Department of
Translational Genomics

UNIKLINIK KÖLN | Klinik und Poliklinik für Hals-, Nasen- und Ohrenheilkunde

Student assistant (WHB) and Master student in the areas of Cancer Genomics.

The Department of Translational Genomics at the University of Cologne is looking for students willing to gain experience in the computational analysis of cancer genomes. We are interested to understand the molecular processes underlying the acquisition of tumour resistance to therapy and how therapy shapes tumour populations in small cell lung cancer.

Your Tasks

You will work in a newly established group led by Dr. Maria Cartolano. You will run computational pipelines aimed at identifying somatic variants in cancer samples. You will analyse signature of mutational processes and their dynamics in the evolving tumour cellular composition and you will perform bulk RNA sequencing and single cell RNA sequencing to identify pathways correlated with pathogenesis and resistance.

Your Profile

You must be a student in bioinformatics, biological sciences, biochemistry or related. You must have at least a very basic knowledge of LINUX/UNIX and of scripting (e.g. R, Python). Previous experience with Next Generation Sequencing (NGS) data will be considered a plus. We expect a highly motivated candidate with good communication skills, proactive, independent and solution-oriented.

We offer

- An international and multidisciplinary research environment;
- Participation in numerous seminars within the field of translational cancer biology;
- Intensive mentoring;
- A very friendly working environment.

To apply for this role please contact Dr. Maria Cartolano at mcartola@uni-koeln.de.
Website: https://www.translational-genomics.de/research-groups/cartolano-lab.