



EPSO Workshop

Plant Productivity for Food

- from Models to Crops

Het Pand, Ghent, Belgium
7 - 8 September 2009



Outline:

The aim of the 'Plant Productivity for Food' workshop is to serve as a think-tank on how basic information on mechanisms that control plant growth and tolerance to abiotic stress can be best translated to improve crop productivity. Participants will be from academia as well as from private enterprises. The expected outcome is a white paper describing the current state of the area and suggestions for new directions in research within Europe at European and National level.

Size of the meeting: maximum 55 attendees

Organisers: Chiara Tonelli (Università degli studi di Milano, IT) and Dirk Inzé (VIB, University of Ghent, BE)

Draft Programme (updated 5 August 2009)

Day 1

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| 9:00 - 10:00 | Registration and coffee |
| 10:00 - 10:15 | Welcome and Introduction - Karin Metzloff (BE) |
| 10:15 - 12:15 | Theme 1: Mechanisms controlling plant growth under normal conditions
Central metabolism - Mark Stitt (DE) - 25 min + 5 min
Cell cycle - Dirk Inzé (BE) - 25 min + 5 min
Photosynthesis - Christoph Peterhänsel (DE) - 25 min + 5 min
Rice - Xing-Wang Deng (USA-China) - 25 min + 5 min |
| 12:15 - 13:30 | Lunch |
| 13:30 - 14:30 | Theme 2: Stress tolerance (part 1)
Drought stress - Chiara Tonelli (IT) - 25 min + 5 min
Plant senescence - Vicky Buchanan-Wollaston (UK) - 25 min + 5 min |
| 14:30 - 15:00 | Break |
| 15:00 - 16:30 | Theme 2: Stress tolerance (part 2)
Nitrogen use efficiency - Bertrand Hirel (FR) - 25 min + 5 min
Phosphate - Javier Paz-Ares (ES) - 25 min + 5 min
Shade avoidance - Ida Ruberti (IT) - 25 min + 5 min |
| 16:30 - 17:00 | Break |

- 17:00 - 18:00 **Theme 3: What can biodiversity teach us?**
 Heterosis - *Avi Levy (IL)* - 25 min + 5 min
 Wheat Breeding - *Andreas Börner (DE)* - 25 min + 5 min
- 18:00 - 19:00 **Discussion**
- 20:00 **Workshop dinner, Ghent Marriott Hotel, Korenlei 10, Ghent**
- Day2**
- 9:00 - 10:30 **Theme 4: Improving crop productivity: what has been achieved and what is needed? An academia perspective**
 Corn - *Michele Morgante (IT)* - 25 min + 5 min
 Triticeae - *Peter Langridge (AUS)* - 25 min + 5 min
 Systems biology as an approach - *Jim Beynon (UK)* - 25 min + 5 min
- 10:30 - 11:00 **Break**
- 11:00 - 12:15 **Theme 5: Crop productivity from an industry perspective - How to translate basic findings to improve crop productivity? (part 1)**
 Syngenta - *Gerhard Steinrücken (SE)* - 20 min + 5 min
 Bayer - *Michael Metzloff (BE)* - 20 min + 5 min
 Nestle - *Pierre Broun (FR)* - 20 min + 5 min
- 12:15 - 13:15 **Lunch**
- 13:15 - 15:00 **Theme 5: Crop productivity from an industry perspective - How to translate basic findings to improve crop productivity? (part 2)**
 BASF - *Jurgen Logemann (DE)* - 20 min + 5 min
 BIOGEMMA - *Pascual Perez (FR)* - 20 min + 5 min
 Monsanto - *Jacqueline Heard (USA)* - 20 min + 5 min
 Mendel - *Peter Repetti (USA)* - 20 min + 5 min
- 15:00 - 15:30 **Break**
- 15:30 - 17:30 **Round table discussions**
 Drafting of a white paper on 'A road map to improve European Crop Productivity', including identifying priority research objectives.
- 17:30 **Departure**