



Münster Conference on
Single Cell Analysis
Progress in Research and Technology
Münster, November 16, 2004

Program

- 8:00 Registration
- 8:25 Opening Address
Clemens Sorg, Chairman of IZKF Münster
- 8:30 - 9:00 Hergo Holzhütter, Berlin
Computational systems biology: Towards in silico cell models?

Session I: Expression analysis (Chair: Clemens Sorg, Münster)

- 9:00 - 9:30 Ludger Fink, Giessen
The necessity of cell- and cell type-specific expression analyses in cardiopulmonary research
- 9:30 - 10:00 Jan Buer, Braunschweig
Immunogenetics at the single cell level
- 10:00 - 10:15 Coffee Break

Session II: Proteomics (Chair: Simone König, Münster)

- 10:15 - 10:50 Norman Dovichi, Seattle
Single cell proteomics
- 10:50 - 11:20 Bernhard Spengler, Giessen
Higher mass accuracy, higher lateral resolution: A closer view of single cells

Invited Industrial talks

- 11:20 - 11:50 Markus Stöckli, Basel (Novartis)
MALDI mass spectrometric imaging applied in the race for new cures

Lunch

Session II continued

- 13:00 - 13:30 Yilman Niyaz, Bernried (Palm)
Laser micromanipulation and capture of single cells - New approaches in cell and molecular biology
- 13:30 - 14:00 Walter Schubert, Magdeburg (Meltec)
In situ proteomics imaging: analysing "real world" protein networks within intact cells and tissues

Session III: **Single Cell Technologies** (Chair: Hans Oberleithner, Münster)

- 14:00 - 14:30 Dario Anselmetti, Bielefeld
Nanobiology: From single molecule detection and manipulation towards single cell analysis in microfluidic networks
- 14:30 - 15:00 Jörg Fitter, Juelich
Fluorescence spectroscopic techniques to study protein/protein interactions and conformational changes on the single molecule level
- 15:00 - 15:30 Martina Havenith-Newen, Bochum
Towards scanning (near field) infrared laser microscopy of cells
- 15:30 - 15:45 Coffee Break
- 15:45 - 16:15 Hans Oberleithner, Münster
Imaging cell surface and volume with atomic force microscopy
- 16:15 - 16:45 Winfried Denk, Heidelberg
Serial block face scanning electron microscopy
- 16:45 - 17:00 Concluding Remarks
Solon Thanos, member of the IZKF-board Münster