

Projet de Recherche PostDoctoral : Structural biology of chaperone-mediated protein translocation in endosymbiotic organelles.

Localisation : Institut de Biologie Physico-Chimique, 75005, Paris

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A postdoctoral position is available on structural and functional studies of chaperone-mediated protein translocation in mitochondria and chloroplast, two organelles of endosymbiotic origin whose functions, such as photosynthesis, respiration or metabolism of amino acids and lipids, are essential for the cell. The vast majority of their proteins is nuclear-encoded and must be post-translationally transported through their membranes via a complex macromolecular apparatus called translocon. The project focuses on the role of Hsp70 and Hsp90 molecular chaperones in pre-protein translocation and aim at deciphering the molecular mechanism of chaperone recognition and regulation by cochaperone receptors associated to the translocon. The IBPC has state-of-the-art equipment for protein expression, purification, crystallography including Mosquito and DragonFly Robotics. Frequent access to synchrotron sites and excellent computational facilities are also available. The candidate must hold a PhD and have significant experience in protein-protein interactions studies using biochemical and crystallographic approaches.

Ce projet de recherche postdoctoral est financé pour deux ans par le LABEX DYNAMO. Date de début du projet : 1^{er} Octobre 2014 (plus tôt, si nécessaire).