



Postdoctoral position

A 2-years post-doctoral position is available at the IUH Hôpital St Louis, Paris X, France in the team of C. Dargemont to study the **Spatiotemporal organization of mRNA nuclear biogenesis, from chromatin to the nuclear pore complex.**

While most of the molecular actors involved in the biogenesis and export of messenger ribonucleoparticles (mRNPs) have been characterized, their molecular interplay, the spatiotemporal organization of these processes as well as their intricate relation with chromatin dynamics remains elusive. We recently reported that histone marks as well as chromatin remodelers could impact mRNP biogenesis independently of the transcription process per se. We now aim at deepening our understanding of these fundamental questions. This will be addressed in the model organism *S. cerevisiae* using a combination of approaches including genetics, molecular biology (ChIP, RNA-IP, CRAC, RNAseq) and microscopy (live-cell imaging).

Team: the project will be performed in the team “Ubiquitin and Dynamics of molecular scaffolds” (INSERM U944/CNRS 7212, Hopital St Louis, Paris) Catherine Dargemont as a strong expertise in nucleocytoplasmic transport of both RNA and proteins, nuclear pore complex as well as in ubiquitin-like modifications. IUH are located in the center of Paris, in very pleasant and living urban environments, a few stops away from Paris historical center but also easily reached from many Paris suburban areas. The position is available from January 1st, 2017.

Related recent publications from the team:

- Babour, A., Shen, Q., ...Dargemont, C. (2016) The chromatin remodeler ISW1 Is a quality Control Factor that surveys nuclear mRNP biogenesis. **Cell**, In press
- Guet D, .. Salamero J and **Dargemont C.** (2015) Combining Spinach-tagged RNA and gene localization to image gene expression in live yeast. **Nature Commun.** 6:8882, doi: 10.1038/ncomms9882.
- Nino, C.A., Hérisant, L., Babour, A., and Dargemont, C. (2013). mRNA nuclear export in yeast. **Chem Rev.** 113, 8523–8545.
- Vitaliano-Prunier, A., Babour, ... and Dargemont, C. (2012). H2B ubiquitylation controls the formation of export-competent mRNP. **Mol. Cell** 45, 132–139.

Applications (CV, letter of motivation and a couple of references) should be sent to: Catherine Dargemont (catherine.dargemont@inserm.fr) or Anna Babour (anna.babour@inserm.fr)