

HEALTH – Institute for Biomedicine and Health Sciences

Translating medical necessity into technical reality





Facts & Figures

Successful medical research strongly depends on interdisciplinary collaboration to bring new ideas to market. We work in a close strategic alliance with the Medical University of Graz. Our director, Prof. Thomas Pieber, MD, is also Chair of the Department of Internal Medicine and Chair of the Division of Endocrinology and Diabetology at the Medical University of Graz. Our team consists of over 60 technical and scientific experts. We work closely with more than 100 medically oriented specialists from the Medical University of Graz. Together, we translate ideas and technologies from medicine, pharmaceutical science and health services research into marketable products and services.

HEALTH offers applied research with the highest level of academic excellence. Following strategic objectives, HEALTH is active not only in applied research, but also in selected areas of basic research. We ensure a steady improvement in scientific excellence through our involvement in carefully selected basic research projects. Basic research projects are only carried out in cooperation with well-renowned researchers and results are regularly published in high ranked top journals.



Our Research Services

Our scientific expertise in the fields of medicine, pharmaceutical sciences, biotechnology and health economics is grouped into the following customer-oriented areas:

■ Clinical and Preclinical Research

HEALTH acts as a dedicated boutique CRO (contract research organization) for research projects and drug development programs. We support your clinical and preclinical activities in the fields of diabetes, dermatology and metabolic research: Pharmacokinetic, Pharmacodynamic & Bioequivalence Studies

- ▶ Bioanalysis & Pharmaceutical Analysis
- ▶ Metabolomics & Biomarker Research
- ▶ Data Management & Biostatistics

More Information:

www.openflowmicroperfusion.com

<https://croservices.joanneum.at>

<https://metabolomics.joanneum.at>

»Innovative ideas, products & solutions from HEALTH demonstrably contribute to an improved quality of life for people with medical needs.«



Prof. Thomas Pieber, MD
Director



Dr Franz Feichtner
Director

■ **Medical Sensors**

We focus on the application of various sensor technologies for measurements in a clinical setting. We develop new optical and electrochemical sensor-based measurement methods and systems starting from ideas to prototypes that can be used in a clinical evaluation.

■ **Clinical Decision Support**

We develop and study intelligent software systems to provide safe and evidence-based support for complex clinical processes. We aim to enable professional medical decision-making and adequate patient care by providing modern ICT solutions directly at the point of care. We develop software as a medical device from the idea to market readiness and take on the regulatory liability as manufacturer or as the authorized representative by the EU.

Infrastructure

High resolution mass spectrometry

- Q-Exactive coupled to UHPLC (Thermo Scientific)
- LTQ Orbitrap XL coupled to HPLC (Thermo Scientific)
- Exactive coupled to HPLC (Thermo Scientific)

Triple quadrupol mass spectrometry

- Quantum TSQ MS/MS coupled to HPLC (Thermo Scientific)
- GC Triple Quad MS/MS (Agilent)
- GC/MS (Thermo Scientific)

Robotic Liquid Handling Workstation

- Hamilton Microlab Starline System, based on 96 well-plate format

UHPLC coupled to DAD

- High sensitive Agilent 1290 UHPLC System

Standard immunochemical assays

Quality

- GLP certified bioanalytical laboratory
- Certified according to EN ISO 13485:2012

Publication-Highlights

Nature Medicine, The Lancet, Nature Neuroscience, Nature Cell Biology, Molecular Systems Biology, Cell Metabolism, Molecular Cell, Autophagy, Annals of Internal Medicine, Gastroenterology, Journal of Internal Medicine, Diabetologia, Scientific Reports, Diabetes, Diabetes Care, Cell Reports, Obesity and Metabolism, Biosensors & Bioelectronics, Analytical Chemistry

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