



Post-doctoral Position in Extracellular Matrix, Biomechanics and Skin Biology

Institut de Génomique Fonctionnelle de Lyon,
France



Description

A **18-months** post-doctoral position is available from **April 2014** in Lyon (France) in the group of Florence Ruggiero at the « Institut de Génomique Fonctionnelle de Lyon » (<http://igfl.ens-lyon.fr/equipes/f.-ruggiero-matrix-biology-and-pathology/>). The group is interested in the regulation of extracellular matrix (ECM) network and cell-matrix interactions in development, repair and diseases using cell and animal (mouse and zebrafish) models. We employed cell and mouse models of defective connective tissues, and combinations of cell biology, global transcriptome approach, biochemistry, cell and tissue imaging and electron microscopy. The successful candidate will work on a project dealing with the biomechanics of healthy, wounded and defective skin using a multi-scale structural approach and the impact of skin stretching on gene expression profile. We will use wild type mice and mouse models for the classic form of the Ehlers-Danlos Syndrome, a connective tissue heritable disorder caused by mutations in collagen genes that is mainly characterized by impairment of tissue mechanical properties and delayed wound healing with atrophic scars. This project will be conducted in close collaboration with Marie-Claire Schanne-Klein and Jean-Marc Allain (Polytechnique, Palaiseau, France).

Location

The "Institut de Génomique Fonctionnelle de Lyon" (<http://igfl.ens-lyon.fr>) is a research institute run by the ENS-Lyon (<http://www.ens-lyon.fr>), the CNRS and the University of Lyon 1 that conducts basic research in evolutionary sciences, developmental biology and physiology. IGFL has developed an in-house sequencing platform and has easy-access to state-of-the-art core services, including cell and tissue imaging and animal facilities (<http://www.ifr128.prd.fr>).

Qualification

Candidate should be within three years from obtaining their PhD degree. We seek should highly motivated candidates with ability to work in an independent fashion. Experience in transcriptomic analysis and/or electron microscopy and matrix biology would be an advantage. The project will require *in vivo* manipulations in mice and the use of mutant mouse lines.

How to apply

Please forward your application containing your CV, a short letter describing your motivation and research experience and contacts of two referees to florence.ruggiero@ens-lyon.fr