

Séminaire INTERNE

Les séminaires ont lieu sur le Campus Montpellier SupAgro/INRA
de La Gaillarde (2, place P. Viala Montpellier)

Ne pas diffuser à l'extérieur

Jeudi 04 février 2016
Bibliothèque IBIP (Bâtiment 7) à 14h00

Physiological and molecular responses of *Arabidopsis halleri* to multiple stressors

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(BPMP - Thèse 2ème année équipe Métaux)

Environmental stresses greatly affect plant growth, survival and reproduction, and ultimately yield. In the field, plants are often exposed to more than one abiotic and/or biotic stress. Recent studies suggest that combined stresses often have interactive effects that reduce or enhance the susceptibility of plants submitted to single stresses. The resulting environmental condition can thus be considered as a new stressful condition. Remarkably, extremophile plant species, which are well adapted to particular ecological environments characterized by a specific stressful condition (e.g. salinity, high heavy metals, cold) often show constitutive tolerance to multiple stresses not systemically encountered in their environment. Investigations of the physiological and molecular specificities of these species represent a venue for novelty in our understanding of plant response to multiple stressors. The objective of the present work is to characterize the responses of *Arabidopsis halleri*, which is tolerant and hyperaccumulator for zinc and cadmium, to multiple stressors. A comparative approach will be conducted using the non-tolerant closest relative species *Arabidopsis thaliana* and *Arabidopsis lyrata*. Based on recent findings molecular insight will focus on plant defensins PDF1 in plant response to the multiple stresses studied. Ongoing results on these different aspects will be presented.

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Séminaires prévus :

FEVRIER

Jeudi 11 février : Séminaires internes

Jeudi 18 février : Florent Pantin (contact : florent.pantin@supagro.inra.fr)