

# **Austrian Society for Cytometry & Swiss Cytometry Society**

## **AlpenFlow 2017**

*9. – 11. November 2017*



**Kongress & TheaterHaus  
Bad Ischl, Austria**



**Location:** *Kongress & TheaterHaus Bad Ischl*  
Kurhausstraße 8  
A-4820 Bad Ischl

**Thursday, 9.11.2017**

07:30 – 08:30 **Registration**

08:30 – 12:00 **Workshops I & II of the Main Sponsors of the OEGfZ (3 in parallel)**

08:30 – 10:00 **Workshop I**

**1. Innovations from BD Life Sciences Biosciences**

Polychromatic Flow Cytometry using the new BD FACSymphony™ analyser:  
Panel design and challenges in data interpretation

Cell sorting simplified with the new BD FACSMelody™ sorter

Enhancing standardization of data and inter-laboratory cooperation with the new  
BD FACSLyric™

**2. Biolegend**

Biolegend – Committed to enabling superior multicolor flow cytometry

10:00 – 10:30 Break

10:30 – 12:00 **Workshop II**

**1. Beckman Coulter**

Harmonization, standardization and quality control in multicolor flow cytometry -  
Standardization vs. Innovation

*Ulrich Sack, Universität Leipzig, Germany*

**2. Miltenyi Biotec**

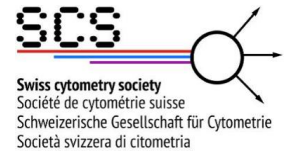
Analysis of antigen-specific T cells

*Petra Bacher, Charité, Berlin & Anne Richter, Miltenyi Biotec GmbH, Germany*

**3. Merck**

Imaging flow cytometry enhances the quantification of NF-kB translocation

12:00 – 13:30 **Lunch & Registration**



13:30 – 18:30 **Workshops III – V** (2 in parallel)

14:00 – 15:30 *Workshops III*

**1. Quality Control**

Validation and QC in Cytometry

*Claudia Dumrese, Zurich, Switzerland & Karl Schratlbauer, Vienna, Austria*

**2. Cell Sorting**

Principles and Tips

*Dieter Printz, Vienna, Austria & Matthias Schiemann, Munich, Germany*

15:30 – 15:45 Break

15:45 – 17:15 *Workshops IV*

**1. Hematology**

Integrative case studies in hematology

*Angelika Hammerer-Lercher, Aarau & Ulrike Bacher, Bern, Switzerland*

**2. CyToF**

Mass cytometry investigation of cellular compartments: unexpected findings and new subset discovery enabled

*Tomas Kalina, Prague, Czech Republic*

17:15 – 17:30 Break

17:30 – 19:00 *Workshops V*

**1. 3D Cell Cultures**

3D cell cultures and visualisation by flow cytometry

*Beate Rinner, Graz, Austria & UPM – The Bioforce Company*

**2. Multicolour**

Multicolour, FMO and Data spreading

*Dieter Printz, Vienna, Austria & Sieghart Sopper, Innsbruck, Austria*

19:30 – 21:30 **Get together** – Kongress & Theaterhaus Bad Ischl

The get together is musically accompanied by the group





## Friday, 10.11.2017

- 8:30 – 8:45 **Opening of the AlpenFlow**  
Presidents of the Austrian Society for Cytometry & Swiss Cytometry Society
- 8:45 – 9:25 **Key note lecture – 21<sup>st</sup> Century Cytometry: Why Flow Can't Climb Every Mountain**  
**Howard Shapiro, West Newton, MA, USA**
- 9:25 – 10:05 Complex cellular profiling with mass cytometry - hurdles to overcome towards wider adoption  
**Vinko Tosevski, Zurich, Switzerland**
- 10:05 – 10:30 Break
- 10:30 – 11:10 Leukemia diagnostics: An integrative approach  
**Torsten Haferlach, Munich Germany**
- 11:10 – 11:50 Flow cytometry in multi-center studies  
**Ioanna Athanasiadou, Geneva, Switzerland**
- 11:50 – 12:30 Multicolor Flow – 17 colors are not enough  
**Martina Sykora, Vienna, Austria**
- 12:30 – 13:30 Lunch
- 13:30 – 14:10 Identification of lymphocytes' subsets abnormalities found in a pilot cohort of 96 patients with Primary Immunodeficiency  
**Tomas Kalina, Prague, Czech Republic**
- 14:10 – 14:35 Primary Immunodeficiencies - inborn errors of the immune system - diagnostic chances & limits of cytometry  
**Elisabeth F rster-Waldl, Vienna, Austria**
- 14:35 – 15:00 Advanced diagnosis of common variable immunodeficiency (CVID)  
**Michaela Fux, Bern, Switzerland**
- 15:30 – 16:00 Break
- 16:00 – 16:25 Phenotypically and genotypically precise characterization of a new established NRAS mutated melanoma cell line  
**Beate Rinner, Graz, Austria**
- 16:25 – 16:50 Imaging flow – "Skin deep" - Applications of imagestream technology in dermatological research  
**Florian Gruber, Vienna, Austria**



