

I2BC, Gif sur Yvette - PhD grant 2021-2024 - Call for applications

Mechanisms of stress adaptation in the nematode *C. elegans*

The [Autophagy and Development](#) team and the [Laboratoire commun DIAGNOXI](#) are inviting applications for a three-year PhD grant starting in **December 2021**.

The PhD grant will be operated under a research partnership between both institutions with a CIFRE agreement (Conventions Industrielles de Formation par la Recherche). The PhD candidate will work at the I2BC (Gif sur Yvette) on the mechanisms of resistance and adaptation to stress, under the supervision of [Renaud Legouis](#).

Using the nematode *C. elegans*, the team recently developed an acute heat stress model to study the cellular response mechanisms as well as the animal's adaptive capacities (Chen et al. *Autophagy facilitates mitochondrial rebuilding after acute heat stress via a DRP-1-dependent process*. J Cell Biol. 2021; 220 (4)).

The project will mainly use live imaging and genetic approaches to characterize the cellular response during stress and adaptation and to study the role of candidate genes during stress adaptation.

Applicants must hold a Master in Biology with Cell Biology specialization, and must have a good expertise in live microscopy and in vivo analyses. Experience with the *C. elegans* model is recommended but not mandatory.

Applications must include:

- A detailed CV and a cover letter;
- Detailed transcripts of master-level grades;
- A reference letter which must be sent directly and confidentially.

All documents must be sent as PDF files to renaud.legouis@i2bc.paris-saclay.fr by **September 27, 2021** latest. The subject of the mail must be "YOUR_NAME – PhD Grant Application". The first two items must be included in a single PDF file, following the order given above. The name of the file must be "YOUR_NAME –PhD Grant Application.pdf".