PhD POSITION  
IN MOLECULAR CANCER BIOLOGY  
GIGA-Research Institute, University of Liege

Topic: Translation regulation and proteome remodeling in cancer

Background:
An increasing body of evidence indicates that translation reprogramming plays key roles in cancer development and drug resistance but the mechanisms involved in this process remain poorly understood. Specific tRNA modifications are required for during translation. In our lab, we hypothesize that such modifications may contribute to protein synthesis rewiring during tumorigenesis (1). By using a combination of genetic models of cancer, unbiased proteomics screening, functional analysis with patient derived materials, and a deep molecular dissection of cellular signaling pathways, our work aims at providing a comprehensive examination of the contribution of specific tRNA modifications in oncogenic transformation, metastasis formation and drug resistance. Together, we hope to uncover new general mechanisms that support tumor adaptation through regulation of specific protein synthesis and will help define new therapeutic opportunities to fight cancer.

Selected publications:
(1)Rapino et al, Trends in Cancer (2017)

Position: A four years PhD position is available in the Lab of Cancer Signaling (GIGA-Research Institute). The ideal candidate should demonstrate high motivation and determination to be involved in competitive and high profile fundamental research. Solid statistical background and previous lab experience will be favourable. The student will benefit from a stimulating scientific environment (courses, activities, seminars) provided by the GIGA-Research Institute (www.giga.ulg.ac.be).

Starting date: October 2017

Application: Please send your application to: Pierre.Close@ulg.ac.be
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