Université de Lille,
Institut Pasteur de Lille, CNRS UMR 8161

Mechanisms of Tumourigenesis and Targeted Therapies

Two-year Post-doctoral position in UPR, senescence and fibrosis

The team « Initiation of Epithelial Cancer » (CNRS UMR8161) is located at the Institut de Biologie de Lille/Institut Pasteur de Lille (www.pasteur-lille.fr) and offers a highly competitive scientific infrastructure.

We are looking for a dynamic and motivated candidate to work on the FISSURE project which will be conducted in collaboration with Nicolas Pottier's group (Univ Lille). The objectives of the project are to comprehensively characterize the functional role played by the UPR pathway in fibrosis, senescence, senescence-associated secretory pathway (SASP), and to determine whether targeting specific branches of the UPR pathway influences aged cell outcome. The project will use several approaches, including cell imaging, culture of primary cells, and *in vivo* experiments in mice.

The candidates of any nationality must hold a PhD, should have a strong background in molecular and cellular biology in the related fields. Practical experience of *in vivo* biological experimentation would be an asset. Candidates should send a curriculum vitae, a brief summary of research interest, and reference letters to: olivier.pluquet@ibl.cnrs.fr

Expected employment starting date : 2018-10-01

Publications of the teams relevant to the project:

Abbadie C, et al. **(2017)** Epithelial cell senescence: an adaptive response to precarcinogenic stresses? **Cell Mol Life Sciences.** 74 :4471-4509

Druelle C, et al. **(2016)** ATF6a regulates morphological changes associated with senescence in human fibroblasts. **Oncotarget.** 7:-67699-715

Nassour J, et al. **(2016)** Defective DNA single-strand break repair is responsible for senescence and neoplastic escape of epithelial cells. **Nat Commun.** 7:10399.

Pluquet O, et al. **(2015)** Unfolded Protein Response and cellular senescence. **Am J Physiol-Cell Physiol** 308:C415-25.

Pottier N, et al. (**2014**). Translating molecular discoveries into new anti-fibrotic drugs **Trends Pharmacol Sci**. 35:119-26.

Martin N, et al. **(2014)** Identification of a gene signature of a pre-transformation process by senescence evasion in normal human epidermal keratinocytes. **Mol Cancer** 13 :151

Lino Cardenas CL et al. (**2013**) miR-199a-5p Is upregulated during fibrogenic response to tissue injury and mediates TGFbeta-induced lung fibroblast activation by targeting caveolin-1. **PLoS Genet**. 2013;9(2):e1003291.