

POSTDOCTORAL POSITION - 2 years

CHARACTERIZATION OF ENDOPLASMIC RETICULUM-MITOCHONDRIA MEMBRANE CONTACT SITES INVOLVED IN LIPID TRANSPORT

Institut de Biologie Intégrative de la cellule (I2BC), CNRS-Université Paris Sud,
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Francesca Giordano's team

A postdoctoral position is available at the new research group of Francesca Giordano at the Institut de Biologie Intégrative de la Cellule (CNRS and Paris Sud University). The position is financed by the ATIP-Avenir program for 2 years and will start between March and June 2017.

F. Giordano's team is interested in the role of inter-organelle membrane contact sites (MCS), where the membranes of two different organelles come into very close proximity without fusing. We are particularly interested in their role in lipid exchange between membranes and in the regulation of organelle dynamics. Dereglulation of MCS is linked to several neurodegenerative disorders including Alzheimer, ALS, Parkinson and Charcot-Marie-Tooth disease.

The project will focus on the functional characterization of newly identified components of Endoplasmic Reticulum (ER)-mitochondria MCS involved in lipid transport. By using a combination of approaches including cell biology and biochemical studies, cell-free system, live cell imaging and electron microscopy, we aim to biochemically, morphologically and functionally dissect ER-mitochondria MCS involved in lipid transport/metabolism and to study how their functions impact on mitochondria morphology, activity and dynamics.

Highly motivated candidates should have a PhD in biological or biochemical sciences and strong background in molecular biology, cell biology and biochemistry. Prior experience with cell-free assays (i.e. liposome-based lipid-transport assays) and/or electron microscopy will be positively evaluated.

Applicants should send a detailed CV, motivation letter and the contacts of three referees to Francesca Giordano.

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