

CENTRE FOR BIOTECHNOLOGY AND BIOMEDICINE

UNIVERSITÄT LEIPZIG



Technology Platforms

Nine technology lines are available to meet even the most specific demands from neighbouring biotech companies and to take part in cooperative research:

- Multiparameter flow cytometry
- Life Time Imaging
- Mass Spectrometry
- Nanobioengineering and Sensor Technology in Life Science
- NanoElectricBeam – Laser Technology in Life Sciences
- Peptide Synthesis
- Protein Structure Analysis and Rational Protein Design
- Proteomics
- Recombinant protein production



Technology Transfer in Life Science

Transfer activities are accompanied and supported by a transfer representative. To accelerate and optimize technology transfer process this department offers the following services:

- Handling of collaboration requests from industry
- Initiation of new collaborative R&D projects with research groups from the Leipzig University and other research institutions
- Identification and assessment of transferable knowledge and technologies
- Implementation of new transfer projects
- Technology marketing
- Intellectual property information
- Formulating business strategies to commercialize new products and giving support in implementing these strategies
- Identifying start-up projects in cooperation with the entrepreneurship-initiative SMILE

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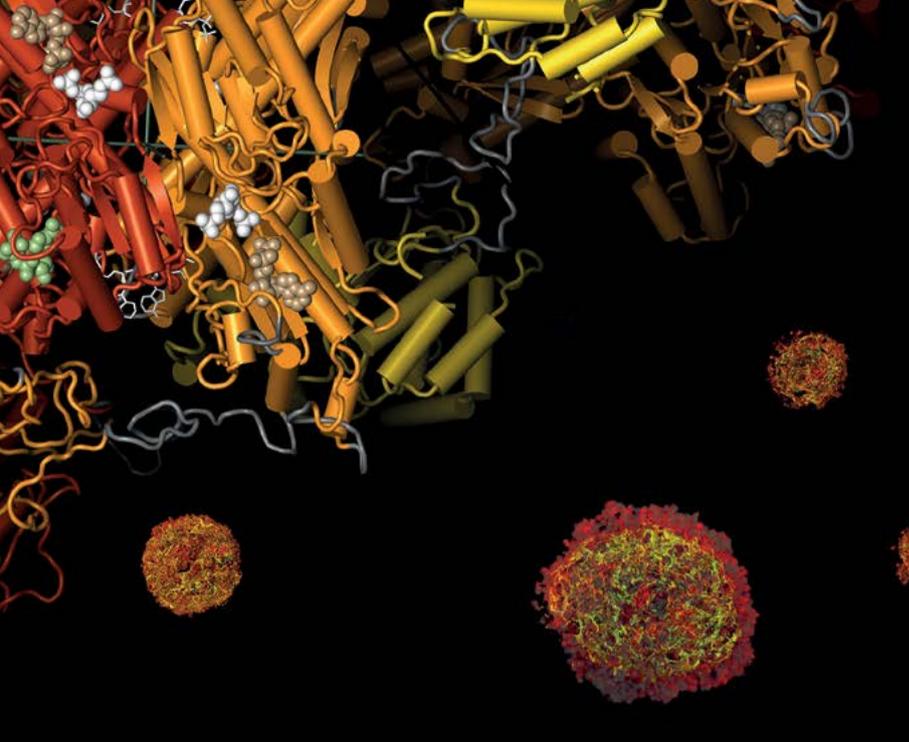
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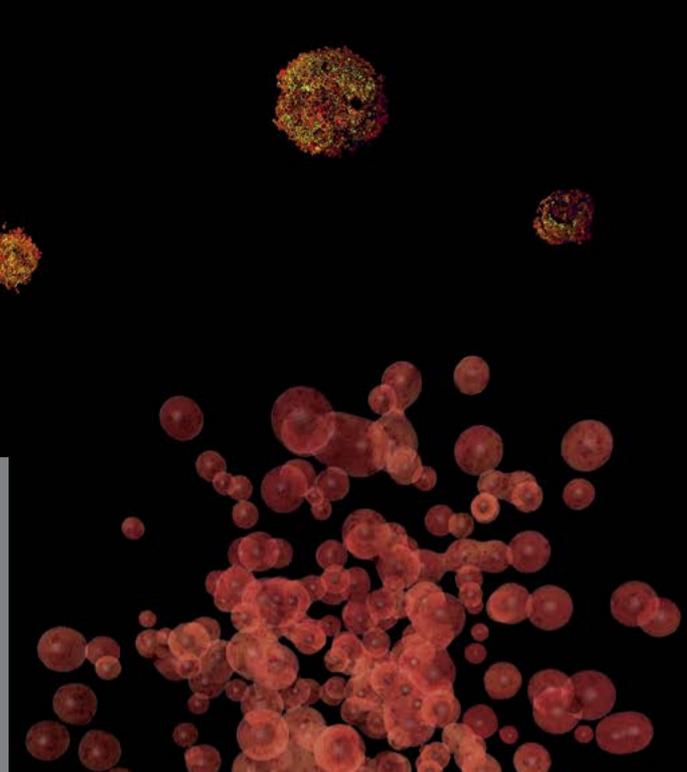


Facts

- Established in 2003
- Scientists from six different faculties – medical and non – of Leipzig University

“The Centre for Biotechnology and Biomedicine at Leipzig University is an essential element in the forward-looking initiative for a dynamic biotechnology landscape in the State of Saxony.”

