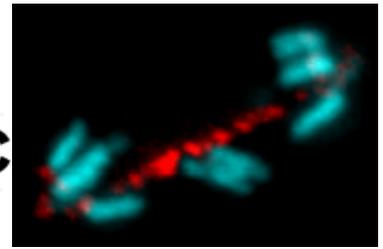




Institut
Européen
de Chimie
et Biologie



I E C B

Postdoctoral position in the Royou group
“Control and dynamics of cell division”
European Institute of Chemistry and Biology,
CNRS, UMR5095, Bordeaux, France
<http://www.royoulab.info/>

Starting date: January 2016 or subject to negotiation
Duration: 2-3 years
Contact: a.royou@iecb.u-bordeaux.fr

A post-doctoral position is available in Dr. Anne Royou's group (<http://www.iecb.u-bordeaux.fr/index.php/fr/equipes/53-control-and-dynamics-of-cell-division>) at the European institute of Chemistry and Biology (IECB), Bordeaux, France.

The focus of the lab is to decipher the mechanisms that promote faithful transmission of the genome during cell division using *Drosophila melanogaster* and Human cell culture. One of our projects explores the mechanisms by which broken chromosomes segregate efficiently to daughter cells. This process involves the kinetochore proteins BubR1, Bub3, Polo and Aurora B (Derive et al., 2015; Royou et al., 2010). The candidate will use complementary approaches including live imaging techniques (time-lapse, FRET, FRAP, laser microsurgery), biochemistry, genetics and molecular biology to decipher the molecular mechanisms by which DNA breaks are processed during mitosis. More information on our projects and the team can be found on our website (<http://www.royoulab.info/>).

We seek a cell biologist or biochemist with less than four years experience as a post-doc. We are particularly interested in candidates who are familiar with the chromatin or kinetochore fields. Expertise in live imaging techniques, biophysics or *Drosophila* genetics will also be welcomed. Candidates should speak English fluently.

The IECB institute hosts young teams working in a multidisciplinary environment at the interface between Biology and Chemistry. The Royou group has access on a daily basis to three microscopes including two spinning disks and to technology platforms available at IECB and the University of Bordeaux, providing state-of-the-art mass spectrometry, structural biology and microscopy facilities.

Bordeaux is a beautiful city located in the South-West of France. It is an hour from the nearest beach and surf spots, and 3 hours from the nearest ski resort in the Pyrénées.

Candidates should send a letter of motivation and a CV including research

experience and a list of publications. Please also provide the name and contact details of at least two referees.

Publications

Derive, N., Landmann, C., Montembault, E., Claverie, M.C., Pierre-Elies P, Goutte-Gattat, D., Founounou, N., McCusker, D., Royou, A. (2015) Bub3/ BubR1 sequestration of Cdc20^{Fizzy} at DNA breaks promotes the correct segregation of broken chromosomes. The *J. Cell. Biol.* 211(3)

Kotadia, S*, Montembault, E*, Sullivan, W. and Royou A (2012) Cell elongation is an adaptive response for clearing long chromatid arms from the cleavage plane. *J. Cell Biol.* 199(5):745-53.

Royou, A., Gagou, M., Karess, R., D., Sullivan, W. (2010) BubR1 and Polo-coated DNA tethers facilitate the segregation of acentric chromatids. *Cell* 140(2) : 235-45.