



Bild: © Uni Bonn, Volker Lannert

The **University of Bonn** is an international research university offering a broad range of subjects. With a 200-year history, some 33,000 students, more than 6,000 employees and an outstanding reputation in Germany and abroad, the University of Bonn is one of the leading universities in Germany and has been awarded the status of a University of Excellence.

The research group of Prof. Dr. Oliver Größ, Institute of Genetics, Department of Biology at the University of Bonn, is looking for, as of now, with a contract initially limited to 3 years:

PhD students (TV-L EG 13/65%),

who want to carry out basic molecular cell biology research with genuine enthusiasm and a spirit of adventure.

Your research task - to decipher the mechanism and regulation of chromosome separation:

The research group of Prof. Dr. Oliver Größ at the Institute of Genetics is focused to investigate the organization of the dynamic microtubule cytoskeleton during chromosome segregation. Microtubule regulators play a crucial role here, which we want to understand in molecular detail¹⁻³. We use molecular biology techniques, super-resolution microscopy (3D STORM), cell-free extracts and assays with recombinant proteins. In the fascinating research field of chromosome segregation and genome stability, many questions remain unanswered and are waiting to be elucidated by you!

What you should bring with you:

- A master's degree (M.Sc.) in biology, biochemistry, molecular cell biology or developmental biology with a focus on molecular biology.
- Experience in molecular and cell biology methods.
- A high level of motivation to further develop your own research project conceptually and to advance it experimentally independently.
- Willingness to share your expertise through teaching activities.

Our offer to you:

- Immersion in an inspiring research environment with a clear focus on basic research.
- Comprehensive support from our experienced team to successfully guide you to your doctorate.
- Secure financing of your project through institutional funds and funds from the German Research Foundation.
- Excellent transport links to the institute due to its central location at the botanical garden
- Access to numerous sports facilities at the university
- A salary according to remuneration group 13 TV-L as well as the early establishment of a company pension scheme (VBL).

The University of Bonn is committed to diversity and equal opportunities. It is certified as a family-friendly university. Its goal is to increase the proportion of women in areas where women are underrepresented and to particularly promote their careers. It therefore strongly encourages applications from relevantly qualified women. Applications are handled in accordance with the State Equal Opportunity Act. Applications from suitable persons with proven severe disabilities and persons treated as such are particularly welcome.

If you are interested in this position, please send your **complete and informative** application documents **by 20.02.2024**, quoting the **reference number 3.3/2024/01**, for technical reasons only in a PDF file by e-mail to Prof. Dr. Oliver Gruss (ogruss@uni-bonn.de). Complete applications in German or English have to include a Bachelor's and Master's transcript, a letter of motivation (max. 1 page), a CV and a brief statement of research experience and interests (publications if applicable). If you have any questions, please send an e-mail to Prof. Dr. Oliver Gruss (ogruss@uni-bonn.de).

- 1 Yokoyama, H. *et al.* Chromosome alignment maintenance requires the MAP RECQL4, mutated in the Rothmund-Thomson syndrome. *Life Sci Alliance* **2** (2019). <https://doi.org:10.26508/lsa.201800120>
- 2 Liu, P. *et al.* Insights into the assembly and activation of the microtubule nucleator γ -TuRC. *Nature* **578**, 467-471 (2020). <https://doi.org:10.1038/s41586-019-1896-6>
- 3 Chu, Z. & Gruss, O. J. Mitotic Maturation Compensates for Premature Centrosome Splitting and PCM Loss in Human cep135 Knockout Cells. *Cells* **11** (2022). <https://doi.org:10.3390/cells11071189>