

## 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.dgfbz.org](http://www.dgfbz.org)

**Email:** [cytometry@ipht-jena.de](mailto:cytometry@ipht-jena.de)

**Deadline for Abstract Submission:**  
August 17<sup>th</sup> 2018

**Early-Bird Deadline:** August 31<sup>st</sup> 2018

## PROGRAM

### WEDNESDAY, SEPTEMBER 19<sup>TH</sup>, 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 Identification**  
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

**tba**  
Michael Bauer – University Hospital, Jena

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 20<sup>TH</sup>, 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 21<sup>TH</sup>, 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

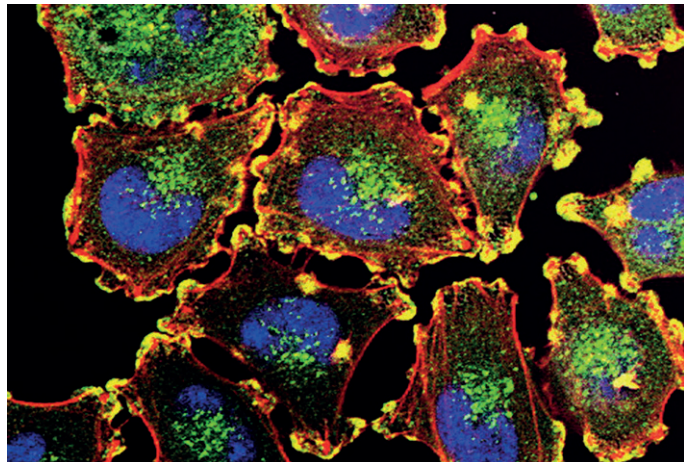
### histoCAT: Analysis of Cell Phenotypes and Interactions in Multiplex Image Cytometry Data

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



Credit: Julio C. Valencia, NCI Center for Cancer Research, National Cancer Institute, National Institutes of Health

### Contact

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