STudent REseArch Mobility Programme (STREAM)
Research Project proposal

Host University:
Albert-Ludwigs-Universität Freiburg

Field (drop-down list):
Natural sciences, mathematics and statistics

Specified field, subject:
Cell and Gene Therapy.

Research project title:
Applying genome editing to treat primary immunodeficiencies.

Possible starting month(s):

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Possible duration in months:

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Exact starting and end dates will be discussed between the supervisor and the student.

Suitable for students in: ☑ Master level

Prerequisites:
Basic knowledge in molecular biology.

Restrictions:
Successful completion of Bachelor Thesis in Life Sciences.

Description (maximum 2,000 characters):
The research activities at the Institute for Transfusion Medicine and Gene Therapy focus on (i) improving genome editing tools based on TALEN and CRISPR-Cas for therapeutic applications in human cells, (ii) developing assay to evaluate designer nuclease induced off-target effects, (iii) applying preclinical disease models to validate the developed strategies, and (iv) translating immune cell and stem cell therapies to the clinic to treat certain types of cancers, HIV infection and primary immunodeficiencies.

https://www.uniklinik-freiburg.de/itg-en/research-development.html
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Research laboratory:
AG Cathomen
https://www.uniklinik-freiburg.de/itg-en/research-development.html

Faculty and/or Department:
Institute for Transfusion Medicine and Gene Therapy
Center for Chronic Immunodeficiency
Medical Center – University of Freiburg
Germany

Deadline for nomination to reach host university:
none

Notification of admission given by the end of:
2 weeks after application

Contact person, including position:
Dr. Moritz Heck
Coordinator LERU-STREAM
Abteilung Lehrentwicklung
Universitätsverwaltung am Fahnenbergplatz

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