

Post-doctoral position in Optical Microscopy at CNRS & Ecole Polytechnique

Multiphoton and Fluorescence Lifetime Microscopy for metabolic imaging

**Laboratory for Optics and Biosciences,
Ecole Polytechnique, Paris-Saclay area, France**

The Advanced Microscopies & Tissue Physiology group at the Laboratory for Optics and Biosciences (LOB), Ecole Polytechnique, University of Paris-Saclay, France, is seeking a highly motivated and talented postdoctoral scientist with interest in interdisciplinary optical microscopy and biophysics research.

The Laboratory develops advanced methods in nonlinear optics, tissue microscopy, image analysis, cell/developmental biology, and biophysics for studying intact biological tissues with subcellular resolution.

Candidates should have a solid background and good experimental skills in optics and/or microscopy and should be strongly motivated and keen to work in an interdisciplinary research field. Previous experience in optical imaging and fluorescence lifetime microscopy will be an asset.

The successful candidate will develop novel approaches for fast fluorescence lifetime imaging of endogenous fluorophores in stem cells and living tissues with application to metabolic imaging (Stringari et. al PNAS 2011, Stringari et al Sci. Rep 2012, Aguilar-Arnal et. al PNAS 2016, Stringari et al Sci. Rep 2017).

The postdoctoral fellowship is funded by a 2017 Human Frontier Science Program Young Investigator collaborative grant. The awarded project: "*Chromatin dynamics and nuclear metabolism: an intimate interplay uncovered by non-linear optics*" aims to understand epigenetic mechanisms during stem cell differentiation and in particular investigate the influence of cellular metabolism on gene expression.

The postdoctoral appointment will be for 2 years. Detailed information about the research can be requested via email. Interested applicants should submit a CV and cover letter to Chiara Stringari at chiara.stringari@polytechnique.edu before February 5th.

For more information on Laboratory for Optics and Biosciences research, please visit:
<https://portail.polytechnique.edu/lob/en/research/advanced-microscopies-tissue-physiology>