

Séminaire de Biologie des Plantes

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

Contact UMR B&PMP :

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Attention jour inhabituel

Vendredi 23 mai 2008
Amphi 206 (Cœur d'Ecole) à 14h00

Fernanda De Carvalho-Niebel

(Laboratoire des Interactions Plantes-Microorganismes - INRA-CNRS Toulouse)

Transcription regulation of early nodulin genes by *Rhizobium* Nod factors

Rhizobium lipo-chitooligosaccharides known as Nod factors (NF) play a key role in the establishment of the symbiotic interaction that leads to nodule development in legumes. NF signal perception and transduction involves multiple receptor-like kinases and oscillatory calcium changes that are necessary for the subsequent transcriptional activation of early nodulin genes. We have focused our studies on the molecular dissection of the regulatory mechanisms underlying host gene expression by symbiotic NFs, in root hairs of the model legume *Medicago truncatula*. Functional promoter studies of the well characterized NF-elicited *MtENOD11* gene has led to the identification of the first "NF-box" responsive sequence sufficient to direct NF-mediated expression in root hairs. Following a yeast one-hybrid screen of root hair-specific cDNA libraries, three NF-box-interacting factors belonging to a so far uncharacterized group of the AP2/ERF transcription factor family have been identified. These NF-box binding factors represent novel NF signaling components probably involved in the fine-tuning of NF-mediated expression of host genes.

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Équipe *Intégration*

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SEMINAIRES A VENIR :

- Jeudi 29 mai : Jörg Kudla, contact Jean-Baptiste Thibaud (thibaud@supagro.inra.fr)
- Jeudi 5 juin : J. Fabre et M. Dauzat (Présentation de la plate-forme "Phenopsis" : applications expérimentales et base de donnée) contact Christine Granier (granier@supagro.inra.fr)
- Jeudi 12 juin : Laurent Chatre (présentation sur les mécanismes de transport entre membrane et rôle des SNAREs), contact Nadine Paris (paris@supagro.inra.fr)