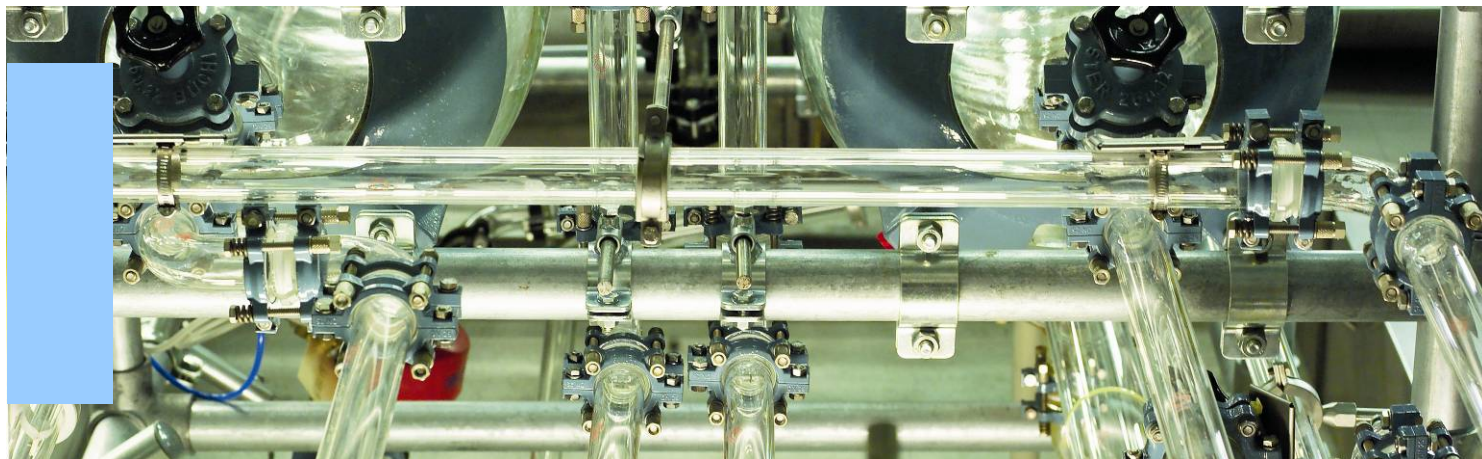
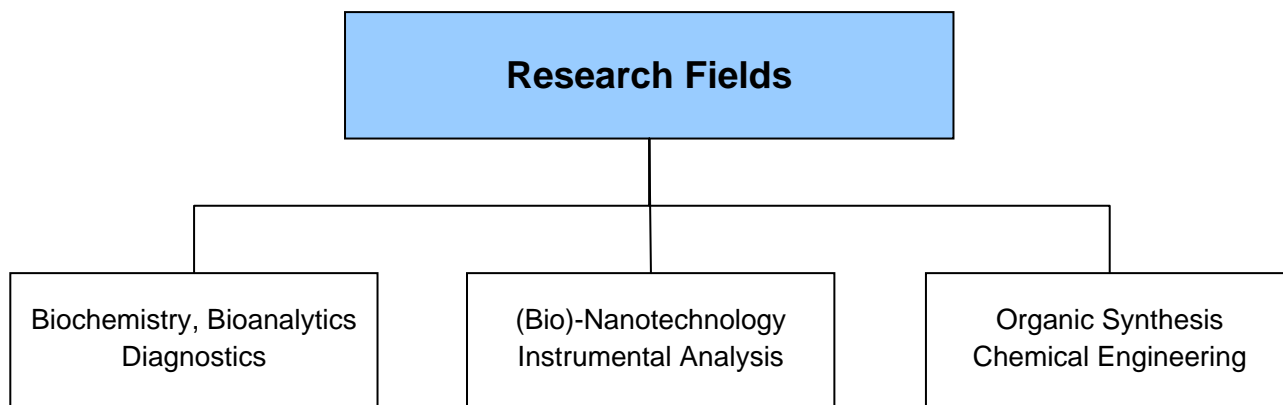


Institute for Chemistry and Bioanalytics (ICB)



The **Institute for Chemistry and Bioanalytics** offers a high level of expertise, professional project management and is a reliable and attractive partner for collaboration in the Life Sciences field. We cooperate with regional and international partners to guarantee an education of practical relevance. Our team-oriented organisation is based to a large extent on independent research groups with high individual responsibility. The industry experience of our staff results not only in innovative research, but is also integrated in the teaching program.



Competencies of the ICB

<p>Biochemistry, Bioanalytics and Diagnostics</p> <p>Biosensors, Immunoanalytics, Enzyme Analytics, Gene Reporter-Based Cellular Assays, Proteomics, Protein Biochemistry, Molecular Biology</p> <p><i>Prof. Dr. Daniel Gygax Prof. Dr. Georg Lipps Dr. Elizaveta Fasler</i></p>	<p>Molecular Diagnostics and Preclinical Development of Pharmaceuticals</p> <p>PCR, Real-time PCR, Analysis of Genetic Mutations, Immunoassays, Cellular and Enzyme-Based Assay Development for HTS, Systems for ADME/Tox</p> <p><i>Prof. Dr. Eric Kübler Prof. Dr. Hugo Albrecht</i></p>
<p>(Bio)-Nanotechnology</p> <p>Surface Analysis, Microscopy, Spectroscopy, Coatings and Functionalisation, Imaging, Bio-Sensors</p> <p><i>Prof. Dr. Uwe Pieves Prof. Dr. Patrick Shahgaldian, Dr. Amina Wirth</i></p>	<p>Instrumental Analytics</p> <p>Pharmaceutical Analytics, Analysis of Residues, Bioanalytics, Analysis of Food Ingredients, Analysis of Heavy Metals, Structure Determination</p> <p><i>Prof. Dr. Götz Schlotterbeck</i></p>
<p>Molecular Recognition Organic and Biocatalysis</p> <p>Enantioselective Synthesis, Carbohydrate Chemistry, Enzymatic Synthesis, Functionalisation of Surfaces</p> <p><i>Prof. Dr. Gerhard Grundler Dr. Christelle Jablonski</i></p>	<p>Organic and Organometallic Synthesis</p> <p>Organic Synthesis in mg/g Scale, Organometallic Chemistry and Catalysis, Process Development and Feasibility Studies</p> <p><i>Prof. Dr. Marianne Hürzeler</i></p>
<p>Synthesis / Sustainable Development</p> <p>Realisation and Optimisation of Organic Syntheses, Sustainability Assessment of Production Processes, Conception</p> <p><i>Prof. Dr. Beat Zehnder</i></p>	<p>Chemical Engineering</p> <p>Microreaction Technology, Process Development & Optimisation, Downstream Processing, Thermal Process Reliability</p> <p><i>Prof. Dr. Wolfgang Riedl</i></p>

ICB Facilities

<ul style="list-style-type: none"> • Real Time PCR • Biacore, Bioanalyser, FortéBio • FLIPR-HTS, Microarrays • Special Microscopy (Scanning Electron Microscope with Energy Dispersive X-ray, Confocal Laser Scanning Microscope) • Micro-Cantilever Arrays • ToFSIMS Surface Analysis • DNA Array Technology • IR Imaging, AFM 	<ul style="list-style-type: none"> • X-ray Microtomography • Spectroscopy and Chromatography (NMR, FT-IR, HPLC-MS-MS Coupling, Maldi TOF) • Trace Analysis (AAS, IPC-OES) • Microwave Synthesis • Microreaction Technology • Process Technology • Bioreactors • Flow Cytometry
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