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)
Dr. Rita Naskar (IZKF Scientific Office)

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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**  
**CHAIR:** Malcolm Clench  

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>Christian Lohr</td>
<td>ATP in the brain: More than an energy currency</td>
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<tr>
<td>9:25 am</td>
<td>Michael Schäfers</td>
<td>Isotope-based imaging of molecular targets in tissues and living animals</td>
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<tr>
<td>9:50 am</td>
<td>Christoph Bremer</td>
<td>In vivo cell tracking using magnetic resonance and optical imaging techniques</td>
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<tr>
<td>10:15 am</td>
<td>Klaus Tiemann</td>
<td>Small animal ultrasound – from functional to molecular imaging</td>
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<td>10:40 am</td>
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<td><strong>COFFEE BREAK</strong></td>
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**SESSION III**  
**CHAIR:** Alfred Yergey  

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