

The laboratory for Cellular Oncology (Prof. Holger Bastians, PhD) seeks to appoint a

# Postdoctoral scientist or PhD student (f/m)

for a fully funded position within the research consortium  
SFB 1324

initially limited until 2021, available from January 1st, 2018  
(or earlier), full-time (Postdoc) or half-time (PhD student) |  
salary according to TV-L

## About us

The University Medical Center Göttingen is a tertiary care center and offers great development potential. Its 7,400 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.

## The project:

Our laboratory has a long-standing interest in the mechanisms of mitosis, chromosome segregation and chromosomal instability (CIN) in human cancer. Our recent work has shown that abnormal microtubule dynamics is key to chromosome missegregation and aneuploidy in human cancer cells (Stolz et al., *nature Cell Biology* 2010; Ertych et al., *Nature Cell Biology* 2014; Ertych et al., *PNAS* 2016). Moreover, we found that loss of Wnt signaling during mitosis causes abnormal microtubule dynamics leading to aneuploidy and CIN (Stolz et al., *EMBO Rep.* 2015).

As part of a newly established research consortium focusing on the functions and mechanisms of Wnt signaling (SFB 1324, together with the University of Heidelberg) we are now interested in unraveling the molecular function of Wnt signaling during mitosis required for proper chromosome segregation. In particular, we aim to focus on a novel Wnt pathways known as Wnt-mediated stabilization of proteins (Wnt/STOP; see: Stolz and Bastians, Cell Cycle 2015 and Acebron et al., Mol. Cell 2014) to identify Wnt-controlled regulators of mitosis and chromosome segregation. For this, we will use state-of-the-art cell biological and molecular biology techniques including live cell microscopy, CRISPR/Cas etc. The project will provide the opportunity for various collaborations within our Wnt research consortium and with other scientists (e.g. on proteomics approaches).

#### Requirements:

We are looking for an enthusiastic and highly qualified researcher with keen interest in cell biology and research experience in cell and molecular biology and biochemistry. For postdoc application an excellent PhD degree in cell/molecular biology with significant publications fitting to the research topic is expected. For PhD student candidates an excellent Master degree in biology, biochemistry, molecular medicine or related disciplines is required. Profound knowledge/experience in signal transduction pathways, cell cycle/mitosis regulation, genome stability and Wnt signaling would be desirable.

#### How to apply:

Applicants should send their full application including CV, publication list, a letter of motivation and the names of two references via email as a single pdf file to Prof. Holger Bastians, email: [holger.bastians@uni-goettingen.de](mailto:holger.bastians@uni-goettingen.de)

#### Further information can be found at:

- Bastians lab: <http://www.moloncol.med.uni-goettingen.de/de/content/research-groups/101.html>
- Wnt research consortium: <http://sfb1324.de/>
- Goettingen Center for Molecular Biosciences (GZMB): <http://www.uni-goettingen.de/en/115976.html>

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 November 1st, 2017:

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Travel and application fees cannot be refunded or transferred.

Please send your application only via e-mail as a PDF-file.