



IBPC

INSTITUT DE BIOLOGIE PHYSICO-CHIMIQUE
CNRS FRC 550



Three post-doctoral positions in Organelle Biology

Three post-doctoral positions are available immediately at the laboratory of “[Molecular and Membrane Physiology of the Chloroplast](#)” in the “[Institut de Biologie Physico-Chimique](#)”, Paris V^{ me}, France. These positions are open for two years, with a third year extension, if required.

Our laboratory develops a multidisciplinary approach of photosynthesis that combines genetics, molecular biology, biochemistry and biophysics. The three projects more specifically focus on chloroplast protein assembly in the unicellular green alga *Chlamydomonas reinhardtii*, on its regulation and on the participation of the nuclear genome to the biogenesis and dynamics of the photosynthetic apparatus.

Position 1: The CES process (an assembly-controlled regulation of translation of organelle-encoded subunits) in the biogenesis of the chloroplast ATP synthase: mechanism and biological significance of this regulatory process, in comparison with that in yeast mitochondria.

Position 2: Nuclear-encoded factors that control expression of cytochrome *f*: molecular mechanism and participation in the assembly-controlled regulation of cytochrome *f* synthesis (CES process).

Position 3: Functional analysis of two proteins that are found only in algae: a thylakoid phosphoprotein (PetO) associated with the cytochrome *b₆f* complex and possibly involved in state transitions; a member of a novel family of repeat-containing proteins required for cytochrome *b₆f* biogenesis

A more detailed description of the projects is available on line:

<http://www.ibpc.fr/UMR7141/SiteEn/postdoc.htm>

These positions are intended for young scientists interested in multidisciplinary approaches as all projects involve genetics, molecular genetics, microbiology, protein biochemistry and biophysics (fluorescence and absorption spectroscopy).

Requirements:

Candidates must have a Ph. D. in genetics, microbiology, molecular biology or biochemistry, preferably obtained within the past two years, and excellent academic records. Publications in international peer-reviewed journals are requested.

How to apply:

Enquiries for additional information and application should be sent by mail to Yves Choquet (choquet@ibpc.fr), Olivier Vallon (ovallon@ibpc.fr) and Francis Andr  Wollman (wollman@ibpc.fr). Laboratoire de “[Physiologie Mol culaire et Membranaire du Chloroplaste](#)”, UMR7141-CNRS/UPMC, [Institut de Biologie Physico-Chimique](#), 13, rue Pierre et Marie Curie, F-75005 Paris, France. Candidates should send CV, a brief description of previous research, a covering letter describing their expertise and interests for the topic and contact information of at least 2 referees.