



## **Master's thesis in Pharmaceutical Biology on plant extracellular vesicles (EV) WS24/25**

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 products from medicinal plants, their synthesis or their use for new therapeutic approaches.

[www.pharmbio.nat.fau.de](http://www.pharmbio.nat.fau.de)

**We are looking for motivated students who would like to develop an innovative project in the field extracellular vesicles derived from plant cells as Master's students.**

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

- literature research on plant extracellular vesicles (EV)
- isolation and characterization of plant (EV) from in vitro cultivated pharmaceutical relevant plants
- analysis of EV by nano particle tracking analysis, western blot and liquid chromatography coupled mass spectrometry etc.
- evaluation of bioactivity (human cancer cells and/ or bacteria)
- regular presentation of research progress in our group seminar

### **Requirements**

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

Previous experience with plant cell culture and/ or human cell culture 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 Jennifer Munkert ([jennifer.munkert@fau.de](mailto:jennifer.munkert@fau.de)).

**Please send your application documents with a letter of motivation, curriculum vitae and copies of university certificates to Dr. Jennifer Munkert ([jennifer.munkert@fau.de](mailto:jennifer.munkert@fau.de)).and Prof. Gregor Fuhrmann ([gregor.fuhrmann@fau.de](mailto:gregor.fuhrmann@fau.de))**

**We look forward to receiving your applications by 1. July 2024**