

12:15–13:30 Lunch

Döner is sponsored by Dr. Jörg Schlegel,  
BioInnovas AG

**13:30–14:30 Imaging Flow Cytometry  
enables new applications**

Dr. Jörg Schlegel, BioInnovas AG, Switzerland

**Presentation of FHNW Bachelor students:**

**14:30–14:50 Characterization of induced  
apoptosis in hCMEC/D3 cell line**

Patrick Wissner

**14:50–15:10 Cloning and sequencing of ASPV  
genomic RNA**

Noemi Peter

**15:10–15:30 Migration and invasion assays for  
studies of human glioma**

Ulrich Baumgartner

**15:30–15:40 Closing remarks**

Dr. E. Fasler-Kan and Dr. N. Barteneva

15:40–16:15 Coffee break

**16:15–18:15 Demo and practical courses**

on BD instruments, Lab 6.22 and Lab 3.54 (supervisors: Dr. N. Barteneva, Dr. E. Fasler-Kan, K. Ketman, A. Szilvasi and Dr. U. Speck); Image-IQ (supervisor: Dr. Ch. Klas) Room 7.14; Image Stream computer simulations (supervisor: Dr. J. Schlegel) Aula 7.48

**18:15–19:00 Questions, Answers and  
Discussions with Supervisors**

19:00 End of workshop

## SPEAKERS

Tudor Arvinte, University of Geneva, Switzerland  
Natasha Barteneva, Harvard University, USA  
Ulrich Baumgartner, FHNW, Switzerland  
Peter Engel, BD Accuri, Germany  
Elizaveta Fasler-Kan, FHNW, Switzerland  
Viktoria Gillich, FHNW, Switzerland

Ken Ketman, Harvard University, USA  
Christiane Klas, Labforce AG, Switzerland  
Denis Martinvalet, University of Geneva, Switzerland  
Noemi Peter, FHNW, Switzerland  
Mari Prica, FHNW, Switzerland  
Florian Rohrbach, Becton Dickinson, Germany  
Stephan Ruetz, Novartis AG, Switzerland  
Jörg Schlegel, BioInnovas AG, Switzerland  
Michael Schneider, BÜHLMANN Labs, Switzerland  
Stefan Schnell, Miltenyi Biotec, Germany  
Jochen Schwendemann, Miltenyi Biotec, Germany  
Uwe Speck, Becton Dickinson, Germany  
Matthias Steinberg, Partec, Germany  
Martin Stöckli, Olympus AG, Switzerland  
Akos Szilvasi, Novartis AG, Cambridge, USA  
Claudio Vallan, FlowJo, Celeza GmbH, Switzerland  
Ivan Vorobjev, Moscow State University, Russia  
Patrick Wissner, FHNW, Switzerland

## THE ORGANIZING AND PROGRAM COMMITTEE

### Chair

Dr. E. Fasler-Kan  
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### Co-chair

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### Advisors of Organizing Committee

FHNW: Prof. G. Huber, Prof. D. Gyax, Dr. W. Stark  
Moscow State University: Prof. I. Vorobjev  
University of Basel: Prof. P. Meyer, Prof. J. Huwyler,  
Prof. L. Terracciano

### Brochure Design

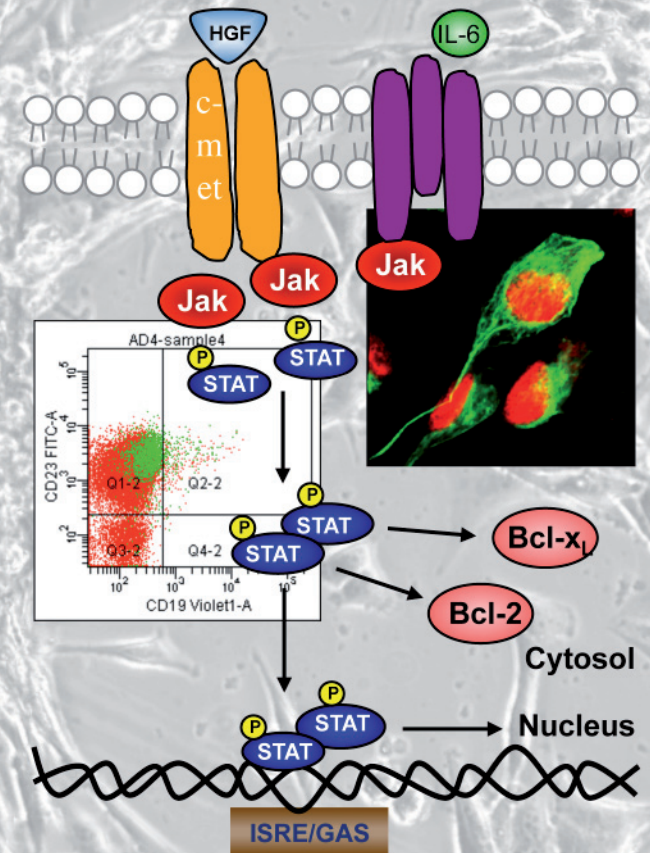
Désirée Dürr (FHNW)

### Sponsors

Labforce AG, Bioconcept, Miltenyi Biotec,  
Datalynx AG (IT Services), BioInnovas AG,  
FlowJo Celeza GmbH, Becton Dickinson

