

Ad hoc support : MBSA

Molecular basis of a sustainable Agriculture

ABSTRACT

In the context of an expected population of 9 billion in 2050 and a clearly warming climate that threatens global food production, understanding the fundamental mechanisms that drive plant resilience to environmental stresses is a major challenge for tomorrow. Our scientific community is home to many laboratories that are international leaders in understanding the underlying molecular mechanisms responsible for plant adaptation to environmental stresses. Under the impetus of the project leader (Gabriel Krouk DR CNRS), four leading international researchers (two members of EMBO and two members of the NAS [National Academy of Science, USA]) have already agreed to be the guests of this symposium, which will be held in Montpellier on 5 and 6 May 2020. The topic will attract the regional, national and international communities during these two days to discuss the latest results concerning the mechanisms by which plants adapt their growth in response to a fluctuating environment. This international outreach will position Agropolis Fondation as a magnet for major scientific figures and an important centre for the development of molecular sustainable agriculture.

Keywords : Sustainable Agriculture, Systems Biology, Nutritional Biology, Developmental Biology, Plant Biology

Year : 2019

Project number : 1900-024

Type of funding : SP

Project type : PC

Research units in the network : diade Agap

Start date : 2020-01-01

End date : 2020-06-30

Flagship project : no

Project leader : Gabriel KROUK

Project leader's institution : CNRS

Project leader's RU : BPMP

Budget allocated : 5000 €

Total budget allocated (including co-financing) : 19542 €

Funding : labex

GOAL

The objective is to create a meeting of leading scientists in plant biology and to promote basic scientific research as a lever for the implementation of sustainable agricultural practices. Dr Rouached (co-organizer of this symposium) will organize the second edition of MBSA in his future university (Michigan State University-USA) in 2022. The initiation of the organization of this symposium will therefore have an assured international impact and will be sustainable. The initiation of this cycle of MBSA conferences in Montpellier will therefore have a maximum leverage effect on the funds allocated by the Agropolis foundation.