

*DigiPlante Workshop 2014*  
*(6th Edition)*

*Perche, 3-4 July 2014*

----- *Program - 3 July* -----

***Session 1: Modelling (and more)***

Chair: V. Le Chevalier

10:00 Paul-Henry Cournède  
*The Future of DigiPlante*

10:30 Etienne Claverie  
*Integration of physical, chemical and biological properties of the soil to simulate soil-plant interactions and long term evolutions*

11:00 Robert Beyer  
*A teleonomic model for crown dynamics with respect to light and water availability*

11:30 Mingchao Zeljkovic  
*Optimisation des plans de traitement en radiothérapie grâce aux dernières techniques de calcul de dose rapide*

12: Lunch

***Session 2: Statistics (1): Data***

Chair: Y. Chen

14:00 Charlotte Baey  
*A Statistical framework for genotypic differentiation with plant models*

14:30 Véronique Le Chevalier  
*Application of practical and structural identifiability methods for biological models*

15:00 Xiangtuo Chen  
*Multi Scenario Parameter Estimation*

15:30 Thomas Galinier  
*Multifactorial analysis of crop performance under resource constraint*

16:00 Coffee Break

## *Session 2: Statistics (2): Methods and Numerics*

Chair: C. Baey

16:30 Gautier Viaud and Yuting Chen

*Generic Bayesian estimation with MCMC in Pygmalion*

17:00 Samis Trevezas

*Bayesian estimation for the GreenLab model adapted to the sugar beet plant*

17:30 Benoît Bayol

The Future of Pygmalion

18:00 *Conclusion*