

4th Münster Conference on Single Cell Analysis

November 26 - 27, 2007



Monday, 26th November

Opening and Introduction

13:00 Stephan Ludwig, IFG Münster

Keynote Lecture

13:05 **Stephen D. Ginsberg**, New York University
Single cell gene expression analysis in human
postmortem brain tissues and animal models of
neurodegeneration

Session I: Miniaturization & Biosensors

Chair: Dietmar Fischer, University of Ulm

14:00 **Berenike Maier**, University of Münster
Regulation and force generation of the DNA import motor of *Bacillus subtilis*

14:30 **Andrea Robitzki**, University of Leipzig
Frontiers in nano- and microstructures on microarrays
for real time and online biomonitoring of cellular physiology

15:00 **Petra Dittrich**, ISAS Dortmund
Microfluidic platforms for analysis of living cells and 3D lipid
structures

15:30 **Coffee Break**

Session II: Genomics & Proteomics

Chair: Berenike Maier, University of Münster

16:00 **Walter Schubert**, University of Magdeburg
The human TOPONOME project: deciphering the protein network
code until 2020

16:30 **Dietmar Fischer**, University of Ulm
New insights into molecular mechanisms underlying axon
regeneration through cell sorting.

17:00 **Markus Veit**, Sigma-Aldrich
Single cell whole genome amplification: Unleashing a world within a
cell

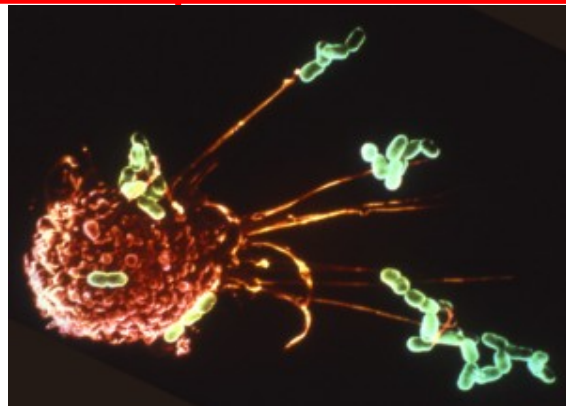
17:30 **Conference get together**

Satellite Events

10:30 **Noushin Delmdahl**, Sartorius Stedim Biotech Workshop
Being fast and efficient – New technologies for reliable sample
preparation

11:00 **Martin Pieprzyk**, Fluidigm Workshop
BioMark microfluidic arrays: A proven method to quantify gene
expression within a single cell

12:00 **Kurt Sieberns**, Miltenyi Biotec
Gene expression profiling of Super-Amp™-ified laser capture
microdissected samples

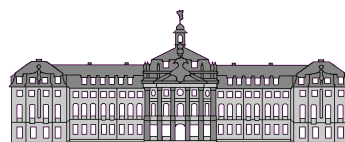


Conference Office and Organization:

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Conference Site:

Conference Halls
Technology Park
Mendelstr. 11
D-48149 Münster



Tuesday, 27th November

Session III: Technologies

Chair: Connie Jiminez, University of Amsterdam

- 9:00 **Jörg Enderlein**, University of Tübingen
Two-focus Fluorescence Correlation Spectroscopy: A versatile tool for precise measurements of molecular diffusion
- 9:30 **Volker Dötsch**, University of Frankfurt
Investigation of conformation and dynamics of proteins inside living cells by in-cell NMR spectroscopy
- 10:00 **Coffee Break**

Session IV: Advances in Mass Spectrometry

Chair: Simone König, University of Münster

- 10:30 **Connie Jiminez**, University of Amsterdam
From mass spectrometric peptide profiling of single neurons towards imaging mass spectrometry
- 11:00 **Jaume Seuma**, University of Sheffield
Fine scale measurement and mapping of cancer biomarkers via laser ablation ICP mass spectrometry
- 11:30 **Keith Compson**, Waters Corporation
MALDI Synapt HDMS system: Advances in high-efficiency ion mobility mass spectrometry
- 12:00 **Concluding remarks**

Satellite Events

- 13:00 **Theo Pelzer**, University of Würzburg
Sex hormones and cardiovascular disease; novel ligands, new hopes and clinical implications
- 13:30 **Monika Stich**, P.A.L.M. Microlaser
Laser Microdissection of single living cells opens new fields of applications.

SPONSORS:

GOLD: Fluidigm, Sartorius Stedim Biotech, Sigma-Aldrich, Waters

SILVER: Aura-Optik, Miltenyi Biotech, P.A.L.M Microlaser

BRONZE: Advantix, Affymetrix, Agilent, Bruker-Daltonics, Eppendorf, Keyence, Springer, Agilent

Registration:

On-site: 50 €
Free for Münster scientists

More Information and online registration at
<http://ifg-izkf.uni-muenster.de>

Accommodation:

Close to the conference site:

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