



Master's thesis in Pharmaceutical Biology

At the Chair of Pharmaceutical Biology, we explore new drug carriers and biomaterials that use principles found in nature to better treat bacterial infections. We are also working on natural product synthesis, communication between bacteria and cells to find new therapeutic approaches for inflammatory diseases.

www.pharmbio.nat.fau.de

We are looking for motivated students who would like to develop an innovative project in the field of antimicrobial therapy as Master's students.

The Master's project will consist of the following topics:

- literature research on the chemical modification of oligosaccharides and fluorophores with distinct excitation/emission wavelengths
- preparation and purification of a small library of fluorescently labelled oligosaccharides
- analysis of compounds using liquid chromatography coupled mass spectrometry
- evaluation of interaction of fluorescent compounds with bacteria
- regular presentation of research progress in our group seminar

Requirements

We are looking for a talented candidate with an above average degree in Chemistry, Molecular Sciences, Materials Science or similar subject.

Previous experience with chemical modification of small molecules or chemical synthesis in general is highly desirable.

Fluent written and oral communication in English is essential, additional knowledge of German is an advantage. Good knowledge of MS Office (Power Point, Excel, Word) is desirable. Independent working style, a proactive attitude towards new methods and scientific curiosity are essential requirements for this position.

For additional information about this project, please contact Menka Drost (menka.drost@fau.de).

Please send your application documents with a letter of motivation, curriculum vitae and copies of university certificates to Prof Dr Gregor Fuhrmann (gregor.fuhrmann@fau.de)

We look forward to receiving your applications by 9 October 2023