



## **Third UPRA Meeting on Plant Integrative Biology**

UPRA (European Open Laboratory UPSC and INRA)

**INRA Nancy Research Centre, Champenoux, France**

25 – 27 November 2009

### **Scientific Programme**



**Meeting Chairs:** Francis Martin & Catherine Bellini

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## Day 1 – Wednesday 25<sup>th</sup> November

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8.30 onwards	<b>Registration</b>
9.30 – 9.35	<b>Francis Martin:</b> Welcome to the 3rd UPRA Meeting
9.35 – 9.50	<b>Frédéric Lapeyrie:</b> Introduction to INRA-Nancy Centre
9.50 – 10.05	<b>Erwin Dreyer:</b> Introduction to the RP2E Doctoral School
10.05 – 10.20	<b>Göran Samuelsson &amp; Ove Nilsson:</b> Introduction to UPSC
10.20 – 10.40	<i>Coffee &amp; Tea</i>
<b>Session 1</b>	<b>Growth, Leaf Development and Metabolism</b>
10.40 – 11.05	<b>Olivier Loudet</b> (INRA-Versailles) Natural variation for growth and the interaction with the environment in <i>Arabidopsis thaliana</i>
11.05 – 11.30	<b>Maria E Eriksson</b> (UPSC) The <i>early bird 1</i> reveals a new cog in the circadian clock
11.30 – 11.55	<b>Göran Samuelsson</b> (UPSC) Protons in Photosystem II: 2 ways to escape
11.55 – 12.20	<b>Nicolas Rouhier</b> (Nancy Université - INRA) The role of plant glutaredoxins with a CGFS active site in iron-sulfur assembly
12.20 – 12.45	Discussion
12.45 – 14.00	<i>Lunch</i>
14.00 – 14.25	<b>Markus Grebe</b> (UPSC) Sterol function during cytokinesis in <i>Arabidopsis</i>

- 14.25 – 14.50 **Thierry Gaudé** (ENS Lyon)  
Role of the sorting nexin (SNX) gene family in *Arabidopsis* development
- 14.50 – 15.15 **Sylvie Dinant** (INRA – Versailles)  
Genomics and transcriptomics for investigating phloem functions
- 15.15 – 15.45 *Coffee & Tea*
- 15.45 – 16.10 **Per Gardeström** (UPSC)  
Leaf senescence in *Arabidopsis*
- 16.10 – 16.35 **Gunnar Wingsle** (UPSC)  
The Mediator complex in plants
- 16.35 – 17.00 **Anne Krapp** (INRA Versailles)  
Adaptation of plants to nitrogen availability: Which role play NIN like proteins (NLP)
- 17.00 – 17.30 *Discussion*
- 17.30 – 18.30 **UPRA Joint Committee Meeting**
- 18.30 – 22.00 *Apéritif & Buffet at INRA Restaurant*

## Day 2 – Thursday 26<sup>th</sup> November

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**8.30 onwards**                      **Registration**

**Session 2**                      **Understanding & Engineering Wood Structures**

9.00 – 9.25                      **Martine Gonneau** (INRA Versailles)

Dynamics and light regulation of the cellulose synthesis machinery

9.25 – 9.50                      **Ove Nilsson** (UPSC)

Regulation of vascular cambium identity and activity

9.50 – 10.15                      **Richard Sibout** (INRA Versailles)

The genetic control of sclerenchyma differentiation: from dicots to monocots

10.15 – 10.45                      *Coffee & Tea*

10.45 – 11.10                      **Björn Sundberg** (UPSC)

Unravelling wood cell wall modifications – functional analysis of sucrose synthase

11.10 – 11.35                      **Philippe Label** (INRA Orléans)

Microgenomics of the cambial meristem of *Populus*

11.35 – 12.00                      **Thomas Moritz** (UPSC)

Role of gibberellins during elongation growth in *Populus*

12.00 – 12.25                      **Pelle Ingvarsson** (UPSC)

Dissecting the genetic basis of adaptation to local photoperiod in *Populus tremula*

12.30 – 13.45                      *Lunch*

### **Session 3      Genomics & Genetics of Trees**

13.45 – 14.10    **Rishi Bhalerao** (UPSC)

Genetic framework regulating activity-dormancy transition in perennial trees

14.10 – 14.35    **Torgeir Hvidsten** (UPSC)

A systems biology approach to model the transcriptional network in trees

14.35 – 15.00    **Véronique Jorge** (INRA Orléans)

Comparative genetic mapping in *Populus* spp.

15.00 – 15.25    **Christophe Plomion** (INRA Bordeaux)

Plasticity and diversity for forest tree adaptation to climatic changes

15.30 – 16.00    *Coffee & Tea*

### **Session 4 – Plant-Microbe Interactions**

16.00 – 16.25    **Judith Richter** (INRA Nancy Université)

The ectomycorrhizal fungus *L. bicolor* stimulates lateral root formation in both non-host *A. thaliana* and host *P. tremula* x *P. alba* plants through auxin signaling pathway.

16.25 – 16.50    **Sébastien Duplessis** (INRA Nancy Université)

The poplar-rust interaction through the lens of genomics: an emerging model pathosystem in forest pathology

16.50 – 17.15    **Patricia Faivre-Rampant** (INRA Evry)

The rust resistance gene cluster and the identification of a major gene controlling a quantitative trait of rust resistance in poplar

17.15 – 18.00    **Discussion**

19.30 – 22.30    *Conference Dinner (Nancy Downtown Restaurant)*

**Day 3 – Friday 27th November**

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**Session 5 – Root Development and Metabolism**

9.00 – 9.25 **Karin Ljung** (UPSC)

Regulation of auxin and cytokinin metabolism during *Arabidopsis* root development

9.25 – 9.50 **Catherine Bellini** (UPSC)

Phenotypic plasticity of adventitious rooting is controlled by complex regulation of ARF transcripts and miRNA abundance

9.50 – 10.15 **Ulrika Ganeteg** (UPSC)

Amino acid transporters that mediate root amino acid uptake

10.15 – 10.45 *Coffee & Tea*

10.45 – 11.10 **Jonathan Plett** (Queen's University)

Mutant mining in an activation tagged population of Poplar: The progress and future promise for Poplar research

11.10 – 12.00 **Catherine Bellini** (UPSC)

Future UPRA Plans & Closure Remarks

12.00 – 13.30 *Lunch*

14.00 *Departure*