POSTDOCTORAL POSITION AVAILABLE
in telomere, DNA damage response and genome stability

“Telomere & Genome Stability” group
Laboratory of Computational and Quantitative Biology
Institut de Biologie Paris-Seine
Paris, France

Project overview:
Telomeres, the extremities of eukaryotic linear chromosomes, are structurally similar to one side of a double-strand break (DSB). Our lab investigates the cellular responses to telomere shortening or dysfunction and to DSBs, including repair and adaptation to DNA damage. We are interested in the molecular mechanisms of these responses, in their consequences for genome instability, and in how they are similar or different between telomeres and DSBs. The lab uses Saccharomyces cerevisiae as a model organism and combines molecular biology and genetics with microscopy, microfluidics, genomics and mathematical modelling.

Context and funding:
The postdoc will join a young group headed by Zhou Xu (http://www.lcqb.upmc.fr/telomere-and-genome-stability), which is part of the multidisciplinary environment of the Laboratory of Computational and Quantitative Biology (LCQB; http://www.lcqb.upmc.fr/), at the Institut de Biologie Paris-Seine (IBPS; https://www.ibps.sorbonne-universite.fr/fr), at Sorbonne Université (Paris, France) and jointly supported by the University and the National Center for Scientific Research (CNRS). The group has broad multidisciplinary scientific interests in telomere biology and DNA damage response both in S. cerevisiae and in C. reinhardtii, using single-cell approaches, molecular biology, genetics and mathematical modeling.

The postdoc position is funded for 2 years by Mairie de Paris (Programme Émergence(s)) and by Sorbonne Université, and will start as soon as possible.

Application:
The candidate must have a PhD degree in life sciences and have experience in genetics, biochemistry or molecular biology. Expertise in the field of DNA damage, telomere, chromosome organization or cell cycle, and work experience with S. cerevisiae will be appreciated. The candidate must be proficient in English. To apply, please send your CV, a cover letter describing your interests and previous work, and contact information of 2 references to zhou.xu@sorbonne-universite.fr or zhou.xu@polytechnique.org

Selected publications:

¹Corresponding authors, *co-first authors