



# Two Postdoc Positions: Epithelial tissue dynamics from cells to tissue.

Our laboratory addresses emerging questions in the field of cell and tissue dynamics, cytoskeletal mechanics and genetic regulation ([website](#)). Our team is interdisciplinary, composed of both biologists and physicists, and is located in the Department of Developmental Biology and Genetics of the Curie Institute, Paris France. Successful applicants will work on fundamental questions related to the mechanisms of actin-myosin dynamics, cell division in tissue, regulation of tissue morphogenesis or the interplay between biochemical and mechanical cues in tissue dynamics. Candidates should have a background in cell biology, development biology or physics/engineering and be highly motivated to work in a multidisciplinary environment. Experience and publications in advanced imaging, tissue morphogenesis or cell biomechanics will be strongly appreciated.

The Curie Institute is an ideal and challenging environment for any candidate who is deeply interested in cell and developmental biology or interdisciplinary research. The Institute has state-of-the-art core facilities for microscopy, protein purification and mass spectrometry,... In addition, the Curie Institute is ideally located in the centre of Paris and, with a large international community of students and scientists, it provides a wonderful environment for foreign post-docs. .

Questions regarding the projects and applications (curriculum vitae, statement of research interests, and contact information of 2 references) should be addressed by email to: Yohanns Bellaïche: [yohanns.bellaiche@curie.fr](mailto:yohanns.bellaiche@curie.fr)

### *Recent selected publications:*

Bardet P-L, Guirao B, Paoletti C, Serman F, Léopold V, Bosveld F, Goya Y, Mirouse V, Graner F, Bellaïche Y. 2013. PTEN controls junction lengthening and stability during cell rearrangement in epithelial tissue. ***Developmental Cell***, 25:534-46. [\[link\]](#)

Heisenberg C-P. and Bellaïche 2013. Forces in tissue morphogenesis and patterning. ***Cell***. 153:948-62. [\[link\]](#)

Herszterg S, Liebfried A, Bosveld F, Martin C, Bellaïche Y. 2013. Interplay between the dividing cell and its neighbors regulates *adherens* junction formation during cytokinesis in epithelial tissue. ***Developmental Cell***, 24: 256-70 [\[link\]](#)

Bosveld F, Bonnet I, Guirao B, Tlili S, Wang Z, Petitalot A, Marchand R, Bardet PL, Marcq P, Graner F, Bellaïche Y. 2012. Mechanical control of morphogenesis by Fat/Dachsous/Four-jointed planar cell polarity pathway. ***Science***. 336:724-7. [\[link\]](#)