Job Advertisement

The interdisciplinary research project “High resolution fluorescence lifetime and infrared spectroscopic characterization of pathogenic retinal pigment epithelium cell organelles (HiResi4RPE)" funded by the German Research Foundation (DFG) will be conducted in the Experimental Ophthalmology Group at the Jena University Hospital (UKJ) in close collaboration with the Team BioPOLIM in the AG Heintzmann at the Institute of Physical Chemistry at the Friedrich Schiller University Jena (FSU) and in the Research Department of Microscopy at the Leibniz Institute of Photonic Technology. Within this project, the following part-time position (26 hrs/week) is offered in the Experimental Ophthalmology Group at the Jena University Hospital (UKJ) starting as soon as possible.

**PhD candidate (m/f/d)**

The position is initially limited to 36 months (3 years).

**Job description**

We are seeking a highly motivated and skilled person to join our team. Within this project HiResi4RPE, we aim at improving the understanding of age-related macular degeneration (AMD). A successful candidate for the here announced position in the Experimental Ophthalmology Group at the UKJ will conduct the following tasks:

- primary cell culture
- immune-histochemistry
- ELISA (Enzyme-linked Immunosorbent Assay)
- protein biochemistry (Western blot)
- two-photon microscopy, spectroscopy and fluorescence lifetime measurement
- Compare your results with complementary results obtained by our collaborators using high-resolution-fluorescence lifetime imaging microscopy (HRM-FLIM) and mid-IR photo-induced force microscopy (mid-IR PiFM, PiF-IR) within the project HiResi4RPE.

**Your field of activity includes:**

- Interdisciplinary research in the field of biophotonics, biophysics and molecular biology/medicine
- Presenting your results within the scientific community at conferences and via scientific publications

**Your qualification:**

- Master degree in the fields Biology, Biochemistry, Molecular Medicine or related field

**Desired knowledge and skills:**

- Cell culture techniques
- Immunohistochemistry
- Advanced microscopy techniques
- Good proficiency in using written and oral English language

**We offer:** A PhD position in a DFG project in the interdisciplinary team of the AG experimental ophthalmology in collaboration with partners in Jena and in the US.

**Salary:** Salary is in accordance with the regulations of the TV-L and your qualifications and experience.

**Further information:** If you have any questions, please contact Dr. Martin Hammer, email: Martin.Hammer@med.uni-jena.de

**Application:** Please apply online at [https://ukj.mana-hr.de/jobpostings/details/8956/basics](https://ukj.mana-hr.de/jobpostings/details/8956/basics)