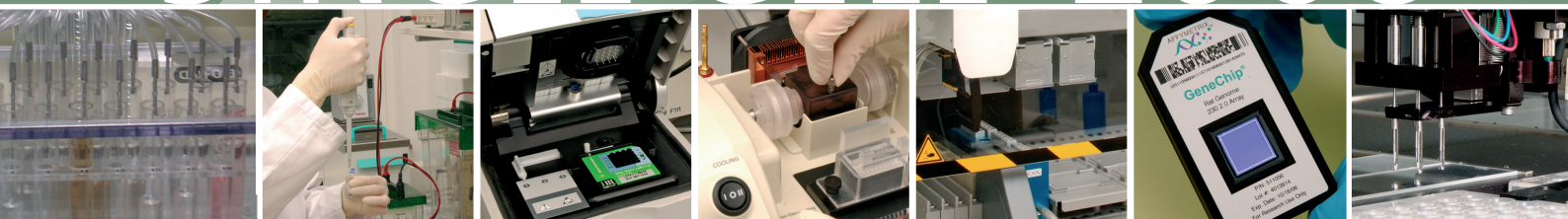


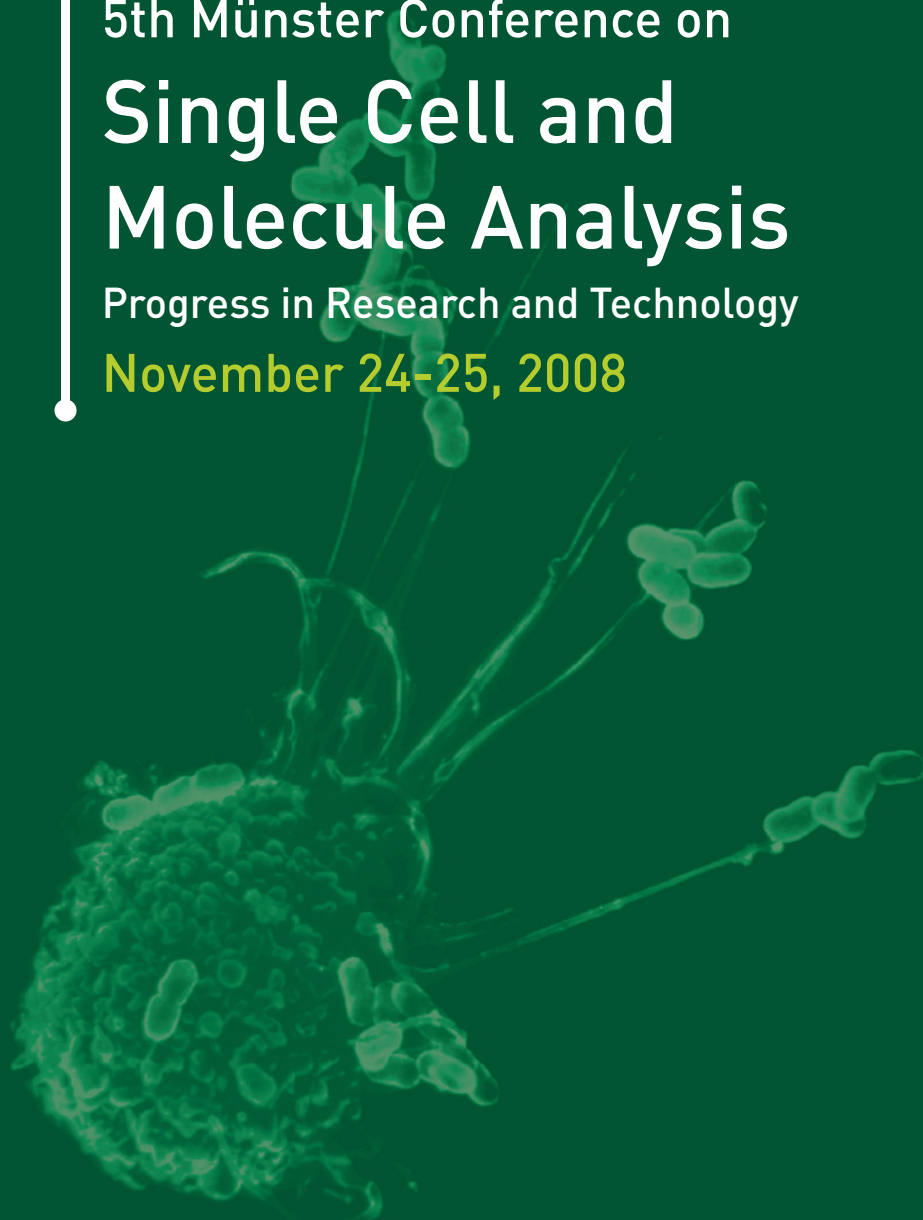
SINGLE CELL 2008



5th Münster Conference on Single Cell and Molecule Analysis

Progress in Research and Technology

November 24-25, 2008



Under the Auspices

of the Interdisciplinary Center for Clinical Research (IZKF)
„The Chronic Disease“ of the Medical Faculty of the University of Münster

Technology Platform and Core Unit
„Integrated Functional Genomics“ (IFG)

Organizing Committee

PD Dr. Simone König (IFG Proteomics Facility)
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Conference Venue

Max-Planck-Institute
for Molecular Biomedicine
Röntgenstr. 20
48149 Münster

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Program

Monday, November 24

- 1:00 pm **Stephan Ludwig**
Opening and Introduction
- 1:05 pm **Alfred Yergey**
Keynote Lecture
Variability in Mass Spectra – How we can get better answers
- 1:50 pm **Katherina Psathaki**
The cell: An animated Introduction
- 2:15 pm **POSTER & COMPANY EXHIBITION**
- 2:30 pm **WORKSHOP** - LaVision BioTec - Uwe Schröer
BioAnalyzer Gel - Proteomic imaging system for unstained and stained Gels
- 3:15 pm **WORKSHOP** - Carl Zeiss - Monika Stich
Laser Capture Microdissection: A New Dimension in Sample Purity
- SESSION I** **TECHNOLOGY**
CHAIR: **Stephan Ludwig**
- 4:00 pm **Philip Tinnefeld**
From single molecules to biomolecular interactions and super resolution microscopy
- 4:25 pm **Andreas Offenhäuser**
Non-invasive monitoring of cellular ion-channel activity using electronic devices
- 4:50 pm **Uwe Karst**
Quantitative analysis of fluorescently labeled thiols and amines by microchip capillary electrophoresis with wavelength-resolved fluorescence detection
- 5:15 pm **Johannes Wessels**
