**Postdoctoral position in mesoscopic cardiac imaging**

We are looking for a highly motivated post-doctoral research fellow to join the group of Dr. Leonardo Sacconi (https://cardiac.ino.it) at European Laboratory for Non-linear Spectroscopy in Florence. The successful candidate will exploit cutting-edge methods for sample preparation (CLARITY, SHIELD) and imaging (light-sheet microscopy) to reconstruct the cytoarchitecture of massive cardiac samples at micron-scale resolution. The structural reconstruction will be used to generate a high-resolution image-based computational model to simulate the conduction pathway of action potential propagation across the whole tissue with the aim to elucidate the role of tissue remodeling in the electro-mechanical dysfunctions.

The applicant must have significant expertise in optical clearing protocols. A PhD in biology or related topic is preferred, together with previous research experience in tissue transformation and antibody-staining. Fluency in English, excellent communication skills, and the open mindset needed to work in a multidisciplinary environment are required.

The successful applicant will be hired with a 1-year, renewable research fellowship (‘Assegno di ricerca’) at the National Institute of Optics of the National Research Council. She/he will have the opportunity to work in a highly multidisciplinary institute that brings together biologists, physicists, chemists, and engineers to tackle complex problems with the most advanced technologies.

Preliminary applications, including CV, list of publications and statement of research interests should be sent to Dr. Leonardo Sacconi (sacconi@lens.unifi.it).

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