

Bioinformatics in Leukemia

The Institute for Biomedical Engineering – Cell Biology, at RWTH Aachen University Medical School is offering a position for a

Bioinformatic scientist (Postdoc or PhD student; m/f)

starting as soon as possible. We offer a position, which is initially limited for 2 years with the option for extension. The salary is based on the German public service salary scale (TV-L E13, supported by Deutsche Krebshilfe).

Focus of this project is on **DNA Methylation Patterns in Leukemia**. Many patients with acute myeloid leukemia (AML) achieve complete remission after chemotherapy, but often these patients will eventually experience relapse. In this project, we propose a new epigenetic approach to track minimal residual disease based on disease-associated DNA methylation patterns. Promising preliminary barcoded bisulfite amplicon sequencing data is already available. The epigenetic data needs to be combined with other available deep sequencing datasets and subjected to machine learning to identify patient specific and disease associated DNA methylation patterns. (homepage: www.stemcellbiology.ukaachen.de)

We are looking for a motivated and ambitious scientist with a strong background in bioinformatics. You should have research experience in analysis of NGS data, management of large data, and experience in the programming languages R and optionally perl or python. Basic knowledge in cell biology and stem cell biology and/or hematology would be advantageous as you are expected to understand and contribute to specific scientific questions. You should hold a very good master and/or PhD degree. Willingness for teamwork is a prerequisite.

We offer a highly interactive and well equipped environment in an international team (all English speaking), with excellent partners (including other bioinformatics groups), a broad spectrum of methods and a highly relevant research topic.

The RWTH Aachen University is certified as a family-friendly university and offers a dual career program for partner hiring. 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.

Your application should include a cover letter which specifically emphasizes your interest in our work (preferably in English), CV, and copies of the most important certificates. For additional questions please contact Prof. Dr. Dr. Wolfgang Wagner. Your application should be send by Email until October 28th, 2018 (wwagner@ukaachen.de).

We are looking forward to your application!