

Post-Doc position:

“Photoprotective antenna protein dynamics: from live cells to algal proteoliposomes”.

Publication date: 13th of December 2016;

Closing date for application: 31st of January 2017.

Proposed starting date: **March 2017**.

Description

The “Dynamics of Photosynthetic Membrane” group at the Algatech Centre of Třeboň is **looking for one Post-doc Researcher** to study “Photoprotective antenna protein dynamics: from live cells to algal proteoliposomes”.

The project aims at elucidating the mechanism of **photo-protection in algae**. Physiological studies done *in vivo* on selected algal strains will be complemented by *in vitro* experiments. For this second part, antenna protein quenching dynamics will be simulated in **proteo-liposomes** and analyzed by advanced microscopy methods (confocal, electron and atomic force microscopy). The ultimate goal is to produce an all-round model for the adaptive protein dynamics that occur in algae under high light stress. References: Kaňa et al. FEBS 590, 2016; Belgio et al. Nat. comm. 5, 2015; Von Ballmoos et al. PNAS 108, 2011.

Qualifications required

PhD in Biophysics, Cell Biology or Plant Biology.

Previous experience with proteo-liposomes (highly welcome).

Capacity to work both independently and in a team.

Good spoken and written English.

We offer

3 years contract in the state of the art research facility at the Algatech Center.

International collaborations with leading laboratories (QMUL, UK; Stockholm Univ., Sweden).

Stimulating, interdisciplinary research opportunities aimed at quality, peer-reviewed publications.

Interested applicants should send their CV and motivation letter to belgio@alga.cz .

The **ALGATECH Centre (Institute of Microbiology, CAS, Czech Republic)** is an institution with world-wide recognition for research on various aspects of biology, biophysics, ecophysiology and biotechnology of phototrophs. The institute is situated in Třeboň, South Bohemia, and employs more than 100 people in an international, friendly environment.

The research of **Dr. Erica Belgio** contributes to the “Dynamics of Photosynthetic Membranes” group and is focused on basic aspects of photo-protection in photosynthetic organisms. Methods employed range from biochemistry (chromatography, sucrose gradients, pigment-protein reconstitution) to biophysical techniques (mainly fluorescence spectroscopy).

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