

PhD Fellowship Opportunity at CRAG-Barcelona **Environmental control of plant and algae growth**

We are offering a **4-year PhD fellowship** associated to the Research Project “**Convergence of Light and Retrograde Pathways For Photoprotection**” (**PHOTO-WAYS**) (Reference: PID2024-161051NB-I00)

The successful candidate will join the [Environmental control of plant and algae growth](#) research group led by **Dr. Elena Monte** at the **Centre for Research in Agricultural Genomics (CRAG)**, Barcelona.

Dates

- Application deadline: October 10, 2025
- Start Date: November 1, 2025 (or as soon as possible thereafter)

The Project

This PhD project will investigate the mechanisms of **cell division and expansion** that drive **light-regulated cotyledon development** in *Arabidopsis thaliana*. Cotyledon expansion will be used as a model to explore the crosstalk between photoreceptor and chloroplast signaling, with a focus on tissue specificity and the identification of novel regulatory factors. The research will integrate a wide range of approaches, including:

- Cellular and molecular biology
- Biochemistry
- Single-cell genomics
- Computational biology

Our candidate

We are looking for a highly motivated candidate with a strong interest in:

- Plant molecular biology, biochemistry, and computational biology
- Plant development, light signaling, and intracellular communication
- Regulation of responses to environmental stress

Requirements: MSc degree (or equivalent to 300 ECTS credits)

Interested?

Please contact us at:

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