

Contacts:

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Reference: BIOINFO_EXP

Start date: January 2021

Place of work: Lyon (69008)

Contract type: permanent (CDI) with 4 months of probation time (not renewable)

Company presentation

Signia Therapeutics is an innovative French start-up proposing a breakthrough strategy to identify and repurpose rapidly, efficiently and at low cost already marketed drugs or to recycle unused drugs for new antiviral indication against several human respiratory viruses.

The repurposing strategy is based on the comparison of transcriptomic signatures of clinical samples from infected patients or relevant *ex vivo* model of infections against a proprietary data bank drug specific signature on the same relevant model for thousands of drugs.

Signia Therapeutic's drug discovery platform has already demonstrated its significant potential with proofs-of-concept already established for several market-approved drugs that were validated for new anti-influenza and anti-MERS-CoV indications. Signia Therapeutics's most advanced product is under a Phase II multicentric clinical evaluation (FLUNEXT trial) for the evaluation of one very promising antiviral candidate, with final results expected in 2021.

Job description:

Signia Therapeutics is looking for a new bioinformatic engineer attached to the R&D bioinformatics team.

Your main missions will be the following:

- Proceed to expression data analysis and functional study.
- Improve in-place pipeline or develop new for gene expression (e.g. Single-cell, RiboSeq).
- Develop gene expression signature comparison algorithm based and connectivity.
- Develop solutions to integrate functional data (e.g. Reactome) within connectivity analysis.
- Develop solutions to integrate Omics data (e.g. interactomics, regulomics) within connectivity analysis.
- Support and guidance to the other members of the R&D team.

Your secondary missions will be:

- Pipeline automation
- Infrastructure management

Profile description:

You have a bioinformatics or biostatistics master or PhD degree with previous working experience (PhD included) in data analysis from high-throughput technologies (preferably in gene expression and functional analysis).

Required skills:

- Programming language: Python, R (and REST API)
- IT environnement : Linux
- Knowledge: Transcriptomics, NGS data analysis, Biostatistics

Bonus skills:

- Knowledge: Systems Biology and network-based functional analysis
- IT environnement : Docker, Gitlab
- Pipeline framework: At least one and preferably CWL
- Data visualization: Shiny (rstudio) project development

How-to Apply:

Email us (julien.fouret@signiatherapeutics.com) with the object "[BIOINFO_EXP] LAST_NAME First_name" with

- a 1-page CV with eventually an annex with achievements (publication, software, conference and so on).
- A message with ideally ~250 words but feel free to express yourself
- **Optional:** a document you produced, and you are proud of (publication, report, master or PhD thesis or some code)
- **Optional:** a list of referees (at least one would be great)