

NRT1.1-induced ammonium toxicity

Elucidation of mechanism for ammonium toxicity caused by nitrate sensor NRT1.1/NPF6.3 in *Arabidopsis thaliana*

ABSTRACT

The general objective of the project is to investigate mechanisms determining nitrogen use efficiency in plants, through collaboration between the group of Dr. A. Gojon in BPMP and the group of Prof. H. Sakakibara at Nagoya University.

The experiments planned in Montpellier will be devoted to answer two specific questions : 1) does NRT1.1 acts in the roots or in the shoot to induce ammonium toxicity?, and 2) what is the relationship between NRT1.1-dependent ammonium toxicity and acidic stress?

Year : 2017

Project number : 1502-405

Type of funding : AAP

Project type : AAP MOBILITE

Research units in the network :

Start date : 2018-01-01

End date : 2018-12-31

Flagship project : no

Project leader : Alain Gojon

Project leader's institution : INRA-INRAE

Project leader's RU : BPMP

Budget allocated : 10800 €

Total budget allocated (including co-financing) : 10800 €

Funding : Labex