cytometry for the Detection and Characterization of Bacterial Infection
Ute Neugebauer – Leibniz IPHT, Jena

11:00-11:30 COFFEE BREAK

11:30-13:00 MICROSCOPY SESSION

histoCAT: Analysis of Cell Phenotypes and Interactions in Multiplex Image Cytometry Data
Denis Schapiro – University of Zurich

Super-resolution Microscopy: Challenges and Potentials in Biomedical Research
Christian Eggeling – Leibniz IPHT, Jena

13:00-14:00 FAREWELL & SNACKS FOYER

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