

# Recent progress in drought tolerance

*from genetics to modelling*

***Le Corum - Montpellier - France***

***8 & 9 June 2015***



***Pre-Program***

[https://colloque.inra.fr/drought-tolerant\\_plants\\_2015](https://colloque.inra.fr/drought-tolerant_plants_2015)

# Pre-Program June 8<sup>th</sup>, 2015

8:30 - 8:45

## Opening

8:45 - 10:30

### Session 1:

## Coping with drought in crop improvement : a global perspective

Scenarios for drought in Europe

E. Ferreres, *Universidad de Cordoba, Spain*

A multi scale multi environment approach

F. Tardieu, *INRA, France*

10:30 -12:30

### Session 2:

## Traits-base strategies for dealing with drought

Roots growth and architecture: genetic variability, consequences, modelling

X. Draye, *Université Catholique de Louvain, Belgium*

- Selected talk 1
- Selected talk 2

Leaf growth and architecture: genetic variability, consequences, modelling.

B. Parent, *INRA, France*

- Selected talk 1

12:30 -14:00

LUNCH time

Grain abortion : modelling and genetic variability

CH. Messina, *Pioneer, USA*

- Selected talk 1
- Selected talk 2

14:00 - 17:30

Transpiration efficiency : genetic variability across species

WJ. Davies, *Lancaster University, England*

- Selected talk 1

Genetic variability of metabolome under drought, consequence on yield

Y. Gibon, *INRA, France*

17:30 - 18:00

### Poster session 3:

## Variation for target traits and phenotyping methods

# Pre-Program June 9<sup>th</sup>, 2015

9:00 -12:00 Session 4:  
**Dealing with Genotype x Environment interaction**

## QTLxE in networks of field experiments

F. van Eeuwijk, *Wageningen Universiteit, Netherlands*

## Investigate unstability of yield-related QTL in wheat

D. Fleury, *ACPF, Australia*

- Selected talk 1
- Selected talk 2

## Modelling G x E x M with explicit genotypic information

G. Hammer, *University of Queensland, Brisbane, Australia*

- Selected talk 1

12:00 -12:30 Poster session 5:  
**QTL, positional cloning, allelic diversity and breeding application**

12:30 -14:30 LUNCH time

14:30 -17:00 Session 6:  
**Breeding for drought, strategies, choices**

## Visions for wheat vs maize

R. Tuberosa, *Università di Bologna, Italy*

- Selected talk 1
- Selected talk 2
- Selected talk 3
- Selected talk 4

17:00 - 18:30 Panel of discussion:  
**Designing new variety for drought-prone environments**

- 4 key participants

**18:30 Closing**

June 12<sup>th</sup> : 9:00 - 17:00 Conference extension/Technical session  
Phenotyping for the responses to environmental conditions