

Module title		Abbreviation
Principles of drug design		o8-MCM3-132-m01
Module coordinator		Module offered by
lecturers Pharmazeutische Chemie (Pharmaceutical Chemistry)		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
German contents available but not translated yet.		
Grundlagen: Drug Targets (Art und Klassifizierung), Targetvalidierung, Wirkmechanismen, Protein-Ligand-WW, Lead-finding; Lead-optimization. Experimentelle Methoden: Bioassays, HTS, KombiChem, Naturstoffe. Theoretische Methoden: Molecular Modelling, Strukturbasiertes Wirkstoffdesign, Pharmakophormodelle, Docking, Virtuelles Screening, Simulationsmethoden, De-novo-Design. Ligandbasiertes Wirkstoffdesign. QSAR. Vorhersagen pharmakokinetischer und toxikologischer Größen (ADME). Fallbeispiele, Prodrug-Strategien, Bioisosterie, SAR.		
Intended learning outcomes		
The student masters theoretical and experimental methods and aspects of drug design.		
Courses (type, number of weekly contact hours, language – if other than German)		
S + Ü (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
presentation with discussion (approx. 30 minutes) Language of assessment: German or English		
Allocation of places		
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Additional information		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Chemistry (2013) Master's degree (1 major) Chemistry (2014)		