

Séminaire Biologie des Plantes

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

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ATTENTION: Jour et horaire inhabituels

Lundi 10 octobre 2011
Amphi 206 (Cœur d'Ecole) à 11h00

Elodie Marchadier
(University of Bristol UK)

**Role of two-components systems on stomatal aperture control in
Arabidopsis thaliana: study of cytokinin signalling in guard cells.**

Stomata are small pores allowing gas exchange and water loss in plants. They are found on the underside part of the leaves. Facing to changing environmental conditions, plants are able to modulate their water loss by adjusting their number of stomata and by controlling their aperture. We now have a good knowledge of the signals able to control stomatal aperture. However, how these signals are integrated in the cell to induce a unique response is still poorly understood.

Effect of cytokinins (phytohormones) on stomatal aperture is not straightforward and appears to be dependant of other stimuli. Cytokinin signalling characterization allows a better understanding of how cytokinin signal interacts with other stimuli and provides new insights to investigate signals integration in plants.

Calcium plays a crucial role in guard cell signalling and, at a greater extent, in signal transduction in the living world. Our recent work aiming to identify the major steps of Ca²⁺ signalling evolution in Eukaryotes will be briefly presented.

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