Since 2019 **The German Research Foundation (DFG)** has been funding the **Collaborative Research Center (SFB) 1382 'Gut-Liver Axis – Functional Circuits and Therapeutic Targets'** (www.crc1382.org). Within this interdisciplinary research consortium, starting from 01.06.2021, the University Hospital of RWTH Aachen University will award the position for a

Bioinformatician (m/f/d) on the topic 'Single Cell Bioinformatics in the Gut-Liver Axis'

CRC1382 comprises 18 projects that bring together scientists from basic and clinical research, which aim at investigating molecular, immunological, metabolic, microbiological, systems biology and medical aspects of the gut-liver interaction. Our goal is to develop new diagnostic and therapeutic concepts for the treatment of intestinal and liver diseases.

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The successful applicant will be expected to support various research projects of CRC1382 with a clear focus on the analysis of single cell sequencing (scRNAseq) data. The scRNAseq experiments will be planned, performed and analyzed as a team with the participating research groups. Currently, CRC1382 is employing scRNAseq-based experiments to characterize different immune cell populations and intestinal epithelial cells and to study immune cell receptor repertoires in mice and humans. To facilitate an accurate description and interpretation of experimental and translational findings, appropriate analysis methods will be developed and established. These comprise quality control, data integration, clustering, identification and visualization of cell types, as well as explorative analysis methods such as trajectory inference, RNA velocity and integration of multi modal data.

For this pivotal position we are looking for a highly motivated Bioinformatician (m/f/d) with a university degree (Diploma, Master or comparable). The degree may have been obtained in the field of life sciences as well as computer science. The candidate should have proven proficiency in the analysis of sequencing data, in particular scRNAseq. We expect a good command of English (spoken and written) and the willingness to work in a competitive international environment.

We offer a dynamic and interdisciplinary clinical and basic scientific environment and modern equipment. With 40,000 students and 6,000 academic staff, RWTH Aachen University is one of the largest universities in Germany.

Salary group is TV-L (EG 13).
This advertisement is adressed to all genders. The RWTH Aachen University Hospital promotes equal opportunities and diversity. Applications from women are expressly encouraged and will be given priority in accordance with the LGG. Employment below the weekly working hours specified above is generally possible. Severely disabled people will be given priority if they are equally qualified.

You should only use our digital application portal at www.karriere.ukaachen.de for your application. There you have the option of securing your documents in the electronic application folder to prevent unauthorized access. Applications that reach us by email to: bewerbung@ukaachen.de (this transmission path is generally not sufficiently protected) will be transferred to the application portal. The documents sent will be disposed of immediately after being transferred to the portal in accordance with data protection regulations. After the prescribed retention period has expired, the data in the portal will also be deleted. Please note that we can only consider your application if you agree to transfer your data to the application portal.

Please send your documents including a letter of motivation, curriculum vitae, all academic certificates and 2-3 references.

The application period for the advertised position **GB-P-30004** ends on **16.06.2021**.
For further information, please contact: Professor Oliver Pabst, E-Mail: opabst@ukaachen.de.
Please visit the homepage of CRC1382 ‚Gut-Liver Axis' (www.crc1382.org)

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