



Data Scientist for Image-based High Content Drug Screening in Personalized Oncology - 100%

The Department of Biomedicine (DBM) at the University of Basel and University Hospital Basel is seeking a data scientist for our automated image-based high content (HC) drug screening platform. The translational breast cancer research team led by Prof. Bentires-Alj (<https://bentireslab.org/>) has established an automated HC drug screening platform for personalized oncology. Drug sensitivities are tested on tumor organoid cultures derived from patient tissues. This new technology platform will push the boundaries of personalized oncology research and treatment of cancer patients.

Your tasks include:

- HC image-derived drug screening data visualization and statistical analyses
- Incorporating statistical evaluation into the established analysis workflows
- Task automation management: setup automated workflow/pipeline of image-derived drug screening data
- Management of large image and data sets (local server and high-performance cluster)
- Analyses of high-throughput, patient-derived genoproteomic data
- Working with the research group of Prof. Bentires-Alj and supporting colleagues in their research projects
- Actively participate in scientific discussions and present your work

Your profile:

The successful candidate holds a MSc (PhD is a plus) degree in bioinformatics, statistics, computational biology or related fields. The candidate should be highly motivated, have a robust training in visualization, statistical analyses and interpretation of image-derived HC drug screening data.

In particular:

- Extensive experience in HC 3D image-derived drug screening data analyses
- Good background in statistics and experience in R and Python is a must
- Proficient in workflow automation management
- Experience in genoproteomic data analyses and data management is a plus
- Scientific problem-solving, resourceful and integrative personality
- Flexible and adaptable to a rapidly evolving field, excellent organization skills

We offer you

A stimulating, challenging and interdisciplinary research environment, and attractive employment conditions. The **DBM is an international institute** pursuing basic, translational and clinical research, with access to cutting-edge core facilities. This position gives you the opportunity to work at the forefront of a highly visible and strategically important personalized medicine research program at the University and University Hospital of Basel.

For informal inquiries, please contact M. Diepenbruck (thmrjobapplication-dbm@unibas.ch).

Application / Contact

Applications should be submitted electronically at:

<https://biped2.dbm.unibas.ch/apply/data-scientist-personalized-oncology>