Identification of point mutation to rescue defective cystic fibrosis gene

Available position: CRISPR and fluorescent biosensor to rescue defective CFTR

Postdoctoral Opportunity Starting January 1, 2019

At the Institute of Biophysics of CNR (http://www.ibf.cnr.it/), we are looking for a bright and enthusiastic individual who is interested in CRISPR, GFP-based biosensors, live cell fluorescence and microfluidics.

This interdisciplinary project aims at identifying CFTR point mutation able to reestablish the correct level of chloride transport. The project combines CRISPR-based genome editing, biosensor microscopy and microfluidics in collaboration with Prof. A. Cereseto (https://www.cibio.unitn.it/97/laboratory-of-molecular-virology) and the company MicroFabSolutions (https://www.microfabsolutions.com).

This position requires PhD level training in biophysics, biotechnology, or similar disciplines. Previous experience with live cell microscopy, CRISPR technology or microfluidics engineering is desirable. The successful applicant will join a collaborative research environment.

Applications should be sent by email to Dr. Arosio at daniele.arosio@cnr.it. Applicants are requested to send a CV, representative publications, and names and contact information of three references.