

<b>Modulbezeichnung:</b> Drug Discovery - Lab (DD-Lab) (Drug Discovery - Lab)	<b>10 ECTS</b>
Modulverantwortliche/r: Monika Pischetsrieder	
Lehrende: Petra Imhof, Jutta Eichler, Simon Hammann, Peter Gmeiner	
Startsemester: SS 2021	Dauer: 1 Semester
Präsenzzeit: 225 Std.	Eigenstudium: 75 Std.
	Turnus: jährlich (SS)
	Sprache: Englisch

### Lehrveranstaltungen:

- Attendance at lab course is compulsory!
  - Attendance at safety instructions is compulsory!
  - Attendance in winter or summer term possible!
  - A valid laboratory insurance is mandatory for participation in the lab course - see: [www.laborversicherung.de](http://www.laborversicherung.de)
- Drug Discovery - LAB (SS 2021, Praktikum, Jutta Eichler et al.)

### Inhalt:

3 independent practical courses focusing on biomolecular simulations (block, 5 SWS), Pharmacopoeia-based drug analysis (block, 5 SWS) and instrumental analytical techniques (block, 5 SWS)

### Lernziele und Kompetenzen:

The students are able

- to understand the basic and advanced principles of Pharmacopoeia-based drug analysis, instrumental and bioanalytics as well as computer chemistry-based applications in the field of modern drug research
- to utilize modern instrumental analytical techniques for characterisation of samples and quantification of target analytes
- to apply modern simulation techniques for the modeling of biomolecules
- to interpret and to critically summarize experimental results in written form (lab report)

### Literatur:

Manuscripts are available on StudON

### Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

#### [1] Molecular Science (Master of Science): ab 1. Semester

(Po-Vers. 2020w | NatFak | Molecular Science (Master of Science) | MolSc Module LIFE | Studienrichtung Drug Discovery | Drug Discovery - Lab)

### Studien-/Prüfungsleistungen:

Drug Discovery - Lab (Prüfungsnummer: 30681)

Prüfungsleistung, Praktikumsleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Graded Lab Protocols of 10 - 20 pages (where applicable plus raw data documentation CD-ROM/DVD or file upload -details via StudOn)mentation)

Prüfungssprache: Englisch

Erstablingung: SS 2021, 1. Wdh.: SS 2022

1. Prüfer: Monika Pischetsrieder

### Organisatorisches:

Please note:

- Lab course (DD-Lab) is held as an in-class-course in one of the participating research groups!
- Lab course (DD-Lab) is held only in summer term!
- Students have to register for the module (check registration periods on MeinCampus)!
- Registration/further information via StudOn!

**Bemerkungen:**

Module compatibility:

- Drug Discovery - Lab (DD-Lab) is within the **Core module "Drug Discovery"** in M. Sc. Molecular **Life Science!**