

The Institute of Molecular Oncology, laboratory of Dr. Ramona Schulz-Heddergott, offers a

# PhD student position (f/m/d)

limited for 3 years, part-time (50%, 19,25h/week) | salary according to TV-L

## About us

The University Medical Center Göttingen is a tertiary care center and offers great development potential. Its 8,100 employees work in over 65 departments and facilities to provide top-quality patient care, excellent research and modern teaching. Göttingen, "City of Science", located near the center of Germany, the University Medical Center Göttingen is embedded in the city's attractive network of scientific research facilities.

## Our research focus:

The laboratory of Dr. Ramona Schulz-Heddergott studies the oncogenic impact of the tumoral chaperone system including their regulated oncogenes such as mutated p53 variants in colorectal cancer and pancreatic cancer, using methods of cell and molecular biology, histology including microscopy, genetic mouse models including organoid cultures and human sample analysis. One research focus is how mutated p53 variants are stabilized by the chaperone machinery, and vice versa how wildtype p53 regulates the chaperone system as tumor suppressor. Based on our bench-to-bedside interest (translational research) we test our in vitro findings in experimental cancer mouse models and in samples from human patients. Therefore, we

collaborate with other clinical research groups at the University Medical Center Göttingen (UMG).

#### Selected references:

- Schulz-Heddergott R et al, 2018. Therapeutic ablation of gain-of-function mutant p53 in colorectal cancer inhibits Stat3-mediated tumor growth and invasion. *Cancer Cell*. 34(2):298-314.
- Alexandrova EM, .. , Schulz-Heddergott et al. p53 loss-of-heterozygosity is a necessary prerequisite for mutant p53 stabilization and gain-of-function in vivo. *Cell Death Dis*. 2017
- Alexandrova EM, ... , Schulz R, ... and Moll UM. Improving survival by exploiting tumor dependence on stabilized mutant p53 for treatment. *Nature*. 2015 Jul 16;523(7560):352-6.
- Schulz R et al., 2012. Inhibiting the HSP90 chaperone destabilizes macrophage migration inhibitory factor and thereby inhibits breast tumor progression. *J Exp Med*. 13;209(2):275-89

#### Your qualifications:

The successful candidate will hold a M.Sc. degree with a strong background in oncology or related topics and experience in cell culture techniques, molecular biology and cell biology. The ideal candidate is proficient in or at least prepared to working with engineered mouse models. We are looking for an exceptionally motivated, pro-active and team-orientated candidate who excels in the challenge of being in a dynamic and very productive research team.

#### We offer:

We offer a PhD position with salary according to TV-L. The candidate will be working in an innovative, well-equipped and scientifically stimulating surrounding. It is possible to attend graduate PhD programs at University of Göttingen such as GGNB.

Please send your application including motivation letter, CV, publication list if available and references as a single PDF file via e-mail to [rschulz1@gwdg.de](mailto:rschulz1@gwdg.de).

Women are especially encouraged to apply. Applicants with disabilities and equal qualifications will be given preferential treatment.

We look forward to receiving your application by July 31st, 2019:

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Travel and application fees cannot be refunded or transferred.