

# Roles of Methylation readers and interpreters in *Arabidopsis thaliana*

## Reading mRNA methylation: role of the Arabidopsis ECT proteins in the posttranscriptional control of gene expression in response to heat stress or accross development

### ABSTRACT

The Agropolis fondation output mobility grant will be dedicated to the international mobility of the PhD student in charge of the ECT2 project. J. Scutenaire will get the opportunity to spend a month at the school of life science (Univ. of Dundee, Scotland) in the laboratory of Pr. Gordon Simpson. During his stay he will run the cross-linking based in vivo purification of ECT2 containing protein complexes formed under normal and heat stress conditions in Arabidopsis. The following LC-MS/MS analyses will be run by the proteomic platform in Dundee before the student is taught by the host lab how to conduct quantitative analyses of the proteomic data. This grant will permit the completion in the best possible conditions, of objective 4b of the project. (Objective (4) decipher ECT2 molecular functions through the identification of ECT2 (b) protein partners under normal and heat stress conditions)

**Keywords :** Developing the plant of the future, Plant, Operation, Arabidopsis, Protein/proteomic, Stress, Arabidopsis (species), 1. Exclu de la photothèque

**Year :** 2015

**Project number :** 1502-003

**Type of funding :** AAP MOBILITE

**Project type :** AAP

**Research units in the network :**

**Start date :** 2016-02-01

**End date :** 2018-05-31

**Flagship project :** no

**Project leader :** Cecile Bousquet-Antonelli

**Project leader's institution :** CNRS

**Project leader's RU :** LGDP

**Budget allocated :** 9990 €

**Total budget allocated ( including co-financing) :** 9990 €

**Funding :** Labex