16:50 – 17:15 Metabolic configurations of single cells within complex tissue microenvironments  
*Arvand Haschemi, Vienna, Austria*

17:15 – 18:00 **Surprise lecture**

20:00 – 23:00 **Common Dinner in the Cafe-Restaurant Zauner**  
pre-registration required – fee applies 25€

### **Samstag, 11.11.2017**

9:00 – 12:15 **Workshops VI & VII** (2 in parallel)

9:00 – 10:30 **Workshop VI**

#### **1. Flow Cytometry**

Pitfalls and Troubleshooting

*Heimo Strohmaier, Graz, & Andreas Spittler, Vienna, Austria &  
Angelika Hammerer-Lercher, Aarau, Switzerland*

#### **2. Multicolor**

Multicolour, FMO and data spreading

*Dieter Printz, Vienna, Austria & Sieghart Sopper, Innsbruck, Austria*

#### **3. Zellkraftwerk - ChipCytometry**

Future markers on past samples - unlimited biomarker analysis on precious samples with ChipCytometry

*Nancy Stanslowski & Christoph Enz*

10:00 – 10:45 Break

10:45 – 12:15 **Workshop VII**

#### **1. TissueGnostics - TissueFAXS**

"StrataQuest: Image Cytometry Powered by the Champion"

TissueGnostics' image cytometry software StrataQuest won the first place at the Slide Scanner Contest 2016, discipline Image Analysis. In this workshop various applications in tumour biology, immunology, neurology, stem cell research and others will be addressed.

#### **2. Cytognos**

Infinicyt 2.0, Embrace next generation flow – Primary immunodeficiencies

#### **3. Life Technologies GmbH**

The Evolution of Intracellular Flow Cytometry - from Protein to RNA analysis.



## Organisation:

*Ulrike Bacher*

Inselspital Bern, University Clinic for Hematology and Hematology Center Laboratory, Bern, Switzerland

*Paula Fernandez*

Kantonsspital Aarau, Institute of Laboratory Medicine, FACS/Stemcell-Laboratory, Aarau, Switzerland

*Angelika Hammerer-Lercher*

Institute of Laboratory Medicine, Aarau, Switzerland

*Dieter Printz*

Children's Cancer Research Institute, Vienna, Austria

*Sieghart Sopper*

Medical University Innsbruck, Core Facility Flow Cytometry, Innsbruck, Austria

*Andreas Spittler*

Medical University of Vienna, Core Facility Flow Cytometry & Surgical Research Laboratories, Vienna, Austria

## Approbation:

The conference of the "Austrian Society for Cytometry" (9-11.11.2017) is approved for the Diploma Training Program of the ÖÄK with **18 Medical DFP Points** and by *biomed austria - Austrian Professional Association of Biomedical Analysts* with **60 CPD points**.

## Invited Speaker:

*Athanasiadou, Ioanna*

Genevea, Switzerland

*Bacher, Petra*

Charité - University Medicine Berlin, Department of Cellular Immunology, Clinic for Rheumatology and Clinical Immunology, Berlin, Germany

*Bacher, Ulrike*

Inselspital Bern, University Clinic for Hematology and Hematology Center Laboratory, Bern, Switzerland

*Dumrese, Claudia*

University of Zurich, Flow Cytometry Facility, Zurich, Switzerland

*Förster-Waldl, Elisabeth*

Medical University of Vienna, Department of Pediatrics & Adolescent Medicine, Division of Neonatology, Vienna, Austria

*Fux, Michaela*

University Hospital Bern, University Institute of Clinical Chemistry, Bern, Switzerland

*Gruber, Florian*

Medical University Vienna, Department of Dermatology, Division for Biology and Pathobiology of the Skin, Vienna, Austria

***Haferlach, Torsten***

Munich Leukemia Laboratory, Munich, Germany

***Hammerer-Lercher, Angelika***

Institute of Laboratory Medicine, Aarau, Switzerland

***Haschemi, Arvand***

Medival University of Vienna, Clinical Institute of Medical and Chemical Laboratory Diagnosis, Vienna, Austria

***Kalina, Tomas***

Charles University of Prague, Prague, Czech Republic

***Printz, Dieter***

Children's Cancer Research Institute, Vienna, Austria

***Rinner, Beate***

Medical University Graz, Core Facility Alternative Biomodels & Preclinical Imaging, Graz, Austria

***Sack, Ulrich***

University of Leipzig, Leipzig, Germany

***Schiemann, Matthias***

Technical University Munich, Institute of Medical Microbiology, Immunology & Hygiene, Munich, Germany

***Schrattbauer, Karl***

Sozialmedizinisches Zentrum Ost – Donauespital, Institute for Laboratory Medicine, Vienna, Austria

