

From Seed to Pasta: the Durum Wheat Chain

Bologna (Italy) • June 30 - July 3, 2008

Symposium Program

30 June 08

8.30 *Registration and Poster setup*

Opening session E. Borasio, G. T. Scarascia Mugnozza

9.15- 10.00 Welcome from Minister of Agriculture, Regione Emilia Romagna
Representative and Organizers

10.00-10.20 **M. Montanari** - *The history of pasta.*

10.20-10.40 **C. Cannella** - *Nutritional characteristics of pasta.*

10.40-11.00 **R. Rizzo** - *What future for pasta?*

11.00-11.20 **E. Porceddu, L. Rossi and A. Blanco** – *Evolution of durum wheat breeding in Italy.*

11.20-11.40 *Coffee break*

11.40-12.00 **T. Hall** – *Title to be announced*

12.00-12.20 **D. Habash** - *EU projects to unravel drought resistance in durum wheat.*

12.20-12.50 **C. Feuillet and K. Eversole** – *A glimpse into the impossible. Perspectives in wheat genomics research.*

13.00-14.00 *Lunch*

Session 1: Genomics. M. Morgante, J. Dvorak

14.00-14.30 **B. S. Gill** - *Integrated physical and genetic map of chromosome 3A short arm of wheat and its applications in marker-assisted breeding and gene discovery.*

14.30-15.00 **J. Dvorak** - *The wheat genetic diversity map.*

15.00-15.30 **J. Dolezel** - *Development of chromosome genomics in wheat.*

15.30-15.50 **M. Parry** - *TILLING in durum wheat.*

15.50-16.00 *Discussion*

16.00-16.40 *Coffee break and Poster viewing*

Session 2: QTLs and Marker-Assisted Selection. R. Tuberosa, P. Langridge

16.40-17.10 **P. Langridge** – *Genomics assisted breeding of wheat.*

17.10-17.40 **R. Tuberosa** - *Searching for broad-spectrum QTLs for tolerance to abiotic and biotic stress in durum wheat.*

17.40-18.00 **H. Salvo-Garrido** - *Marker-assisted selection and graphical genotyping. A strategy to introgress imidazolinone resistance genes into elite cultivars.*

18.00-18.20 **P. Galeffi, A. Latini, M. Sperandei, C. Cantale, M. Iannetta and K. Ammar** - *TdRF1, a DREB homologue in durum wheat, as a possible marker for response to water stress.*

18.20-18.30 *Discussion*

18.30-19.30 **Poster viewing**

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Session 3: Genetic Resources and Use of Wild Relatives. F. Salamini, T. Fahima

- 8.30-9.00 **F. Salamini** - *Genetics and Geography of wild cereal domestication in the Near East.*
9.00-9.30 **T. Fahima** - *From genetic diversity to map-based cloning in wild emmer wheat.*
9.30-9.50 **T. Payne** - *Global aspects of conservation and utilization of durum/tetraploid wheat genetic resources.*
9.50-10.00 *Discussion*

10.00-10.30 *Coffee break*

Session 4: Breeding and Agronomy. E. DeAmbrogio, C. Royo

- 10.30-11.00 **K. Ammar and R. J. Peña** - *Advances in durum breeding at CIMMYT.*
11.00-11.30 **E. DeAmbrogio** - *“Produttori Sementi” breeding for the durum-pasta production chain.*
11.30-11.50 **J. M. Clarke** - *Durum breeding in North America.*
11.50-12.10 **I. Ortiz-Monasterio** - *Changes in nitrogen use efficiency in CIMMYT’s durum wheat.*
12.10-12.20 *Discussion*

12.20-13.30 Poster viewing

13.30-14.30 *Lunch*

Session 5: Abiotic stresses and yield physiology. E. Porceddu, M. Reynolds

- 14.30-15.00 **M. Reynolds** - *Drivers of yield under drought and successful breeding applications.*
15.00-15.20 **C. Royo** - *Biomass partitioning and grain filling of durum wheat adapted to Mediterranean environments.*
15.20-15.40 **M. Nachit** - *Durum breeding for drought tolerance using tools of stress physiology and molecular markers.*
15.40-16.00 **R. A. Hare, R. A. James, S. Huang, C. S. Byrt, E. Lagudah, M. P. Lindsay, W. Spielmeyer, A. J. Rathjen and R. Munns** - *Breeding for salt tolerance in durum wheat.*
16.00-16.20 **L. Cattivelli** - *Genetics of durum wheat adaptation to stressful environments.*
16.20-16.30 *Discussion*