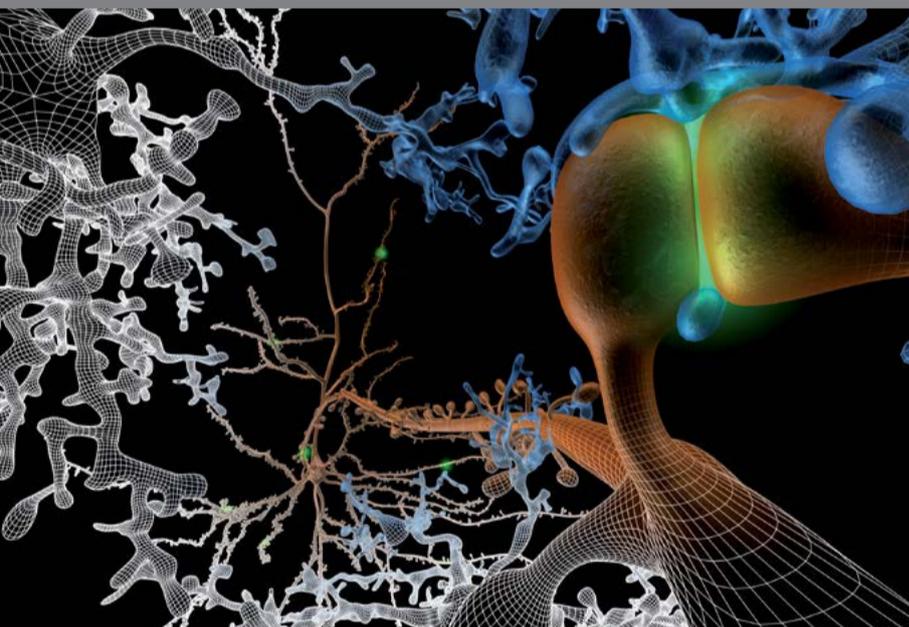
Prof. Dr. Andrea A. Robitzki
Director of the Centre for Biotechnology and Biomedicine



Support for young researchers

The Centre is committed to promote promising young researchers. They can work in independent junior research groups where they are trained and educated in cutting-edge technologies and methods for industrial research and scientific excellence.

*Picture below:
Synapse and astrocytes in the central nervous system,
3D graphic by Effigos AG, a Centre's spin-off*

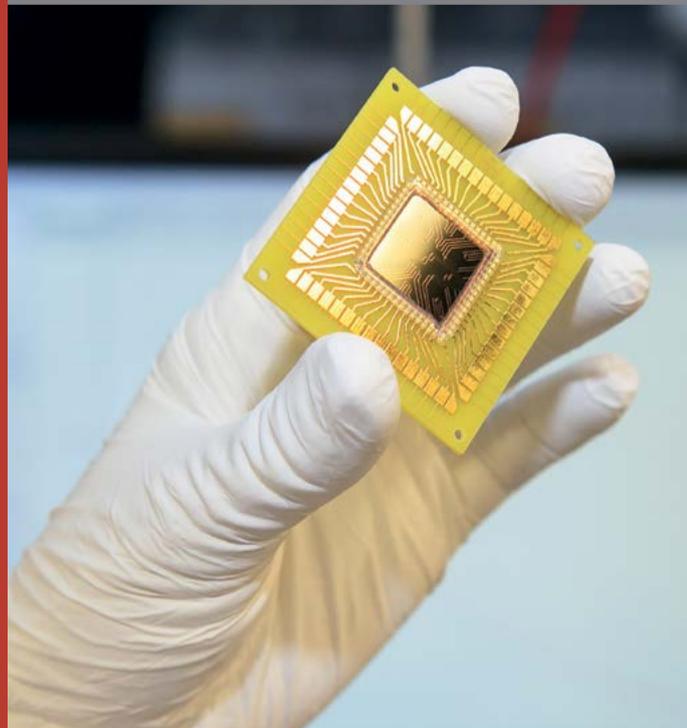


Science and business under the same roof

The above slogan sums it up: the Centre for Biotechnology and Biomedicine has been an incubator for a number of spin-offs. The first was formed in 2004, when the c-LEcta GmbH that operates in the field of industrial biotechnology was established.

The Centre also stands in support of biotechnology companies and identifies possible cooperations in the form of contract research and other scientific services. One department focuses on assisting researches with how to best exploit their findings, either by turning these findings into marketable products or by taking them even further into biotechnology spin-offs.

*Picture below:
Microelectrode array for bio-electronic
high-throughput screening systems*



Future Therapies and Diagnostics

Active Substances and Cells as Products and Instruments

Research, development and validation of tools and technologies for high-throughput screening, diagnostics, and rational agent discovery:

- Integrative pharmacogenomic applications for the treatment of cardiovascular, neurodegenerative, oncological, endocrine, or metabolic diseases as well as infectious diseases
- New, intelligent nanostructures at the microstructure-cell and microstructure-membrane interface for diagnostics and therapy
- Novel systems biology approaches for in silico developing of cell, tissue, and molecular models – new predictive systems for diagnostics, therapy and active substance testing
- Bioactive, intelligent (micro)implants, and cell transplants for the repair, regeneration, and control of biological processes
- Genetic reprogramming of cells, cell lines, and stem cells for the treatment of inherited or acquired diseases