1. University and Institution

Competence Center Molcular Medicine

Area of Resaerch

Membrane proteins play a crucial role in cellular and physiological processes. They are essential mediators of cargo and information transfer between cells, between intracellular compartments and between organ systems. Functionally intact membrane proteins are vital to health and specific defects therein are associated with many known human diseases. Membrane proteins are the targets of a large number of pharmacologically and toxicologically active substances and are responsible, in part, for their uptake, metabolism, and clearance. Our overall goal is to identify key components of membrane-derived signal transduction pathways, to investigate their functions in the laboratory and, finally, to apply this knowledge to patient care.

Members

45

Contact

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2. Core Competences

Molecular Biology, Biochemistry, Proteomics, Physiology, Pharmacology, Oncology, Transplantation, Therapeutic and diagnostic agents, Molecular and Cell Biology, Stem cell Biology, Virology, Toxicology, Neurophysiology, Allergies, Tumour Biology, Chemical Biology, Bioinformatics, Immunology, Epigenetic,

Indication fields

Alzheimer Disease, ZNS, Cardiovascular diseases, Liver diseases, Parkinson disease, Multiple sclerosis, Prostate cancer, Hepatitis B and C, Immune mediated diseases, HIV, lung cancer, brain cancer, Trauma, Sepsis, Ischemia, Botulism, Tetanus, gastrointestinal oncology

3. Cooperations offered and requested

Catchwords

Molecular Medicine
Transport processes
Signal transduction
Membrane proteins

Kind of cooperation

Research and Development
Information- and Training-events

Amount and date for cooperation

Mutable