

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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Jeudi 02 février 2012
Amphi 206 (Cœur d'Ecole) à 14h00

Jürgen Kleine-Vehn

(Department of Plant Systems Biology, VIB, Universiteit Gent, Technologiepark 927, B-9052 Gent, Belgium)

Phytohormonal control of differential growth regulation

Multicellular organisms have arisen independently a number of times, leading to divergent life forms such as animals and plants. Due to their sessile lifestyle, plants have developed a remarkable plasticity for shaping their body plan to adapt to changes in their immediate environment. Most intriguingly, plants are characterized by a remarkable postembryonic growth and regenerative potential that is tightly controlled by phytohormones. The phytohormone auxin is a master regulator of plant growth. However, our global understanding of how small molecules, such as auxins, can carry the required information for shape regulation in plants is largely unknown. We are interested in the global understanding of differential growth regulation in plants. We investigate upstream and downstream components that execute or instruct auxin-dependent differential growth regulation on subcellular, cellular, tissue, and organ level. Recent advances of our laboratory will be discussed.

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