**Post doctoral position at GIGA-Cancer, GIGA institute, Liège University, Liège, Belgium**

Combating breast cancer resistance to therapy has been an overwhelming task since several years in clinic and in research labs. In this project, we are investigating targeting ferroptosis in therapy resistant TNBC and HER2 breast cancers. Ferroptosis is an iron-catalyzed form of cell death that occurs as the consequence of excessive lipid peroxidation of cellular membranes phospholipids. We have shown that induction of ferroptosis is an effective strategy to kill therapy resistant tumors. However, breast cancer cell response to ferroptosis inducers is dependent on a particular lipid profile and on molecules that confer resistance to therapy and ferroptosis.

In this project, we are investigating the therapeutic potential of ferroptosis in high-risk metastatic breast cancers (a therapy-resistant TNBC and HER2 tumors) by using multidisciplinary approaches, combining, lipidomics, proteomics and functional assays in vitro and in vivo. In parallel, we aim to discover and characterize novel targets that modulate signaling and ferroptosis in therapy resistant breast cancers.

**Requirement,**

. Junior postdoctoral researcher

. Strong hands on molecular and cellular biology techniques, FASC analysis and in vivo work.

. You are quality-oriented, creative and cooperative

. You have a strong passion for Cancer Research and excellent communication skills.

**We offer:**

. 3 years fellowship in Sounni’s team at the Laboratory of Tumor and Development Biology at GIGA-Cancer, GIGA Institute of Liège University, Liège, Belgium

. A dynamic and stimulating work environment at GIGA with young and motivated people

. Cutting-edge frontline research in the field of breast cancer and therapy resistance

**How to apply?**

• PhD by thesis or a degree or a diploma or certificate in the ﬁeld of (bio)medical sciences, biotechnology and biochemistry recognized as equivalent in accordance with European Union directives or a bilateral agreement.

• The interviews of the preselected candidates will take place in June, 2021.

* The selected candidate is expected to start in July 2021
* Applications should include motivation letter, CV and 3 referees
* Contact: Dr Nor Eddine Sounni; email: nesounni@uliege.be