

Bioinformatician

Rixensart, Belgium

Company Description

Eurofins is Testing for Life. Eurofins is the global leader in food, environment, pharmaceutical and cosmetic product testing, and in discovery pharmacology, forensics, advanced material sciences and agro-science Contract Research services. Eurofins is also a market leader in certain testing and laboratory services for genomics, and in the support of clinical studies, as well as in Biopharma Contract Development and Manufacturing. The Group also has a rapidly developing presence in highly specialized and molecular clinical diagnostic testing and in-vitro diagnostic products. With 58,000 staff across a network of 900 laboratories in 54 countries, Eurofins' companies offer a portfolio of over 200,000 analytical methods. Eurofins Shares are listed on Euronext Paris Stock Exchange.

Eurofins Professional Scientific Services (PSS) is a global, award-winning insourcing solution. A Eurofins PSS employs and manages full-time analysts, technicians, scientists, and technical support personnel directly at the client facility to provide long term staffing needs while maintaining the same services, expertise, and cGMP compliance available at the Eurofins facility. Eurofins PSS offers excellent career opportunities for people who have a proven track recording in combining excellent technical ability with first class interpersonal and communication skills.

Job Description

As a bioinformatician working within the Molecular Biology group you will be supporting the analysis of multi-omics data for Preclinical discovery projects. This includes the analysis of sera screening experiments in collaboration with the Discovery Data Science Team.

Tasks

- Generation of analytical pipeline for sera screening
- Data analysis of sera screening and data integration
- Bioinformatic support during antigen discovery efforts (e.g., link structure with solubility issues, if any, to guide lab strategy; predict structure and provide additional information on promising candidates)
- Participate to weekly lab meetings

Generation of analytical pipeline for data integration of recombinant mAbs read-outs (e.g., productivity, affinity, epitope binding)

Tasks

- Develop and implement algorithms for integrating diverse data types, such as productivity measures, affinity measurements, and epitope binding profiles.

- Consider statistical and computational methods to harmonize the data
- Creating scripts or workflows that merge the information coherently, enabling a holistic view of mAb characteristics.
- Participate to weekly lab meetings

Support data analysis of single cell multi-omics experiments in collaboration with GSK's Discovery Data Science Team.

Tasks

- Develop methods for integrating data from different omics modalities, such as single-cell RNA sequencing (scRNA-seq), BCR/TCR sequencing, and spatial transcriptomics.
- Explore and implement computational algorithms or tools that enable the integration of diverse datasets, allowing for a comprehensive analysis of cellular heterogeneity and interactions.
- Investigate functional correlations between clonal diversity and gene expression patterns.
- Developing custom scripts or utilizing existing tools for clonotype identification, diversity metrics, and integration with gene expression data.

Qualifications

- A Ph.D. in Bioinformatics, Computational Biology, Biostatistics, or a related field. Master's degree can be considered based on previous experience.
- Strong background in computational biology and bioinformatics methodologies with focus on multi-omics data analysis.
- Proficiency in programming languages commonly used in bioinformatics, such as Python and R.
- Knowledge of analysis and integration of multi-omics data, including single-cell transcriptomics, BCR/TCR sequencing.
- Knowledge of statistical methods for high-dimensional data analysis.
- Additional knowledge of structural biology and software platforms like MOE, or any equivalent software (Rosetta / Schrödinger) is a plus.
- Result-oriented, rigorous and structured.

Additional Information

- A full-time (40hours/week) Monday – Friday job.
- A Permanent contract with flexible working hours.
- Work in a fast growing international organization.
- Meal Vouchers 8 Euro/Working Day.
- Eco-Cheques +/- 250 Euro/Year.
- DKV Hospitalization insurance.
- Additional 12 ADV days.
- A company well-being program targeting both mental and physical well-being.
- A fantastic team with monthly team lunches, fun teambuilding activities (laser tag, escape rooms, sports, etc.) and above all; a great collaborative international work environment
- Personal development through learning on the job and additional trainings.