



Aachen, 15/12/2019

## PhD Student Position

### Patient Specific iPS Cells for Studying Myeloproliferative Disease

#### RWTH Aachen University Medical School

We invite applications of highly motivated individuals for a PhD student position on **patient specific induced pluripotent stem cells (iPS cells) for studying mutated JAK2 and CALR in myeloproliferative disease**. The project is embedded in the Clinical Research Unit (CRU 344) "*Untangling and targeting mechanisms of myelofibrosis in myeloproliferative neoplasms (MPN)*" funded by German Research Foundation (DFG). The CRU 344 comprises 6 research projects and a service project and aims at elucidating the cellular and molecular mechanisms that govern the pathogenesis of bone marrow fibrosis.

The successful applicant will work in an international team and apply state-of-the-art and advanced techniques of cellular reprogramming and induction of pluripotency in human cells, stem cell specification and differentiation, RNA-Seq and ATAC-Seq analysis, lentiviral transduction and genome editing by CRISPR/Cas for gain and loss of function studies. Working language is English.

We offer postgraduate education within the Biomedical Graduate School (BMGS) Aachen <https://www.medin.rwth-aachen.de/cms/Medizin/Die-Fakultaet/Foerderangebote/Strukturierte-Doktorandenausbildung/~rey/1/Biomedical-Graduate-School-Aachen/lidx/1/> and the Center of Doctoral Studies (CDS) of RWTH Aachen University <https://www.rwth-aachen.de/cms/root/Studium/Nach-dem-Studium/Promotion/~eka/Weiterbildungsangebote-fuer-Promovierende/?lidx=1>.

Qualifications and experience: The successful applicant should have a university degree (diploma, master or equivalent) and experience in standard techniques of cell biology, tissue culture and molecular cloning. Willingness for teamwork and the ability to work independently are required.

Salary is according to German public service salary scale level TV-L 13 (65%) depending on qualification. The position is available for 3 years starting in January 2020. We particularly welcome and encourage applications from women, disabled people and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.

The Institute for Biomedical Engineering, Department of Cell Biology, RWTH Aachen University Medical School and Helmholtz Institute for Biomedical Engineering, RWTH Aachen University study genetic programs that determine cell identity and developmental potential, with a focus on (i) hematopoietic stem cells and their differentiated progeny, and (ii) stem cell reprogramming and induction of pluripotency for disease modelling. For further information please see [www.molcell.de](http://www.molcell.de).

Applications, including a cover letter that specifically emphasizes your interest in our work, full CV and contact information of 2-3 referees, should be sent by e-mail to [eveline.mierau@rwth-aachen.de](mailto:eveline.mierau@rwth-aachen.de) until **January 15, 2020** quoting the reference number **GB-P 21830**.

For questions please contact Martin Zenke, PhD, Professor of Cell Biology, Chairman, Director, [martin.zenke@rwth-aachen.de](mailto:martin.zenke@rwth-aachen.de), Institute for Biomedical Engineering, Department of Cell Biology RWTH Aachen University Medical School, Pauwelsstrasse 30, 52074 Aachen, Germany

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We are looking forward to your application!