



Postdoctoral Research Position Physics for Biology in Toulouse

A two to three years postdoctoral position is available from September 2017 to study fission yeast cell division using physics approaches for Biology. Our research focuses on understanding how accurate chromosome segregation is achieved using interdisciplinary approaches including experimental and computational methods such as advanced laser based microscopy (laser ablation, FRAP, photoactivation, optical tweezers), microfluidics, data analysis and modeling (see Courtheoux et al. J.Cell Biol, 2009;; Reyes et al. J. Cell Biol, 2015). Previous work in the laboratory established a simple computational model of chromosome segregation (Gay et al. J.Cell Biol, 2012; Mary et al. 2015 J.Cell Sci.). The project will focus on extending this chromosome segregation model using a data-driven approach. Depending on his training and interests, the successful candidate will have the opportunity to develop either experimental or computational aspects of the project.

A PhD in physics (optical physics or biophysics) is required. Experience in the modeling of biological objects (e.g. molecular motors) and data analysis would be appreciated.

Interested candidates should submit an application with a curriculum vitae and contact information for up to three references to:

Dr Sylvie Tournier sylvie.tournier-gachet@univ-tlse3.fr

Dr Gachet Yannick yannick.gachet@univ-tlse3.fr

Université Paul Sabatier, LBCMCP-CBI - CNRS UMR5088, Bât4R3-B1, 118 route de Narbonne, 31062 TOULOUSE Cedex, FRANCE