***Shapiro, Howard***

Cytometry Laboratory, West Newton, MA, USA

***Sopper, Sieghart***

Medical University Innsbruck, Core Facility Flow Cytometry, Innsbruck, Austria

***Spittler, Andreas***

Medical University of Vienna, Core Facility Flow Cytometry & Surgical Research Laboratories, Vienna, Austria

***Strohmaier, Heimo***

Medical University Graz, Core Facility Flow Cytometry, Graz, Austria

***Sykora, Martina***

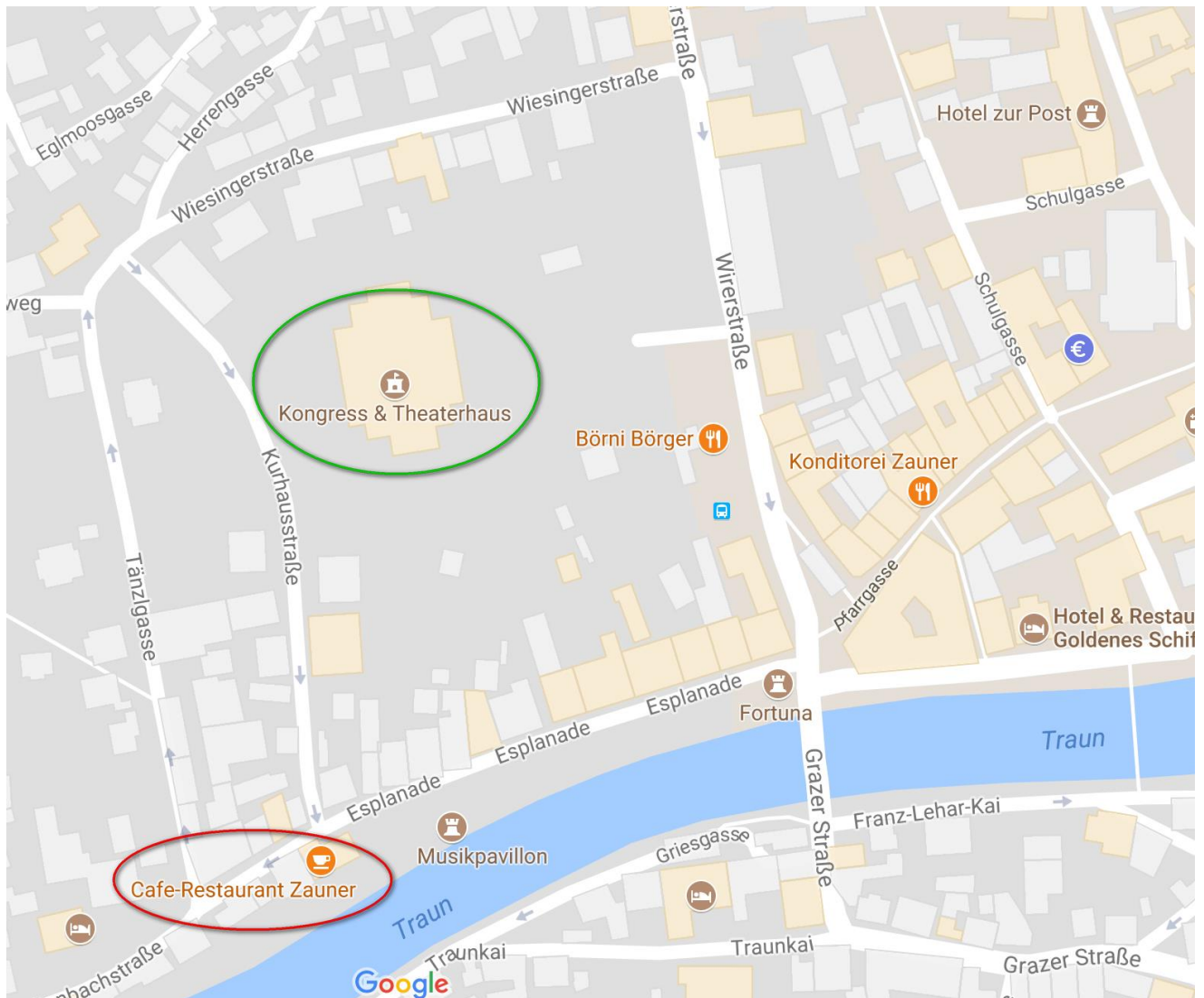
Boehringer-Ingelheim, Vienna, Austria

***Tosevski, Vinko***

University of Zurich, Mass Cytometry Facility, Zurich, Switzerland



The **joint dinner** for pre-registered participants takes place in the "**Cafe-Restaurant Zauner**", Hasnerallee 2 (Esplanada), 4820 Bad Ischl (red circle).



**Imprint:**

Austrian Society for Cytometry  
c/o Vienna Medical Academy for Medical Education and Research  
Alserstraße 4, 1st courtyard, 1090 Vienna  
Phone: +43 (1) 405 13 83 - 21, Fax: +43 (1) 407 82 74  
E-mail: ds@medacad.org

Version of 31.07.2017, subject to any changes