

Post-doctoral fellow in oncology

 CDD 12 months

 Start : April 2024

 Lyon

 Partial

 PhD

Job description

Mission

The person recruited will be responsible for leading a collaborative research project funded by INCa: **RnaSIST – Implication of translational regulation by the ribosome in drug resistance in lung adenocarcinoma: towards therapeutic targeting of RNAs**. The aim of this project is to identify translationally regulated mRNAs and chemical modifications of ribosomal RNA mediated by snoRNAs, and to determine whether these RNAs are involved in resistance to tyrosine kinase inhibitors in non-small cell lung cancer.

The candidate will be based in the “Ribosome, Translation and Cancer” team, headed by Jean-Jacques Diaz, at the Cancer Research Centre of Lyon, and will work in the group led by Virginie Marcel.

Keywords: lung cancer, resistance to tyrosine kinase inhibitors, ribosome, rRNA epitranscriptomics, translation, snoRNA, combination therapy

Principal activities

- Help define the project's development strategy
- Day-to-day management of project progress
- Design, plan and carry out experiments
- Analysing and interpreting data
- Helping to supervise the people involved in the project
- Report on project progress
- Identifying problems affecting the progress of the project and proposing appropriate solutions

Working environment

- Cancer Research Center of Lyon (CRCL)
- Working group: 1 DR2, 1 PU, 3 PhD students, 2 IE, 2 M2
- Collaborations: CRCL, Montpellier, Sherbrooke (Canada) / cancer biology, snoRNA, bioinformatics
- Language: French and/or English

Knowledge

- Cancer biology
- Non-coding RNA and/or translation and/or ribosome
- Knowledge of the mechanisms of resistance to anti-cancer treatments would be welcome

Know-how

- Cell biology techniques (cell culture and/or organoids, expression modulation by antisens approach or expression vector, cell viability, apoptosis, etc.)
- Biochemistry and molecular biology techniques (RNA/protein extraction, RTqPCR, ddQPCR, western blot, polysome profiling, etc.)
- Data acquisition, management/archiving, analysis and interpretation
- Project management
- Communication: written (scientific article) and oral (meeting, poster and oral presentation)
- Office automation and scientific analysis tools (e.g., GraphPadPrism)
- Laboratory management (laboratory and equipment maintenance, participation in team and center life)

Abilities

- Ability to solve problems with long-term implications in mind
- Ability to work independently and effectively under their regular guidance of the supervisor
- Ability to work closely with a PhD student and an engineer
- Ability to manage scientific projects and external collaborations

Experience

- Between 0 and 4 years after thesis in academic or private research

Formation

- PhD in cellular and/or molecular biology

General information

Starting date

Between April and June 2024

Duration

12 months

Renewable : YES NO

Working hours

- Full time
- Number of hours per week : 38h30
- Annual leave and RTT

Teleworking

YES * NO

* Limited to 1/2 day per week

Remuneration

- **Civil servants:** according to statutory conditions (salary scale and IFSE corresponding to the job).
- **Contract employees:** €2939 to €3336 gross per month, depending on professional experience in equivalent positions.

Application

Deadline

31 January 2024

Application

Send your CV and motivation letter to virginie.marcel@lyon.unicancer.fr