Popular Science Lecture
Big Bang & Primordial Soup: The hunt for the Quark-Gluon-Plasma
- 6:00 pm **GET-TOGETHER**
- 6:15 pm **MÜNSTER-AT-NIGHT SIGHTSEEING TOUR**

Tuesday, November 25

SESSION II OPTICAL IMAGING

CHAIR: **Malcolm Clench**

- 9:00 am **Christian Lohr**
ATP in the brain: More than an energy currency
- 9:25 am **Michael Schäfers**
Isotope-based imaging of molecular targets in tissues and living animals
- 9:50 am **Christoph Bremer**
In vivo cell tracking using magnetic resonance and optical imaging techniques
- 10:15 am **Klaus Tiemann**
Small animal ultrasound – from functional to molecular imaging
- 10:40 am **COFFEE BREAK**

SESSION III MASS SPECTROMETRIC IMAGING

CHAIR: **Alfred Yergey**

- 11:00 am **Malcolm Clench**
SPOTS, SMOTS and SLOTS - Shotgun Proteomics, Shotgun Metabolomics and Shotgun Lipidomics on Tissue Samples
- 11:25 am **Marten Snel**
MALDI MS Imaging coupled with high-efficiency ion mobility separation
- 11:50 am **Alan Cox**
Towards cellular imaging – An elemental perspective
- 12:15 pm **LUNCH, SEMINAR & COMPANY EXHIBITION**
- 1:00 pm **Cell Biosciences - Andy Higgs**
Getting towards protein isoform assays in single cells
- 1:25 pm **AlphaMetrix - Udo Schimmel**
Gene expression profiling from a minimal number of LCM selected pure cells

Tuesday, November 25

SESSION IV CELLS

CHAIR: Christian Lohr

- 1:50 pm **Christian Wilhelm**
Physiological characterization of plant cells by means of single cell analysis
- 2:15 pm **Heinrich Leonhardt**
Targeting and tracing antigens in living cells
- 2:40 pm **Christian Korfhage**
Single-cell whole genome amplification: Reliability and limits
- 3:05 pm **Jürgen Klingauf**
Coupling of exo- and endocytosis: insights from single-vesicle recordings
- 3:45 pm **END OF CONFERENCE**