

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**

08:30 – 10:00 **Workshop I** (2 in parallel, each WS 1.5 hours)

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

Jens Fleischer, Becton Dickinson, Germany

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

Josefa Pichler, Becton Dickinson, Austria

2. Biolegend

Biolegend – Committed to enabling superior multicolor flow cytometry

10:00 – 10:30 **Break**

10:30 – 12:00 **Workshop II** (3 in parallel, each WS 1.5 hours)

1. Beckman Coulter

Harmonization: Quality Control in multicolor Flow Cytometry; Validation and
Standardization in multi-center clinical trials; Standardization vs. Innovation.

*Ulrich Sack, Universität Leipzig & Mathias Streitz, Charité Berlin &
Michael Braun, Beckman Coulter, Germany*

2. Miltenyi Biotec

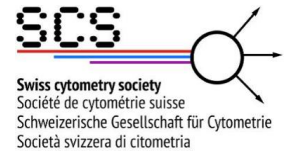
Analysis of antigen-specific T cells

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

3. Merck

Imaging flow cytometry enhances the quantification of NF-κB translocation

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



13:30 – 18:30 **Workshops III – V**

14:00 – 15:30 **Workshops III** (2 in parallel, each WS 1.5 hours)

1. Quality Control

Validation and QC in Cytometry

Karl Schratlbauer, Vienna, Austria & NN

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** (2 in parallel, each WS 1.5 hours)

1. Hematology

Integrative case studies in hematology

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

2. CyToF

Welcome to the future of single-cell proteomics: Helios and Hyperion mass cytometry systems

Andrius Serva, Fluidigm, Germany

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** (2 in parallel, each WS 1.5 hours)

1. 3D Cell Cultures

3D cell cultures and visualisation by flow cytometry

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

2. Multicolour

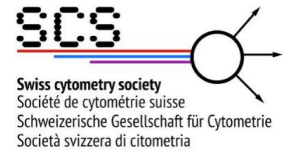
Multicolour, FMO and Data spreading

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

19:00 – 21:30 **Get together** – Kongress & Theaterhaus Bad Ischl

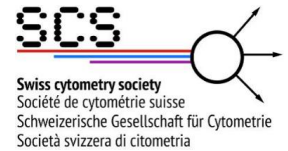
The get together is musically accompanied by the group





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** – 21st 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
Kamila Czechowska-Kusio, 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 Förster-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
Anne Elisabeth Miller, Vienna, Austria

19:00 – 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**

9:00 – 10:30 **Workshop VI** (3 in parallel, each WS 1.5 hours)

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** (3 in parallel, each WS 1.5 hours)

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:

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

Czechowska-Kusio, Kamila

Genevea, Switzerland

Dirks, Jan

University Hospital Basel, Flow Cytometry Facility, Basel, 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

Miller, Anne Elisabeth

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

Streitz, Matthias

Charité Berlin, Berlin, Germany

Strohmaier, Heimo

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

Sykora, Martina

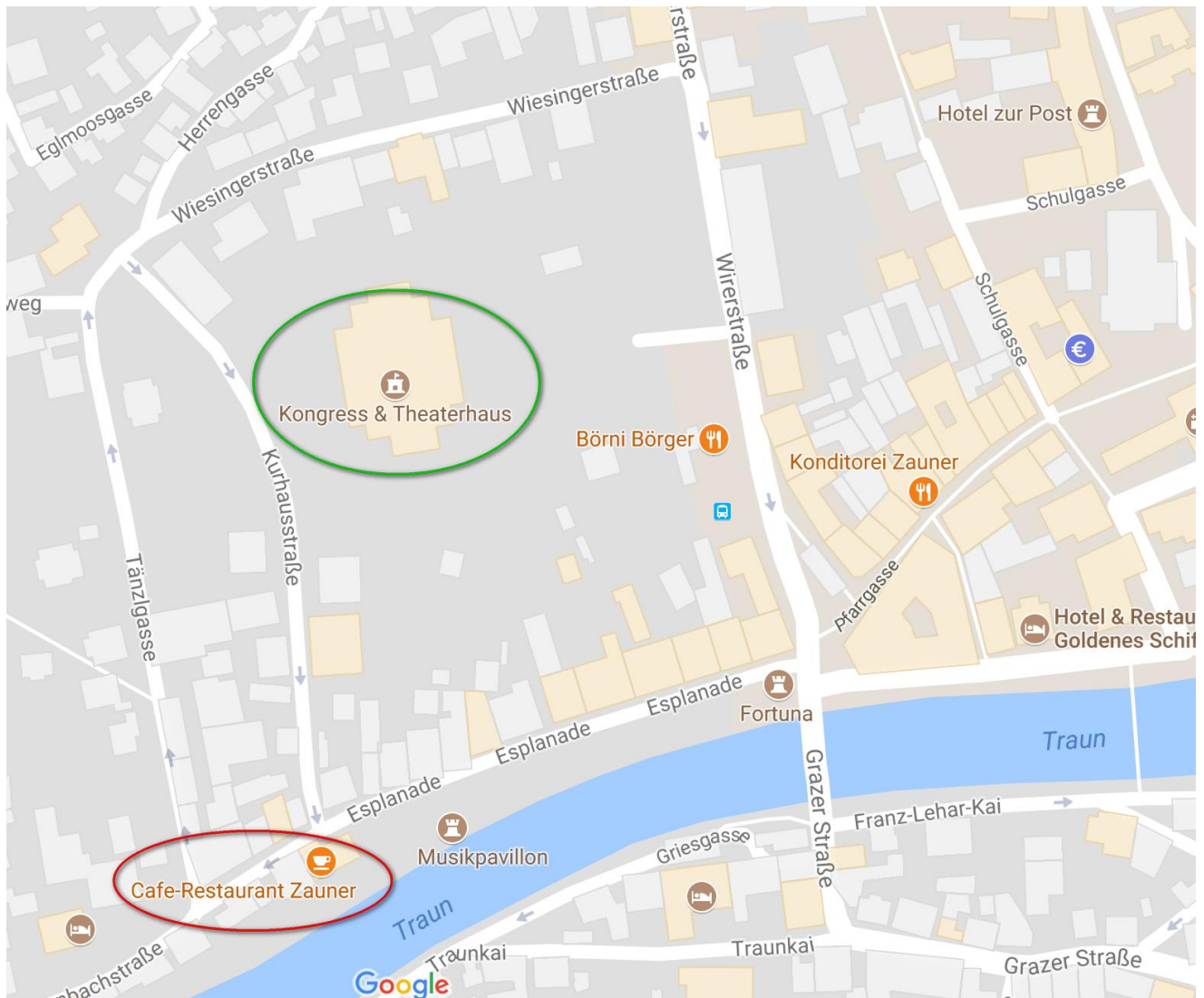
Boehringer-Ingelheim, Vienna, Austria

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

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