

The Immunoanalytics Research Group *Tissue Control of Immunocytes* within the Helmholtz Zentrum München invites applications for

Ph.D. student position (m/f) starting as soon as possible
(biology; pharmacy or pharmaceutical sciences; biomedical sciences;
bioinformatics, or equivalents)

Description:

The immunology research group (Immunoanalytics-Tissue Control of Immunocytes, headed by **Prof. Dr. rer. nat. Elfriede Nöbner**) focuses on the characterization of immune cell moderations in the environment of solid tumors and the resulting consequences for immune cell function and the control of tumor growth and therapy response. The current project is part of a collaborative research project that develops novel, proprietary heat-inducible nanocarriers (thermosensitive liposomes, TSLs) for external targeting of small molecules to solid tumors (Kneidl et al, Int J Nanomedicine 2015). Objective of the project is the design of novel TSL formulations based on innovative drug molecules to investigate a new concept of targeted cancer therapy in combination with mild hyperthermia. The successful applicant will work in an interdisciplinary project team of a third-party funded consortium consisting of the Klinikum der Universität München, the biopharmaceutical company Thermosome GmbH and the Helmholtz Zentrum München. The PhD student candidate will be operative in the characterization of immunologic effects of selected immune adjuvants *in vitro*, immunohistology and molecular profiling of tissues from patients and animal tumor models (provided by the collaborative group of Prof. Lindner), and the characterization of immunological consequences of interactions between cells & nanocarriers.

What we are looking:

- Above average master degree or master equivalent in biology, pharmaceutical sciences or related sciences
- Solid knowledge in immunology and immunological methods is a prerequisite
- Prior experience in immunohistology and microscopic evaluation of immune-stained tissue sections is advantageous.
- A self-dependent, highly-motivated, pro-active, results-oriented and responsible working mode that is guided by your own internal drive and commitment to develop new ways and deliver results even beyond expectations.
- A structured, self-organized working mode to facilitate a team-oriented project-focused working environment.
- A fun, team-oriented person who loves to laugh and enjoys working in a dynamic, international, flexible and friendly work environment.
- Prior experience in working with small animals and the successful attendance of a course for performing animal experiments (Category B/C - FELASA) is advantageous, but not a prerequisite.

- Fluent English or German in writing and speaking in writing and speaking are not mandatory, but a plus.

What we are offering:

- A contract for a 3-year position in an outstanding environment with the possibility of working in a well-equipped and highly motivated interdisciplinary team. Remuneration and benefits are in accordance with the collective agreement for the public service (EG13 50% TV EntgO Bund). In addition, there is the possibility of granting an allowance amounting to 15% if the necessary conditions are fulfilled.
- Possibility to obtain a Ph.D. in a scientific subject at one of the leading German research universities, which may act as jump-start for either a subsequent academic or industry career.
- Possibility to collaborate with partners from academia and industry.
- Possibility to gain first experience in project management by handling and coordinating both subordinates (e.g., lab assistants and/or student helps) and colleagues on joint research projects.

About us:

Helmholtz Zentrum München is the German Research Center for Environmental Health. At the Helmholtz Zentrum München, you can contribute together with leading researchers to the investigation of the development, prevention and treatment of environmental diseases such as diabetes, chronic lung diseases, allergies and cancer. In order to further promote your professional development, we offer extensive and targeted research training and career programs. We support the reconciliation between work and private life with flexible working time models, occupational health management, day care facility for children, a childcare subsidy, Elder Care, as well as other counseling and support services.

Disabled persons will be preferentially considered in case of equal qualification. Presentation expenses cannot be refunded. Your application – preferably in electronic form as single PDF file including a motivation letter, CV, relevant certificates, and two letters of reference or the names and contact information of two referees – should be directed to:

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Feel free to contact for further information about the position.