

We are one of the youngest universities in Germany and think in terms of possibilities, not limitations. In the heart of the Ruhr region, we develop ideas of the future at our 11 faculties. We are strong in research and teaching, live diversity, support potential and are highly committed to an educational equality that has earned this name.

The University of Duisburg-Essen (Campus Essen)
Center of Medical Biotechnology (ZMB) offers a

PhD position (salary equivalent to 65% TV-L 13)

in Biochemistry and Molecular Cell Biology

Description of the PhD project

In the context of the **DFG-funded Collaborative Research Center 1430 “Molecular Mechanisms of Cell State transitions”**, a PhD position is available in the Lab of Prof. Stefan Westermann in the Department of Molecular Genetics I.

The aim of the CRC1430 is to answer fundamental questions about switch-like trigger mechanisms of cell state transitions, from cell cycle progression in cell division to plasticity of cancer cells to achieve an understanding of critical proliferation regulation that will also reveal novel therapeutic strategies for neoplastic diseases. The CRC’s interdisciplinary approach links direct methodological approaches, including in particular sophisticated biochemical reconstitution, as well as single cell and real-time microscopy with new approaches of acute optical and chemical perturbation

The Westermann lab combines biochemical, genetic and imaging approaches to study fundamental mechanisms of eukaryotic cell division with a focus on the kinetochore complex (Killinger et al., EMBO J. 2020, Schmitzberger et al., EMBO J. 2017, Pekköz et al., Current Biology. 2016, Schleiffer et al., Nature Cell Biology 2012) and the microtubule cytoskeleton (Kornakov et al., JCB 2020, Molodtsov et al., Cell 2016). In the project “Molecular control of kinetochore microtubule interactions at the metaphase-anaphase transition” – regulatory mechanisms that allow the bi-orientation of sister chromatids on the mitotic spindle will be investigated using a combination of biochemical reconstitution, genetic perturbation and real-time imaging.

For more information and additional current job offerings in the CRC1430 please visit:
www.uni-due.de/CRC1430

Candidates interested in several projects in the CRC1430 are encouraged to apply to multiple laboratories during this recruitment round. Interviews will be coordinated among the PIs of the CRC.

Your profile

Applicants should have a keen interest in fundamental aspects of cell biology and a proven background (typically indicated by a Master or Diploma degree in Biology or related fields) in biochemistry, molecular biology and/or microscopy. Candidates will benefit from the highly interdisciplinary and international research environment at the ZMB (<https://www.uni-due.de/zmb/>) and will be part of the CRC’s **integrated Research Training Group on “Molecular and Chemical Cell Biology”**, which offers a structured qualification program that accompanies the PhD project.

We offer

The successful candidate will be part of our new and highly interactive research group at the Center of Medical Biotechnology ZMB (<https://www.uni-due.de/zmb/>), which provides an international and interdisciplinary research environment with access to excellent facilities.

<u>Start of position:</u>	01.10.2021 or later
<u>Contract period:</u>	3 years
<u>Working time:</u>	65 percent
<u>Application deadline:</u>	19.08.2021

Applicants should include a statement of motivation, a summary of the MSc project incl. methods and techniques that were used and the names and contact details of at least two referees. Please send applications as a single pdf file with reference code **533-21** to crc1430@uni-due.de. Please note that applications cannot be returned.

The University Duisburg-Essen aims at promoting the diversity of its members and considers aspects of competence that derive from age or origin of the applicants (see <http://www.uni-due.de/diversity/international.shtml>). Applications from disabled or equivalents according to § 2 Bas. 3 SGB IX are encouraged.

The University of Duisburg-Essen has been awarded for its effort to promote gender equality with the "Total-E-Quality-Award". It aims at increasing the share of women in the scientific personnel and therefore explicitly encourages women to apply. Women will be preferentially considered when equally qualified according to the state equality law.

You can find information about the Faculty and the contracting authority under:

www.uni-due.de/CRC1430
<https://www.uni-due.de/zmb/>

www.uni-due.de

