



Integrated DFG Research Training Group CRC 1278 PolyTarget

The goal of the CRC PolyTarget is the development of new strategies for the treatment of infection-triggered inflammatory states, centered on a rational design of tailor-made nanoparticulate drug carriers. Pharmacologically active nanoparticles based on functional synthetic polymers and (modified) biopolymers will be utilized and characterized to address the fundamental questions of targeted nanomedicine from the bottom up. Based on the establishment of polymer libraries and a detailed molecular and morphological characterization of the nanoparticles, structure-property relationships will be studied to optimize the nanoparticles with respect to their biological and pharmaceutical function.

The main task of the integrated Research Training Group (RTG) is to promote the scientific expertise of the doctoral candidates. The group aims to broaden the training of doctoral candidates at the university level by providing the opportunity for candidates to participate in the already existing PhD programs of related training groups in Jena. A visiting scientist program and short-term scholarships offers additional qualification improvement possibilities.

Scientific topics

Drug carrier, Polymer chemistry, Nanomedicine, Inflammation

Participating Faculty of FSU Jena

Faculty of Chemistry and Earth Sciences, Faculty of Biological Sciences, Faculty of Medicine, Faculty of Physics and Astronomy, Jena Center for Soft Matter (JCSM)

Cooperation partners

Center for Sepsis Control and Care (CSCC), Jena University Hospital (UKJ), Leibniz Institute of Photonic Technology Jena (IPHT), Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute (HKI), Leibniz Institute on Aging – Fritz Lipmann Institute (FLI)

Preferred language: English

Current number of doctoral candidates: 28

How can I become a doctoral candidate? What is the method of selection?

See current job offers on the website

Are there fixed dates to apply?

No – see the current announcements

Are there possibilities to be funded in this programme?

Doctoral candidates are funded by the DFG (employment contracts). Additionally, there are short and midterm scholarships funded.

Interesting for graduates of the following subjects:

Graduates with a master degree in chemistry, pharmacy, biotechnology, physics or related fields.

Prospective degree

Dr. rer. nat.

Contact

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