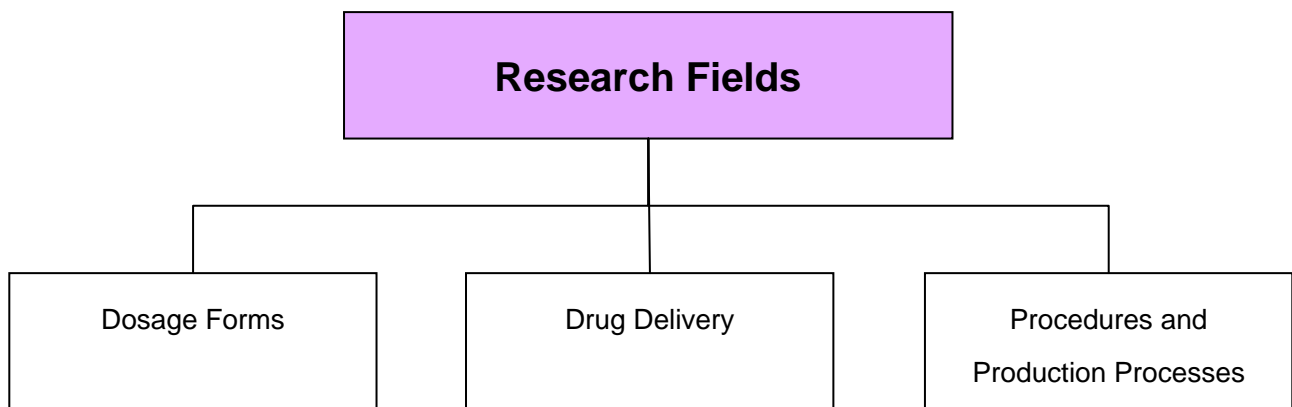


Institute for Pharma Technology (IPT)



Activities at the **Institute for Pharma Technology** focus mainly on pharmaceutical drug research. This involves working on research projects and new technologies with our partners in the fields of formulation development, quality evaluation for different types of medicine, the development and optimisation of manufacturing processes and procedures and quality management, as well as drug delivery and drug targeting. We also work on application-oriented issues concerning time, quality and cost targets of the pharmaceutical industry. The industry experience of our staff results not only in innovative research, but is also integrated in the teaching program.



Competencies of the IPT

<p>Intestinal and (Trans)Dermal Active Agent Absorption and Drug Delivery</p> <p>Vehicles for Active Agents, Multi-Phase Formulations, Time-controlled Administration, Mathematical Modelling, in vitro Absorption Models</p> <p><i>Prof. Dr. Georgios Imanidis</i></p>	<p>Rational Development of Medical Formulations and Dosage Forms</p> <p>Poorly Water-Soluble Active Ingredients, Lipid-Containing, Self-Emulsifying Systems, Solid Dosage Forms, Quality by Design, Process Analytical Technology</p> <p><i>Prof. Dr. Martin Kuentz</i></p>
<p>Drug Targeting and Pharmacokinetics</p> <p>Blood-Brain-Barrier, Biodistribution, Tumor and Organ Targeting, Immunoliposomes, Cell Culture Models, Simulation</p> <p><i>Prof. Dr. Hildegard Spahn</i></p>	<p>Process Development, Production Planning and Project Management</p> <p>Dry and Wet Milling, Formulation and Dispersion Technology, Process Development</p> <p><i>Prof. Dr. Eng. Berndt Joost</i></p>

IPT Facilities

<ul style="list-style-type: none"> • Granulation • Compaction • Particle Characterisation • Dry and Wet Milling 	<ul style="list-style-type: none"> • Clean Room • Cell and Tissue Culture • Confocal Laser Scanning Microscopy • Release and Permeation Measurement
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