

**Modulbezeichnung:** Research Lab - Molecular Nanoscience (Nano-R-Lab) 15 ECTS  
(Research Lab - Molecular Nanoscience)

Modulverantwortliche/r: Rainer Fink

Lehrende: Dirk Guldi, Henry Dube, Bernd Meyer, Rainer Fink, Franziska Gröhn, Andreas Hirsch,  
Dirk Zahn, u.a., Julien Bachmann, Karl Mandel

Startsemester: WS 2020/2021      Dauer: 1 Semester      Turnus: halbjährlich (WS+SS)  
Präsenzzeit: 345 Std.      Eigenstudium: 105 Std.      Sprache: Englisch

### Lehrveranstaltungen:

- Research lab project (23 SWS) fulltime in one of the working groups in the research field of Molecular Nanoscience
  - Attendance at lab course is compulsory!
  - Attendance at safety instructions is compulsory!
  - A valid laboratory insurance is mandatory for participation in the lab course - see: [www.laborversicherung.de](http://www.laborversicherung.de)
- Research Module - Molecular Nanoscience (WS 2020/2021, Praktikum, 23 SWS, Anwesenheitspflicht, Rainer Fink et al.)

### Inhalt:

research lab project (23 SWS) fulltime in one of the research groups of Molecular Nanoscience

### Lernziele und Kompetenzen:

Students ...

- are provided with the up-to-date practical and operative know-how suitable for future scientific and/or applied work in research institutes and nanoscience-labs
- get an advanced theoretical background and an overview of emerging trends in nano sciences
- look at living systems through the lens of basic chemical principles
- are prepared to work in interdisciplinary environment and participate in national and international development of forefront fields.

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

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

#### [1] Molecular Science (Master of Science): 3. Semester

(Po-Vers. 2020w | NatFak | Molecular Science (Master of Science) | Research module | Research Lab - Molecular Nanoscience)

### Studien-/Prüfungsleistungen:

Research Lab - Molecular Nanoscience (Prüfungsnummer: 30741)

Prüfungsleistung, Praktikumsleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Lab(PL): graded lab protocol of about 25 pages plus one raw data

Prüfungssprache: Englisch

Erstablingung: WS 2020/2021, 1. Wdh.: SS 2021

1. Prüfer: Rainer Fink

### Organisatorisches:

- Students have to register for the module (check registration periods)!
- Attendance in lab course and safety instructions are compulsory!
- Lab course is held as an in-class-course
- Lab course can be chosen in winter or summer term
- Time and place by appointment (in one of the involved working groups of Mol. Nano Sc.), please contact the supervisor directly

### Bemerkungen:

Please note: This module will be offered for the first time from winter semester 2021/22 onwards in accordance with the examination regulations PO 2020w!