



PhD POSITION
in MOLECULAR BIOLOGY of GENE EXPRESSION
GIGA-Research Institute, University of Liège
Belgium

Topic: Regulation of Translation by Transcription Factors

Background:

A growing body of evidence suggests that eukaryotic transcription factors (TF) may have additional roles in gene expression, outside of transcription. Deregulation of TF activities is a common feature of multiple malignancies, including cancer. The current model of how TF might impact on tumor biology only focuses on their ability to control transcription of genes that promote the establishment and/or the maintenance of the malignant phenotype. However, despite years of investigations and identification of multiple transcriptional targets, this model often failed to fully decipher the oncogenic potential of TF. In this project, we would like to assess the provocative hypothesis that together with their function in mRNA synthesis, aberrant translation of important target mRNAs by oncogenic TF might contribute to their roles in cancer initiation and progression. We believe that a full understanding of oncogenic TF functions can only arise from considering an integrated model of TF-dependent gene regulation, including roles in mRNA synthesis, degradation (ongoing project) and translation (this project).

Selected publications from the host laboratory:

Dequiedt et al., J. Exp Med (2005)

Martin et al., PNAS (2008)

Legros et al., Oncogene (2011)

Martin et al., EMBO J. (2013)

Rambout et al., Nat Struct Mol Biol (2016)

Position: A four years PhD position is available in the laboratory of Protein signaling and Interactions (GIGA-Research). The candidate should be ready to undertake competitive and high profile fundamental research. He/She should demonstrate high motivation, commitment and proactivity. Previous experience in a molecular biology lab is preferable. Statistical background and ability to work in a team will be favorable. The student will benefit from the stimulating GIGA (www.giga.ulg.ac.be) scientific environment (courses, activities, seminars, technology platforms, etc.).

Starting date: from October 2017

Application: Please send application (CV and cover letter) to : fdequiedt@ulg.ac.be

Pr Franck Dequiedt

Laboratory of Protein Signaling and Interactions

GIGA, University of Liège