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#### Fraunhofer IST

- 23 Fluidic separator
- 24 Plasma technology in life sciences
- 25 Antibacterial effect of copper layers on door handles

#### Fraunhofer IZI-BB

- 26 Molecular biological procedures for the reduction of atmospheric methane
- 27 Various apparatus-free on-site rapid test systems for environmental analytics for the specific and nonspecific testing of pathogens and toxins in environmental samples

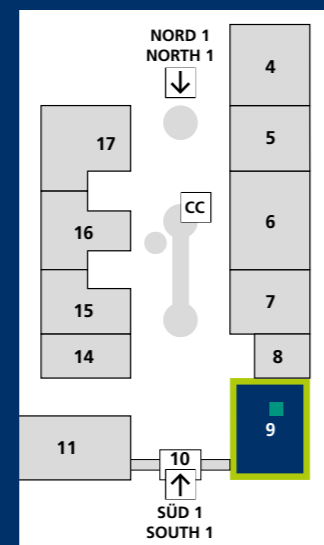
#### Fraunhofer Group for Life Sciences

- 28 Business Units of the Fraunhofer Group for Life Sciences

#### OTHER FRAUNHOFER RESEARCH INSTITUTIONS AT BIOTECHNICA/LABVOLUTION

#### Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Hall 9, Booth 77/1



Hall 9, Booth C34

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Biotechnica, October 6–8, 2015, Hannover, Hall 9, Booth C34

## RAPID MARKET ENTRY THROUGH APPLIED RESEARCH



## RAPID MARKET ENTRY THROUGH APPLIED RESEARCH

Short developmental periods combined with a high client orientation are important success factors for businesses. Here, the Fraunhofer-Gesellschaft as the largest research organization for applied research in Europe can contribute with its application relatedness and market closeness. Translation – the transfer of research results to their application – is a lived concept through the proximity to universities and research institutes, on the one hand, as well as businesses, clinics, and users, on the other hand.

New developments in the life sciences are strongly driven by the interaction of different disciplines such as medicine, computer science, biotechnology, optics, biochemistry, process engineering, material science, and automation. Highly diverse disciplines are connected in the Fraunhofer-Gesellschaft to quickly and successfully accomplish even complex projects for our clients.

Come and see us in Hall 9, Booth C34

#### Scientific coordinator

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## THE FRAUNHOFER EXHIBITORS

**Fraunhofer Institute for Applied Information Technology FIT**  
www.fit.fraunhofer.de

**Fraunhofer Institute for Integrated Circuits IIS**  
www.iis.fraunhofer.de

**Fraunhofer Institute for Chemical Technology ICT,** branch IMM  
www.imm.fraunhofer.de

**Fraunhofer Institute for Applied Optics and Precision Engineering IOF**  
www.iof.fraunhofer.de

**Fraunhofer Institute for Interfacial Engineering and Biotechnology IGB**  
www.igb.fraunhofer.de

**Fraunhofer Institute for Surface Engineering and Thin Films IST,** Braunschweig and Application Center for Plasma and Photonics, Göttingen  
www.ist.fraunhofer.de

**Fraunhofer IGB,** Translational Center "Regenerative Therapies for Oncology and Musculoskeletal Diseases", Würzburg branch  
www.igb.fraunhofer.de

**Fraunhofer Institute for Toxicology and Experimental Medicine ITEM**  
www.item.fraunhofer.de

**Fraunhofer Institute for Cell Therapy and Immunology IZI,** branch Bioanalytics and Biosensors  
www.izi.fraunhofer.de

**Fraunhofer Group for Life Sciences**  
www.lifesciences.fraunhofer.de

**Fraunhofer Group for Life Sciences**

6 Personalized medicine – services in the Fraunhofer Group for Life Sciences

### REGENERATIVE MEDICINE/TISSUE ENGINEERING

**Fraunhofer IGB**

- 7 3D in vitro tissue models as test systems for drugs, cosmetics, and chemicals
- 8 Non-destructive method for quantitative analysis of in vitro skin models
- 9 Customized bioreactors and incubator systems for in vitro culture of human tissue under physiological conditions

**Fraunhofer IST**

10 Atmospheric pressure plasma processes for applications in the field of bio- and medical technology

### BIO-IT & BIG DATA

**Fraunhofer FIT**

11 Interactive high content image analysis

### BIO-SERVICES

**Fraunhofer FIT**

- 12 Fluorescence based quantification of nucleic acids
- 13 Faster sepsis diagnosis

**Fraunhofer IST**

- 14 Inside coating of synthetic bags
- 15 Plasma devices for the variable use of atmospheric pressure plasma

**Fraunhofer ITEM**

16 Pharmaceutical biotechnology – from cell line development to fill & finish

### OTHER THEMES AND EXHIBITS

**Fraunhofer ICT-IMM**

- 17 High temperature reactor for nanoparticle synthesis
- 18 Continuous formation of polymer particles and capsules
- 19 3D plasma treatment of complex microscopic objects

**Fraunhofer IIS**

20 Computer-assisted microscopy: digital pathology and training systems

**Fraunhofer IOF**

- 21 Label-free biosensors based on lateral imaging SPR
- 22 Ultra-thin array-microscope for imaging and sensing

## THE FRAUNHOFER EXHIBITS

HALL 9, BOOTH C 34

### PERSONALIZED MEDICINE TECHNOLOGIES

**Fraunhofer ICT-IMM**

- 1 Lab-on-a-chip technology platform for molecular point-of-care diagnostics
- 2 Miniaturized cytometry with optical tumor cell detection

**Fraunhofer IGB**

3 Next-generation diagnostics and microbiomics

**Fraunhofer ITEM**

- 4 Preclinical models for pharmaceutical development and toxicology tests
- 5 Clinical Research Center Hannover – your partner for clinical studies of phases I and II