

Postdoctoral Research Fellow position



Applications are invited for a Postdoctoral position in the [Light Photosynthesis & Metabolism](#) team in the [Cell and Plant Physiology](#) Laboratory, funded by the [University of Grenoble](#) (France). We are seeking a highly motivated, enthusiastic and talented scientist with excellent skills and knowledge in bioinformatics (transcriptomics and proteomics), and eventually mass spectrometry. The work will be performed under the supervision of Dr. Johan Decelle (see Project below). The successful candidate will collaborate with a state-of-the-art Proteomics platform ([EDyP: Exploring the Dynamics of Proteomes](#)) in Grenoble at the CEA.

We offer an initial 1-year contract (extendable to 2 years). The position is available at the earliest possible date.

Project:

The overall aim of the research team is to understand the molecular and cellular mechanisms of microalgae facing different abiotic constraints (e.g. light, nutrient availability) using a multidisciplinary approach. The team has a strong expertise and knowledge in photosynthesis (light signaling and utilization), metabolism (carbon assimilation), plant and algae physiology and cellular biology.

The successful candidate will be involved in a new project that aims to **study symbiosis with microalgae in the oceanic plankton**. The goal of the project is to combine cutting-edge single-cell imaging techniques (3D electron microscopy, nanoSIMS, X-ray fluorescence) with proteomics to decipher the functioning and physiology of planktonic symbiosis. The candidate will particularly focus on the key proteins that are involved in the metabolic interactions between the host and its symbiotic microalgae. To know more about the project's topic, some publications are available on [Research Gate](#) and below.

Decelle J, Colin S, Foster RA. Photosymbiosis in marine planktonic protists. *Marine Protists: Diversity and Dynamics* (eds Ohtsuka, S., Suzaki, T., Horiguchi, T., Suzuki, N. & Not, F.) 465–500 (Springer, **2015**)

Decelle J (2013) New perspectives on the functioning and evolution of photosymbiosis in plankton: Mutualism or parasitism? *Communicative & Integrative Biology* 6:4

Decelle J, Probert I, Bittner L, Desdevises Y, Colin S, de Vargas, Galí M, Simó R, Not F (**2012**) An original mode of symbiosis in open ocean plankton. *Proceedings of the National Academy of Sciences (PNAS)* 109: 18000-18005

Requirements and qualifications:

- PhD (or final stages of PhD) in a relevant biological subject (e.g. cellular biology, microbial ecology, physiology, proteomics)

- The candidate should have a good academic track record, and solid background and research experience in **bioinformatics (proteomics, transcriptomics)**, and eventually mass spectrometry.

- Knowledge and research experience in microalgae or plants, photosynthesis, plastid physiology, oceanic plankton, would be considered an advantage.

-. Excellent written and oral communication skills and proficiency in English are required. French is optional.

- The candidate should have good interpersonal skills and ability to work independently, but also to interact well within a research group.

Application:

Please send to johan.decelle@cea.fr and johan.decelle@ufz.de a single PDF containing:

- a **full CV** (including a list of publications)

- at least two **letters of reference** with contact details

- a 1-2 page **cover letter** explaining your research interests and goals, how your skills meet the requirements, and what you can bring in the project.

To know more about the research Institutions:

University of Grenoble: <https://www.univ-grenoble-alpes.fr/en/main-missions/about-us/>

Biosciences and Biotechnology Institute of CEA Grenoble: <http://big.cea.fr/drf/big/english/>