



COLLÈGE  
DE FRANCE  
—1530—



Centre Interdisciplinaire de Recherche en Biologie  
Center for Interdisciplinary Research in Biology  
College de France

UMR CNRS 7241 / INSERM U1050

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[http://www.college-de-france.fr/default/EN/all/cirb/s\\_germain.htm](http://www.college-de-france.fr/default/EN/all/cirb/s_germain.htm)  
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Paris, 13 décembre 2011

Collège de France

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## Postdoctoral position

### Role of Matrix Proteins in Hypoxia and Angiogenesis

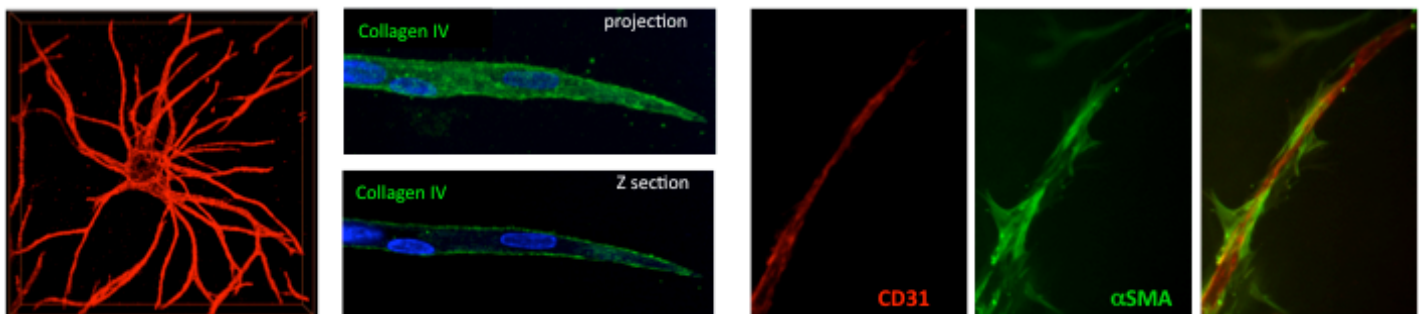
#### Center for Interdisciplinary Research of the College de France

The Research Group "Role of Matrix Proteins in Hypoxia and Angiogenesis" has an open postdoctoral position to work at the Center for Interdisciplinary Research (CIRB) of the College de France. This position is financed by a grant from Université Pierre et Marie Curie. It will start as soon as possible, it has no nationality restriction and the working language is French and/or English.

**The focus is** on the extensive extracellular matrix (ECM) remodeling that occurs during angiogenesis. We have recently shown the first evidence for the role of LOXL2 (Lysyl oxidase-like protein-2) in regulating angiogenesis through collagen IV scaffolding (Bignon *et al.*, Blood 2011). Our aim is to elucidate the molecular mechanisms involved in building the vascular microenvironment and its impact on capillary formation. A special emphasis will be given on the interplay between establishment and mechanosensing of the environment rigidity.

The laboratory is part of a growing and lively collaborating group of biologists at the CIRB and both physicists and chemists at the Laboratoire de Chimie de la Matière Condensée de Paris (LCMCP: <http://www.labos.upmc.fr/lcmcp/>) at Collège de France and Jussieu.

Approaches will involve cell biology, live imaging, 3-D cell culture models of angiogenesis and characterization of the mechanical properties of the 3-D matrices.



**We are looking for** highly motivated scientists

- with background in cell biology and cell imaging
- an orientation towards interdisciplinary work
- a strong track-record of publications in peer-reviewed journal.

**Please send us** your application with a CV, a cover letter outlining your motivation, a short summary of your past research and the names of at least two references.

#### Contacts:

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