

Institut Jean-Pierre Bourgin

Séminaire

Lundi 10 décembre 2018, à 14h00

Pr. Gerhard Leubner

Royal Holloway, University of London, Egham, UK

SeedAdapt: A tale of two seeds with distinct dormancy, dispersal, transcriptomes, hormonomes, and stress responses

The aim of the SeedAdapt project (www.seedadapt.eu) is to elucidate the molecular mechanisms of fruit/seed-related early-life history traits that evolved in annual plant species as adaptations to abiotic stresses. Higher plant dispersal units - diaspores, here: fruits and seeds - support the distribution and early life history of the progeny. Our project will use a comparative approach to understand the dimorphic diaspore (fruit/seed) syndromes produced on the same plant of annual *Aethionema* species (sister of all core Brassicaceae, cabbage family) and provide distinct adaptations as a dormancy bet-hedging strategy. The availability of the *Aethionema arabicum* genome will facilitate our comparative investigation of the epigenomes, hormonomes and transcriptomes in relation to abiotic stress during sensitive developmental processes. Prof Gerhard Leubner, lead PI of SeedAdapt, has made important discoveries in the seed biology of wild, weed and crop species ([Gerhard Leubner webpage](#) & [Website Gerhard Leubner Lab](#)).

Invité par Annie Marion-Poll

Ce séminaire aura lieu dans l'Amphithéâtre Bât. 10