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foxySPEC Foto: ©Fraunhofer IGB, Thiol Foto: ©Fraunhofer ILT, Aachen (D)

### Fraunhofer IGB

Process analysis with foxySPEC – Real-time mass spectrometer for simultaneous detection of up to 30 components for gases and liquids.

Fraunhofer Institute for Interfacial Engineering and Biotechnology IGB

[www.igb.fraunhofer.de](http://www.igb.fraunhofer.de)

### Fraunhofer ILT

- “Mavo OptisCell” – The Fraunhofer Institutes ILT, IGB and FIT investigate an automatic process chain for single cell selection, to identify high-producer cell lines for the production of biologicals.
- The LIFTSYS® Workbench Cell Picker enables the optical analysis of cells and their contact-free transfer via Laser Induced Forward Transfer (LIFT) in a closed, air-conditioned workspace.
- Thiol-ene-based photo resins for fabrication of optical components facilitate the development of material systems and a process technology for the personalized production of (micro-) optics using stereolithography.

Fraunhofer Institute for Laser Technology ILT

[www.ilt.fraunhofer.de](http://www.ilt.fraunhofer.de)

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## ANALYTICA 2018

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Micro ECQCL Foto: ©Fraunhofer IAF



TissueGrinder Foto: ©Fraunhofer IPA

### Fraunhofer IPA

- Digitization, planning, and execution of laboratory processes with Merlin.
- Intelligent mechatronic systems maximizing process reproducibility and yields in personalized diagnostics.

Project group for Automation in Medicine and Biotechnology  
PAMB

<http://pamb.ipa.fraunhofer.de>

### Fraunhofer IIS

- SCube® scanning software for digitizing and analyzing bright-field and fluorescence microscopy samples
- Stitching software solution iStix® : a low-cost alternative to digital scanners improving clinical diagnostics
- R&D services and prototyping in the areas of imaging, image and signal analysis, machine learning and systems development

Fraunhofer Institute for Integrated Circuits IIS  
[www.iis.fraunhofer.de](http://www.iis.fraunhofer.de)

### Fraunhofer IPMS

Water Monitoring

Local measurements of pH value, conductivity and temperature without the use of conventional electrolyte reference electrode. Combined measurements in parallel-mode.  
Prerequisite for measuring pH value close to the surface.

Fraunhofer Institute for Photonic Microsystems IPMS  
[www.ipms.fraunhofer.de](http://www.ipms.fraunhofer.de)

### Fraunhofer IZI-BB

The Bioanalytics and Bioprocesses Branch of the Fraunhofer IZI-BB focusses on the development of platform technologies and biotechnological applications in agriculture, food safety and environmental testing as well as drug development and diagnostics. To provide flexible and easy-to use devices or solutions the key aspects of activities encompass complex sample preparations, data collection, miniaturization and automation.

Fraunhofer Institute for Cell Therapy and Immunology, Branch  
Bioanalytics and Bioprocesses IZI-BB  
[www.izi-bb.fraunhofer.de](http://www.izi-bb.fraunhofer.de)

### Fraunhofer IAF

We have developed quantum cascade laser modules which enable real-time continuous spectroscopy of powders, solids and liquids. This can be used for a 100 % control in the chemical and pharmaceutical industry.

Fraunhofer Institute for Applied Solid State Physics IAF  
[www.iaf.fraunhofer.de](http://www.iaf.fraunhofer.de)

### Fraunhofer IOF

- Inkjet-printed functionalities for flexible and low-cost Lab-on-a-Chip systems

Fraunhofer Institute for  
Applied Optics and Precision Engineering IOF  
[www.iof.fraunhofer.de](http://www.iof.fraunhofer.de)

### Cellbox Solutions GmbH

Cellbox is a self-sustaining carbon dioxide incubator supporting the appropriate storage, reproduction, transportation and analysis of biologic materials.  
[www.cellbox-solutions.com](http://www.cellbox-solutions.com)