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**Modulbezeichnung:** Lab Course Bioorganic & Bioinorganic Chemistry (BioIOC-Lab) 5 ECTS  
 (Lab Course Bioorganic & Bioinorganic Chemistry)

Modulverantwortliche/r: Nicolai Burzlaff

Lehrende: Norbert Jux, Andriy Mokhir, Petra Imhof, Nicolai Burzlaff, Carola Kryschi

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Startsemester: WS 2021/2022      Dauer: 1 Semester      Turnus: halbjährlich (WS+SS)  
 Präsenzzeit: 105 Std.      Eigenstudium: 45 Std.      Sprache: Englisch

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#### Lehrveranstaltungen:

- Attendance at lab course is compulsory!
- Attendance at safety instructions is compulsory!

Bio-Organic & Bio-Inorganic LAB (WS 2021/2022, Praktikum, 7 SWS, Nicolai Burzlaff et al.)

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#### Inhalt:

The students

- deepen their knowledge in special topics of bioorganic and bioinorganic chemistry and nanomedicine that are in the research focus of the involved research groups of the department depending on their own choice
- perform practical studies and small research projects regarding topics of the preparative, mechanistic or more biological bioorganic and bioinorganic chemistry and nanomedicine in an advanced level

#### Lernziele und Kompetenzen:

The students

- can characterise and evaluate bioinorganic models
  - manage the preparation of bioorganic compounds and bioinorganic models as well as synthesis of functionalized nanoparticles, their characterization as well as their application in mechanistic studies
  - carry out bioorganic and bioinorganic research projects largely independently using a wide range of bioorganic and bioinorganic theories and are able to reflect upon the gained results
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#### Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:

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

[1] **Chemistry (Master of Science): ab 1. Semester**

(Po-Vers. 2020w | NatFak | Chemistry (Master of Science) | Ergänzende Wahlpflichtmodule | Advances in Bio-Organic and Bio-Inorganic Chemistry | Bio-Organic and Bio-Inorganic Chemistry - Lab)

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

(Po-Vers. 2020w | NatFak | Molecular Science (Master of Science) | Compulsory elective module | Advances in Bio-Organic and Bio-Inorganic Chemistry | Bio-Organic and Bio-Inorganic Chemistry - Lab)

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#### Studien-/Prüfungsleistungen:

Bio-Organic and Bio-Inorganic Chemistry - Lab (Prüfungsnummer: 65141)

Prüfungsleistung, Praktikumsleistung

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Graded Lab Protocol of 30 - 50 pages (plus raw data documentation)

Prüfungssprache: Englisch

Erstablingung: WS 2021/2022, 1. Wdh.: keine Angabe

1. Prüfer: Bio-Organic and -Inorganic Chem-1 (N70005)

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#### Organisatorisches:

**Please note:**

- Students have to register for the module (check registration periods)!
- Lab course **Advances in Bioorganic and Bioinorganic Chemistry Laboratory (BioIOC-Lab)** is held as an in-class-course in one of the participating research groups!

- Registration/further information via StudOn!

**Bemerkungen:**

Module compatibility:

- Lab module within the **Compulsory elective module "Advances in Bioorganic and Bioinorganic Chemistry"** in M.Sc. Chemistry or M. Sc. Molecular Science (20 ECTS in total)