
PhD POSITION
CANCER BIOLOGY - BIOINFORMATICS
GIGA- Institute, ULiege

We are looking for a highly motivated PhD student with a strong interest in translational cancer research and/or development of omics data analysis pipelines. The aim of the project is to predict new cancer vulnerabilities in the field of tRNA biology and mRNA translation regulation. The successful candidate will be working in a dynamic and international team and will be performing cutting-edge science. *Starting Date: early 2020*

Research group:

The Laboratory of Cancer Signaling (<https://www.gigalcs.uliege.be>) studies the role of codon-specific translation in cancer. We use patient derived material, murine models, a wide range of sequencing approaches (i.e. RNA-seq, Ribo-seq, Polysome Profiling-sequencing, scRNA-seq, tRNA sequencing, MS/MS) to identify new cancer vulnerabilities and develop new therapeutic strategies. The student will benefit from a stimulating and highly competitive scientific environment (strong international network and prestigious grants).

Selected publications:

Close et al, Mol Cell (2006)

Close et al, Cell. Mol. Life Sc. (2010)

Close et al, J. Biol. Chem. (2012)

Close et al, Nature (2012)

Ladang, Rapino* et al, J.Exp.Med. (2015)*

Delaunay et al, J.Exp.Med. (2016)

Rapino et al, Trends in Cancer (2017)

Rapino et al, Nature (2018)

Position:

A four years PhD position is available in the Lab of Cancer Signaling (supervision: Drs. Francesca Rapino & Pierre Close) in the GIGA-Institute (www.giga.uliege.be). The successful candidate will be in charge of the development of new analyses pipelines of sequencing data generated in our lab. The project aims at identifying the biological role of tRNA molecules and regulating enzymes in cancer and at positioning mRNA translation actors in specific pathological contexts. This project is based on solid data generated in the lab.

Eligibility requirements:

- Master's level degree in computer science and/or bioinformatics, or in biology with a strong focus on big data handling.
- Experience with computational biology. Preferentially the candidate should be experienced in Matlab, R, and Python with machine learning applications.
- Enthusiastic, dedicated and highly motivated scientist.


Application:

Please send your application (cv, motivation and two references letters) to:

Francesca.Rapino@uliege.be & Pierre.Close@uliege.be

Lab of Cancer Signaling
GIGA-Research Institute
University of Liege

More infos at www.gigalcs.uliege.be
or

@gigacancersignaling