# 1<sup>st</sup> Swiss International Workshop on Flow and Imaging Cytometry

September 13<sup>th</sup> – 16<sup>th</sup>, 2011



University of Applied Sciences  
Northwestern Switzerland (FHNW)

Mattenstrasse 22, WRO-1060  
Basel, Switzerland

## 13.09.11 TUESDAY

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### 13:00–15:30 Registration

*Session Chair: Prof. D. Gygax  
(FHNW, Switzerland)*

### 15:30–16:00 Welcome remarks

Prof. Gerda Huber, Director of Hochschule für Life Sciences and Prof. Daniel Gygax, Head of Bachelor Program

### 16:00–18:00 Fluorescence: basic principles

Prof. T. Arvinte, University of Geneva, Switzerland

## 14.09.11 WEDNESDAY

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### Flow cytometry and applications

*Session Chair: Dr. E. Fasler-Kan  
(FHNW, Switzerland)*

### 9:00–10:00 Introduction in flow cytometry

Dr. U. Speck, Becton Dickinson, Germany

### 10:00–10:40 The basics of cell cycle analysis in research cytometry. Controls in flow cytometry

Akos Szilvasi, Novartis Institutes of Biomedical Research, Cambridge, USA.

*10:40–11:00 Coffee Break*

### 11:00–11:45 Fluorochromes and Quantum dots for cytometry and microscopy

Prof. Ivan Vorobjev, Moscow State University and Russian Hematology Center, Russia.

### 11:45–12:15 Application of flow cytometry in allergy testing

Michael Schneider, BÜHLMANN Labs, Switzerland

*12:15–13:30 Lunch*

*Pizza is sponsored by Dr. Christiane Klas,  
Labforce AG, Switzerland*

### 13:30–14:15 Life-Cell Imaging System, Cell-IQ

Dr. Christiane Klas, Labforce, Switzerland

### Industrial Cytometry and Cytometry applications

### 14:15–15:30 Company Presentations

Becton Dickinson: Dr. Uwe Speck

Miltenyi Biotec: Dr. Jochen Schwendemann

Partec: Dr. Matthias Steinberg

*15:30–16:00 Coffee break*

### 16:00–18:30 Demo and practical courses

on BD instruments, Lab 6.22 and Lab. 3.54 (supervisors: Dr. E. Fasler-Kan, Dr. U. Speck, K. Ketman, A. Szilvasi, Prof. I. Vorobjev and Dr. N. Barteneva); Accuri Room 6.46 (supervisor Dr. P. Engel); Partec Room 7.14 (supervisors: Dr. Ch. Klas and Dr. Matthias Steinberg); Miltenyi Biotec Room 7.70 (supervisors: Dr. J. Schwendemann and Dr. S. Schnell)

## 15.09.11 THURSDAY

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### Flow cytometry and applications, cell sorting

*Session Chair: Dr. Natasha Barteneva  
(Harvard Medical School, USA)*

### 9:00–9:40 Application of phospho-specific antibodies for studies of JAK-STAT signaling pathway

Dr. Elizaveta Fasler-Kan, FHNW, Switzerland

### Presentation of FHNW Bachelor students:

### 9:40–10:00 Application of purified bees and wasp allergens in basophile activation test

Mari Prica

### 10:00–10:20 Influence of thrombocytes on the differentiation of endothelial progenitor cells

Viktoria Gillich

*10:20–10:45 Coffee break*

### 10:45–11:30 Multicolor cytometry. Compensation in flow cytometry

Dr. N. Barteneva, Immune Disease Institute, Harvard Medical School, USA

### 11:30–12:15 Cell sorting. Principles and overview of instruments

Ken Ketman, Immune Disease Institute, Harvard Medical School, USA

*12:15–13:15 Lunch  
Sandwiches*

### 13:15–14:00 Cell sorting in cancer research

Prof. Ivan Vorobjev, Moscow State University and Russian Hematology Center, Russia

### 14:00–15:00 Software for flow cytometry. FlowJo and data analysis

Dr. Claudio Vallan, FlowJo Switzerland

*15.00–15.30 Coffee break*

### 15:30–18:00 Demo and practical courses

on BD instruments, Lab 6.22 and Lab 3.54 (supervisors: Dr. N. Barteneva, Dr. E. Fasler-Kan, K. Ketman, A. Szilvasi and Dr. U. Speck); Accuri Room 6.46 (supervisor Dr. P. Engel); Miltenyi Biotec Room 7.70 (supervisors: Dr. J. Schwendemann and Dr. S. Schnell); Partec Room 7.14 (supervisors: Dr. Ch. Klas and Dr. Matthias Steinberg)

### 18:00–20:30 Get together. Wine and cheese Party

## 16.09.11 FRIDAY

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### Imaging cytometry and automated microscopy

*Session Chair: Prof. Ivan Vorobjev  
(Moscow State University, Russia)*

### 9:00–10:00 Confocal laser microscopy

Dr. Martin Stöckli, Olympus AG, Switzerland

### 10:00–10:45 Laser scanning microscopy

Dr. Stephan Ruetz, Novartis AG, Switzerland

*10:45–11:00 Coffee break*

### 11:00–11:30 ROS detection and flow cytometry

Dr. Denis Martinvalet, University of Geneva, Switzerland

### 11:30–12:15 Cell Imaging

Dr. Florian Rohrbach, Becton Dickinson, Germany