



**Postdoctoral position open
at the Developmental Biology Institute of Marseille, France
CNRS/Aix-Marseille University**

A two-year post-doctoral position is available at IBDM starting september 2013 to work on a common project between the group of André Le Bivic and the group of Pierre-François Lenne, on the development/implementation of 3D-super resolution microscopy for the study the architecture of epithelial cells, with a special focus on apico-basal polarisation processes. One specific goal is to understand the role of a polarity protein Crumbs in epithelial morphogenesis and E-cadherin-based junction remodeling in vivo using *Drosophila melanogaster* and human epithelial cells in culture. These cellular events involve both junction disassembly and assembly and we want to know how Crumbs regulates the local F-actin and E-cadherin organization and stability and how this might affect epithelial homeostasis and tumor formation.

We are looking for a highly motivated scientist with a background in biophysics/instrumentation and/or cell biology who wants to develop/implement a new approach to tackle these questions. The developed set-up combines optical sectioning capability, provided by sheet illumination, with far-field individual molecule super-localization (3D PALM/STORM). We also envision to correlate high resolution optical fluorescence data with electron microscopy.

Our Institute provides a rich scientific environment with state-of-the-art imaging infrastructure and a strong community of groups working on epithelial cells and cell mechanics (see our website: <http://www.ibdm.univ-mrs.fr/>).

For more information please contact both: andre.le-bivic@univ-amu.fr and pierre-francois.lenne@univ-amu.fr with a CV, a letter of motivation and the e-mail addresses of 2 references.

