



Open Positions – Cancer Biology/Bioinformatics

University of Liège-GIGA Institute (ERC founded project)

Liège, Belgium

We are looking for 2 highly motivated PhD students and 1 Post-doc fellow to join an ERC-funded project (https://www.news.uliege.be/cms/c_12316474/fr/francesca-rapino-decroche-un-erc-starting-grant-pour-son-projet-trnatogo). Candidates with a strong interest in fundamental cancer research and/or omics data analysis pipelines development are encouraged to apply. The successful candidates will be working in a dynamic and international environment and will be performing cutting-edge science.

Research group:

The candidates will join a new group that will work in a dynamic environment at the GIGA institute (www.giga.uliege.be). The focus of the new group will be to understand and characterize the origin of cancer stem cells from a tRNA prospective. We use patient derived cell lines, murine models, a wide range of sequencing approaches (i.e.: RNA-seq, ribo-seq, polysome profiling-sequencing, single cell sequencing, tRNA sequencing) and proteomics approaches to identify new potential vulnerabilities that can be utilized for targeted therapies in cancer.

Project details:

The project focus on assessing the role of tRNA heterogeneity in the establishment of cancer stem cells. The successful candidates will be in charge of developing cutting-edge screen techniques, analyzing sequencing data, generate relevant mouse models and assessing the impact of the findings on patient derived material.

Relevant publications:

<i>Ladang*, Rapino* et al, J.Exp.Med. (2015)</i>	<i>Delaunay et al, J.Exp.Med. (2016)</i>
<i>Rapino et al, Trends in Cancer (2017)</i>	<i>Rapino et al, Nature (2018)</i>

Eligibility requirements:

- Master's level degree or PhD degree in relevant disciplines (biology, pharmacy, bioinformatics).
- Experience with CRISPR-Cas9 screens for Post-doc is highly preferred.
- Experience with molecular biology, cell culture methods, and mouse models are preferred.
- Experience in analysing large sequencing dataset (R, Python expertise) is preferred but not necessary.
- Strong interest in interdisciplinary research.
- Enthusiastic and highly motivated team player.
- Excellent communication skills in spoken and written English.

Application:

If interested, please send your CV, degree certificate, transcript of grades, a summary of accomplishments/research interests, and contact information for two references to Dr. Francesca Rapino (Francesca.rapino@uliege.be)