

Biotechnica, May 16–18, 2017, Hannover, Hall 20, Booth B02

HUMAN HEALTH IS IMPORTANT TO US

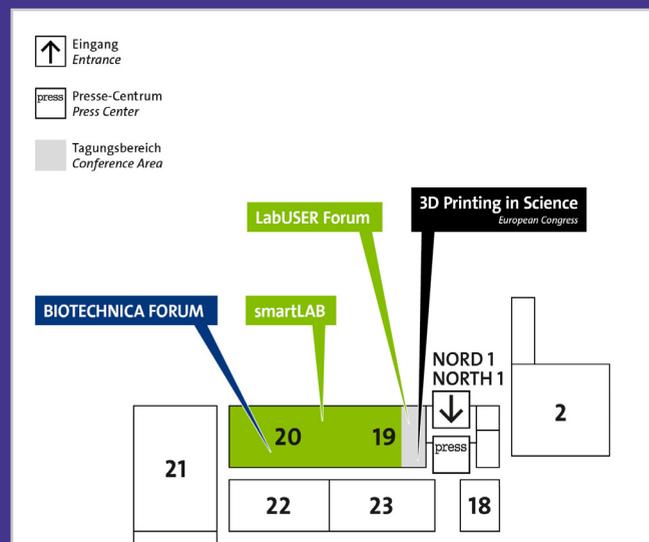
HUMAN HEALTH IS IMPORTANT TO US

Research and development for human health is one focus of the Fraunhofer-Gesellschaft, the largest research organization for applied science in Europe. We combine a broad range of disciplines to tackle challenges – from technology to facilitate drug development, disease research and treatment to ensuring water safety. Innovative developments in the life sciences are strongly driven by the interaction of different areas of expertise including biology, chemistry, biochemistry, biotechnology, medicine, pharmacology, ecology, production technology, lab technology, and surface engineering. Examples of specific projects include cell cultivation in a hanging droplet, bioreactors and 3D incubation systems for *in vitro* human tissue culture, production of scaffolds with a 3D printer, as well as water purification without adding chemicals. Interdisciplinary approaches allow us to find solutions for complex projects tailored to a broad spectrum of needs for the lab as well as applied research.

Come and see us in Hall 20, Booth B02

Scientific coordinator

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□ Hall 20, Booth B02

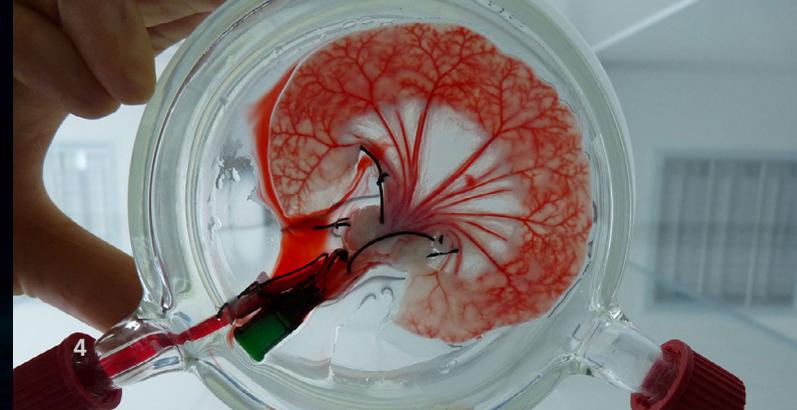
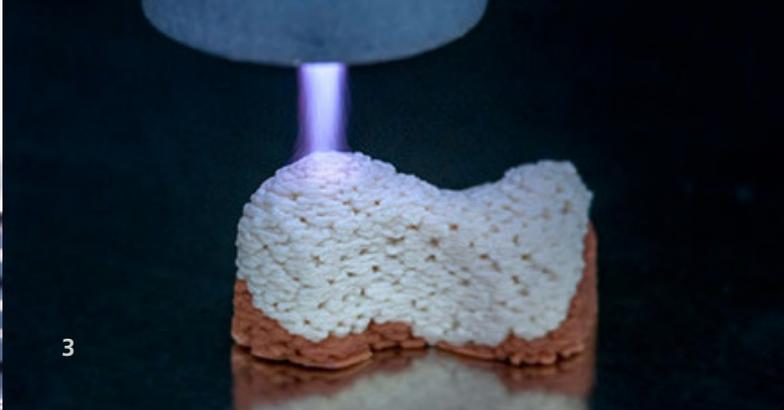
Project management

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THE FRAUNHOFER EXHIBITORS

Fraunhofer Institute for Interfacial Engineering and Biotechnology IGB

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

Fraunhofer Institute for Surface Engineering and Thin Films IST

www.ist.fraunhofer.de

Fraunhofer Institute for Production Technology IPT

www.ipt.fraunhofer.de

Fraunhofer Group for Life Sciences

www.lifesciences.fraunhofer.de

OTHER FRAUNHOFER INSTITUTIONS AT BIOTECHNICA / LABVOLUTION

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

www.ipa.fraunhofer.de

Hall 20, Booth A45

THE FRAUNHOFER EXHIBITS

Hall 20, Booth B02

CELL CULTURE

Fraunhofer IST

- 1 Lab in a bag
Cell cultivation in a hanging droplet

Fraunhofer IGB

- 14 3D tissue models as alternative to animal testing
- 15 Customized bioreactors and incubator systems for in vitro culture of human tissue

ENVIRONMENTAL PROTECTION

Fraunhofer IST

- 10 Water purification without adding chemicals

MATERIALS SCIENCE AND SURFACE FUNCTIONALIZATION

Fraunhofer IST

- 2 Plasma-Jet to coat 3D objects, e.g. scaffolds
- 3 Functionalized consumables
- 4 Atmospheric pressure plasma processes
- 5 Bioscaffolder: 3D printer, e.g. for bone replacement
- 9 Tribological coatings

Fraunhofer IPT

- 13 Nano- and micro-structured surfaces: Predifferentiated stem cells in large quantities

OTHER THEMES AND EXHIBITS

Fraunhofer Group for Life Sciences

- 16 Applied research for companies in the life sciences
Overview

PHOTO ACKNOWLEDGEMENTS

Title: *Fraunhofer IST*

- 1. *Fraunhofer IPT*
- 2. *Fraunhofer IGB*
- 3. *Fraunhofer IST*
- 4. *Fraunhofer IGB*
- 5. *Fraunhofer IST*