

OPEN POSTDOCTORAL POSITION IN CELL BIOLOGY/ MECHANOBIOLOGY (24 month)

The “Cell Adhesion and Mechanics” lab (<http://ladoux-mege-lab.cnrs.fr>) is an interdisciplinary team, gathering Biologists and Physicists working together on cell and tissue mechanics and cell responses to physical and mechanical cues. The team is funded by ERC (Benoit Ladoux, consolidating grant 2014-2019) and ANR grants (2018-2020).

The CAM lab is part of the Institut Jacques Monod (<http://www.ijm.fr/en/home-page/>), a major research center of CNRS housed at Université Paris-Diderot. The institute is constituted of more than 30 teams working in the fields of Genome and Epigenomes, Evolution and Development and Cell Biology and Biophysics. IJM is generously equipped with state-of-the-art imaging and proteomics core facilities.

The CAM lab research aims at understanding how mechanics, adhesion-associated mechanotransduction and mechanosensing regulate the adaptation of cells to changes in physical environment at various scales, from single molecules to tissues. The overall goal of the team is to understand how coordinated regulation of cell adhesion and cytoskeletal dynamics contributes to cell and tissue mechanics and adapted cell response to forces, particularly in the context of the dynamics of epithelial sheets. To do so the team combines a multidisciplinary range of skills comprising microfabrication, experimental cell biology, functional live cell imaging and biophysics with theoretical modelling.

Within the framework of the POLCAM ANR project, the postdoc will explore the emergence of front-rear cell polarization and coordinated polarization during collective cell migration. He(she) will investigate the contribution of intercellular mechanotransduction to cell and tissue polarization.

The proposed funding is for 24 month. The salary will be adapted to the experience of the candidate. Starting date will be February/March 2018. We seek for a motivated and talented cell biologist. Experiences in cell culture and cell imaging are mandatory.

Interested applicants should email curriculum vitae, statement of research interests and names of two-three references (or recommendation letters) to R.M. Mège (rene-marc@ijm.fr) or B. Ladoux (benoit.ladoux@ijm.fr).

