

Module title		Abbreviation
Drug design		o8-MCM3-152-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 (2) + Ü (1) Module taught in: German or English		
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 and/or English		
Allocation of places		
20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.		
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) Biochemistry (2015) Master's degree (1 major) Chemistry (2016) Master's degree (1 major) Biochemistry (2017) Master's degree (1 major) Chemistry (2018)		