

# 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 :

Sabine Zimmermann (zimmerma@supagro.inra.fr)

Marc Lepetit (lepetit@supagro.inra.fr.inra.fr)

Corinne Dasen (dasen@supagro.inra.fr)

Chantal Baracco (baracco@supagro.inra.fr)

Jeudi 04 septembre 2008  
**Amphi 208 (Cœur d'Ecole) à 14h00**

**Tzyy-Jen Chiou**

Agricultural Biotechnology Research Center, Academia Sinica, Taiwan

Regulatory Network of MicroRNA399 and *PHO2* by Systemic Signaling

We have previously demonstrated that miR399s control phosphate (Pi) homeostasis by regulating the expression of a ubiquitin-conjugating E2 enzyme (*UBC24/PHO2*) in *Arabidopsis*. Changes in miR399-dependent *PHO2* gene expression modulate Pi uptake, allocation and remobilization. More recently, we provided evidence that miR399s are able to move in the phloem stream and across grafting junctions from the scions overexpressing miR399 to the wild-type rootstocks. Movement of miR399s serves as a long-distance signal to report and balance the Pi status between shoots and roots. The regulation of miR399 and *PHO2* via long-distance communication in response to Pi deficiency will be discussed.

Contact :

Jean-Francois Briat

Biochimie et Physiologie Moléculaire des Plantes

Bat 7

Place Viala

34060 Montpellier cedex 1

France

NEW PHONE : +33(0)499 61 23 71

fax +33(0)467 52 57 37

<http://www.montpellier.inra.fr/ibip/bpmp>

**IMPORTANT : NEW EMAIL ADDRESS**

briat@supagro.inra.fr