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**Modulbezeichnung:** Drug Discovery - Lab (DD-Lab) 10 ECTS  
(Drug Discovery - Lab)

Modulverantwortliche/r: Monika Pischetsrieder

Lehrende: Peter Gmeiner, Simon Hammann, Jutta Eichler, Petra Imhof

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Startsemester: SS 2022

Dauer: 1 Semester

Turnus: jährlich (SS)

Präsenzzeit: 225 Std.

Eigenstudium: 75 Std.

Sprache: Englisch

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### 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 2022, Praktikum, N.N.)

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### 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

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### 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)

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### 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 2022, 1. Wdh.: SS 2023

1. Prüfer: Monika Pischetsrieder

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### 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!**