targenomix

the target identification company

targenomix GmbH is a systems biology research company with core expertise in computational biology, omics technologies, data analytics, digital phenotyping, quantitative and molecular genetics, cell biology and biochemistry. One of our main research fields is identification of molecular targets of biologically active small molecules. targenomix focuses on providing a range of innovative solutions for the development of next-generation small molecules with a focus on crop protection compounds. We maintain close links to academia and industry reflected in interactions with publicly funded research institutions including Max Planck Institutes and universities, but also via strategic collaborations with global enterprises with core competencies in the life science fields of agriculture and health care. At targenomix you have the opportunity to be part of a young, highly motivated and dedicated team with a diverse scientific background.

Post-doctoral scientist

Chemoinformatics / structural biology

YOUR TASKS AND RESPONSIBILITIES

Your role will strengthen our chemoinformatics team and contribute to our work studying the effects of small molecules on biological systems using both ligand-to-ligand as well as ligand-to-protein approaches. In the systems biology-oriented environment of targenomix you will also work closely with database and application developers to embed and extend chemoinformatics workflows in the company infrastructure and discuss and present your work with an interdisciplinary team of biologists, biochemists and bioinformaticians.

WHO YOU ARE

You hold a PhD in chemistry, biochemistry or a related subject and have several years of chemoinformatics and/or structural biology experience. You are comfortable working with various chemical data formats and generating chemical fingerprints, and have experience of chemical similarity searching methods and virtual screening. You are familiar with the interpretation of X-ray crystallographic/NMR/EM data, have a thorough understanding of the thermodynamics of ligand/receptor interactions and have expertise in ligand/protein *in silico* docking.

You have a good overview of state-of-the-art software relevant to the field (both open source and commercial) and expertise using molecular visualisation software (e.g. PyMOL). Workflow programming/scripting skills and/or experience with KNIME would be a plus.

Additionally, experience with the concepts of pharmacophores/toxicophores and receptor fingerprints is desirable, as is knowledge of machine learning approaches and how to run molecular dynamics simulations.

Generally, a good understanding of biology and interest in interpreting the data in their biological context would be beneficial.

At targenomix, you will work in a young and professional team with a highly diverse scientific background. Therefore, good interpersonal skills along with a cooperative work attitude and a high degree of motivation are essential.

YOUR APPLICATION

If you are interested in the above position, please send your application by email to info@targenomix.com. The application deadline is 1st August 2021. For further details please visit http://www.targenomix.com

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