



# PhD-/Postdoc-Positions

available at the

## Institute of Experimental Cardiology at Heidelberg University



UNIVERSITÄT  
HEIDELBERG  
ZUKUNFT  
SEIT 1386

### *Cardiac chromatin biology*

#### **We offer**

PhD- and Post-doctoral positions available for highly motivated and creative candidates in the lab of Ralf Gilsbach at Heidelberg University (Germany). We offer a competitive salary (TVL-13: 65% for PhD candidates, 100% for Postdocs) based on previous work experiences following the collective agreement applicable to Heidelberg University.

#### **Project Description**

The available research projects at the interface of cardiovascular and computational biology aim to understand and develop strategies to treat heart disease. You will combine NGS-based epigenetic (e.g. C&T, CHIP, ATAC), chromatin interaction analysis (HiC) and single-cell technology to unravel the dynamics and molecular mechanisms regulating enhancer-gene communication in cardiac cells. CRISPR-based functional genomics methods will allow you to explore and steer regulatory mechanisms of heart disease. These studies will take advantage of both *in vitro* and *in vivo* disease models, including primary and iPS-derived cell lineages.

#### **Qualifications and Requirements**

Candidates with a background in cardiovascular sciences, chromatin biology or computational biology are highly encouraged to apply. We expect an excellent MSc related to one of the mentioned research fields to join as a PhD student. A doctorate in a related field and a publication track record is expected for a Postdoc position.

#### **How to apply**

Interested candidates should send their application, consisting of a motivation letter, a CV, and the contact details of two/three previous advisors/mentors, as a single pdf to Prof. Dr. Ralf Gilsbach ([gilsbach@vrc.uni-frankfurt.de](mailto:gilsbach@vrc.uni-frankfurt.de)). The prospective start date is April 2022 (flexible).

For more information on our work, please refer to:

Gilsbach, R. et al. 2018. Nat Commun. 9:391.

Nothjunge, S. [...] R. Gilsbach. 2017. Nat Commun. 8:1667.

Gilsbach, R. et al. 2014. Nat Commun. 5:5288.



**CRC1425**