

IMAGEC

Improvement of MapMan to Analyze the Genome of Coffee.

ABSTRACT

The aim of this short term mission is to i) improve my bioinformatics skills to be able to manage large amount of RNAseq dataset that CoffeeAdapt Team will be generating within the next 4 years in the BREEDCAFS projects (European project H2020 started in June 2017) and ii) develop the already existing and internationally used MapMan tool, to integrate coffee Gene Ontology in order to decipher transcriptomic and metabolic pathways, correlate gene expression profiles to plant genotype and phenotype, and propose new molecular markers to improve coffee breeding programs.

As a plant physiologist, I will be the link between biologists and computer scientists, to ensure the continuity of experimental trials, from the field to the dataset analyses. This mobility will allow me to establish a durable collaboration with our partners in Germany (Usadel's lab), and in Ireland (Sulpice's Lab), world leaders in transcriptomic analysis.

Year : 2017

Project number : 1502-510

Type of funding : AAP

Project type : AAP MOBILITE

Research units in the network :

Start date : 2018-02-01

End date : 2019-01-31

Flagship project : no

Project leader : Sophie Leran

Project leader's institution : CIRAD

Project leader's RU : IPME-PHIM

Budget allocated : 5600 €

Total budget allocated (including co-financing) : 5600 €

Funding : Labex