

OVERVIEW

The Center for Biotechnology and Biomedicine (BBZ) was established at the Universität Leipzig as one of two Bio-Innovation Centers in Saxony in context of the "Biotechnology Offensive in Saxony" of the Saxon State Government. A financial support of about €19 million is available for five years (2001-2005). The funds are made available from the University Scientific Program (HWP) and the European Regional Development Fund (EFRE). From 2006 the Center will be financed by the Universität Leipzig.

The BBZ is a central research institution of the Universität Leipzig. With the focus on key issues such as "Molecular Design" and "Medical Biotechnology", the university is aiming at bringing together the competence of existing research groups and six new professors and newly established junior research groups. Existing research groups will cooperate with other units of complementary research fields and also with non-university research groups from biomedicine and biotechnology. Additionally, there will be close cooperation between commercial and scientific institutions by integrating established and newly founded biotechnological enterprises. The services of an independent management office integrated into the university administration should guarantee an effective deployment of research funds.

OBJECTIVES

- Promoting research and development in the fields of biotechnology, biomedicine and in related disciplines
- Initiation of new study courses, further training, and the offer new types of service
- Promoting knowledge transfer into economically oriented sectors

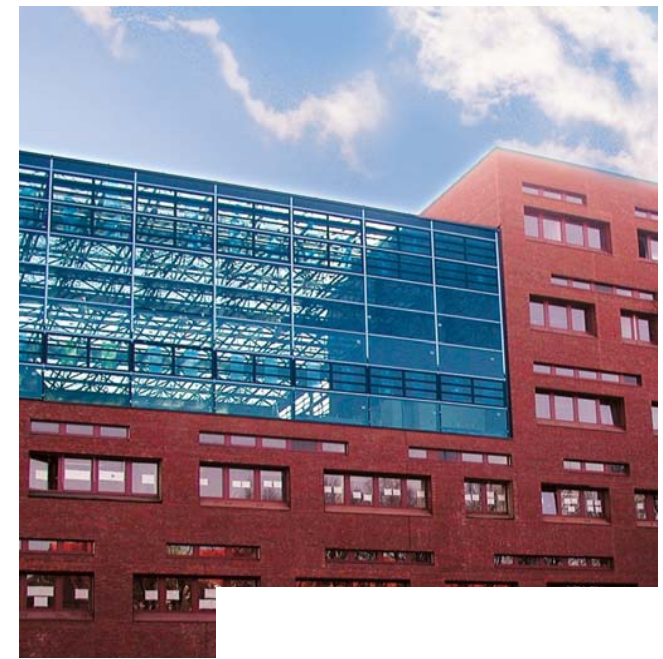
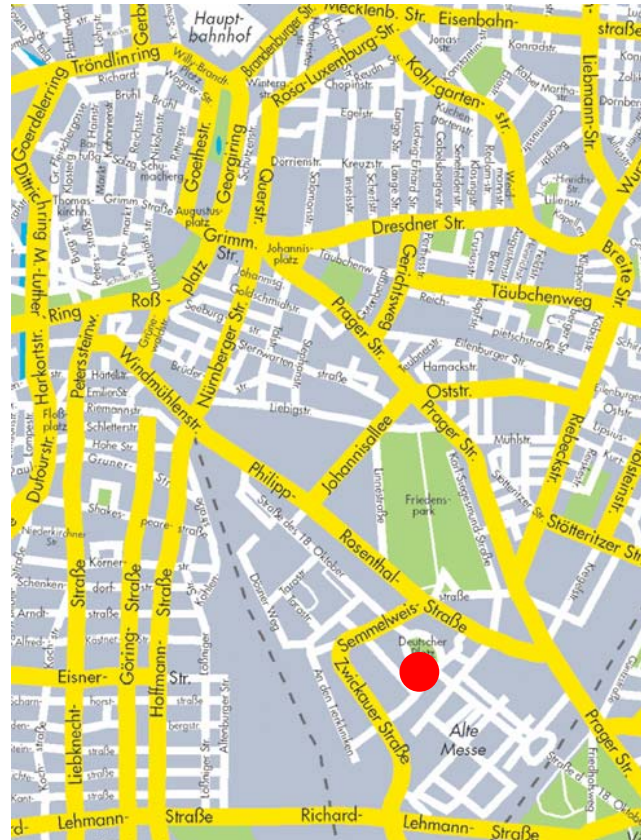
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MAP



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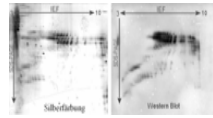


UNIVERSITÄT LEIPZIG



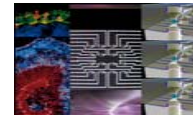
Professorship for Structural Analysis of Biopolymers

Head: Prof. Dr. Norbert Sträter
Focus: Determination of the 3D structure of proteins via biocrystallography



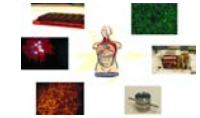
Professorship for Bioanalytics

Head: Prof. Dr. Ralf Hoffmann
Focus: Characterization of posttranslationally modified proteins



Professorship for Molecular biological-biochemical Processing

Head: Prof. Dr. Andrea Robitzki
Focus: Research and development of cell and tissue based biosensors at the interface of microsystem-sensor system technology and tissue engineering

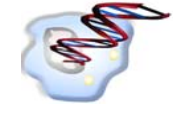


Professorship for Cell Techniques and Applied Stem Cell Biology

Head: Prof. Dr. Augustinus Bader
Focus: Tissue Engineering and Regenerative Medicine: Bioartificial liver, engineered vessels and heart valves, bone and cartilage engineering, bioartificial skin, tissue regeneration and pharmacology, experimental surgery



Professorship for Molecular Pathogenesis

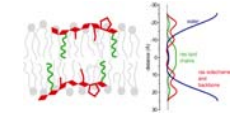


Professorship for Molecular Cell Therapy



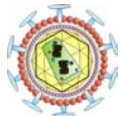
Junior Research Group Protein-Ligand Interaction by Ion Cyclotron Resonance Mass Spectrometry

Head: Dr. Andrea Sinz
Focus: Characterization of protein-protein interactions using modern mass spectrometric techniques



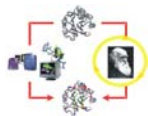
Junior Research Group Solid-state NMR Studies of the Structure of Membrane-associated Proteins

Head: Dr. Daniel Huster
Focus: Development and application of NMR methods for the investigation of the structure and dynamics of membrane binding peptides and proteins



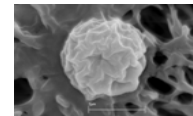
Junior Research Group Applied Molecular Evolution

Head: Dr. Susanne Brakmann
Focus: Functional Optimization of Nucleic acid Polymerases and Exonucleases using Directed Molecular Evolution



Junior Research Group Protein Engineering

Head: Dr. Thomas Greiner-Stöfle
Focus: Application and development of methods for rational design and *in vitro* evolution of proteins



Junior Research Group Molecular Medicine of Infectious Diseases

Head: PD Dr. Reinhard Straubinger
Focus: *In vitro*- and *in vivo* investigations designed to characterize mechanisms of persistent infection of the causative agent of Lyme borreliosis, *Borrelia burgdorferi*



Junior Research Group Molecular Diagnostics - Microarray Techniques

Head: Dr. Peter Ahnert
Focus: Investigation of the interindividual genetic diversity of humans in regard to etiology and pathogenesis of common complex diseases