16.30-17.00 *Coffee break*

Session 6: Biotic stresses. E. Lagudah, R. Singh

- 17.00-17.30 **E. Lagudah** - *Reciprocal gains from disease resistance gene transfers between common and durum wheat.*
17.30-18.00 **R. Singh** - *Characterization and mapping of major genes for Leaf Rust resistance and breeding for minor gene based resistance to Leaf Rust, in durum wheat.*
18.00-18.20 **H. Buerstmayr** - *Resistance to Fusarium head blight in common and durum wheat.*
18.20-18.40 **G. H. J. Kema** - *Specificity of septoria tritici blotch towards durum wheat.*
18.40-19.00 **A. Yahyaoui, K. Ammar and M. Nachit** - *Breeding for global resistance to Stem Rust in durum wheat: Update on the Global Rust Initiative work in Ethiopia.*
19.00-19.10 *Discussion*

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Session 7: Nutritional quality. D. Lafiandra, W. Pfeiffer

- 8.30-9.00 **D. Lafiandra, F. Sestili, E. Botticella, G. Ferrazzano, M. Silvestri, R. Ranieri and E. DeAmbrogio** - *Approaches for the modification of starch composition in durum wheat.*
- 9.00-9.30 **I. Cakmak** - *Role of wild wheats in improving micronutrient concentrations of cultivated durum wheat.*
- 9.30-9.50 **W. Pfeiffer** - *Biofortification from a nutritional/health perspective.*
- 9.50-10.00 *Discussion*
- 10.00-10.30 *Coffee break*

Session 8: End-Use Quality. M. G. D'Egidio, A.Visconti

- 10.30-11.00 **B. A. Marchylo and L. M. Schlichting** - *Durum wheat quality evaluation to meet customer requirements.*
- 11.00-11.30 **C. J. Pozniak** - *Genetics of Endosperm colour in durum wheat.*
- 11.30-12.00 **M. G. D'Egidio** - *Traditional aspects and new trends in durum wheat end products.*
- 12.00-12.20 **A. Visconti** - *Fusarium mycotoxins in the durum wheat-pasta production chain.*
- 12.20-12.40 **M. Carcea** - *Minerals and trace elements in Italian wheat and products.*
- 12.40-12.50 *Discussion*
- 12.50-14.00 *Lunch*
- 14.00-14.20 **E. Guimaraes** - *An international partnership platform to promote plant breeding, including durum wheat.*

Session 9: Pasta production. J. Abecassis, F. Pantò

- 14.20-14.50 **J. Abecassis, C. Barron, M. Chaurand, V. Lullien-Pellerin, X. Rouau and MF. Samson** - *Opportunities and limits to better exploit the durum wheat grain potential.*
- 14.50-15.20 **F. Pantò** - *Innovation and pasta-making technology.*
- 15.20-15.40 **C. M. Pollini** - *Process innovations for high-quality durum wheat products.*
- 15.40-15.50 *Discussion*
- 15.50-16.20 *Coffee break*

Session 10: Socio-economy of durum wheat production and processing. R. Ranieri, P. L. Pianu

- 16.20-16.50 **R. Ranieri** - *The pasta Barilla integrated production chain.*
- 16.50-17.10 **V. Lombardi** - *Breakdown and recomposition of the value chain.*
- 17.10-17.40 **J. E. Dexter** - *The continuing evolution of the Canadian durum wheat quality model and the Canadian quality assurance system in response to market requirements.*
- 17.40-18.00 **A. Laamari** - *Durum wheat status in low rainfall areas of Morocco. Socio-economic considerations.*
- 18.00-18.20 **P. L. Pianu** - *Development perspectives of durum wheat in the European Union.*
- 18.20-18.30 *Discussion*
- 18.30 **Presentation of the Produttori Sementi Poster Awards.**
Concluding remarks

02 July 08

21.00 Gala Dinner

(Optional with previous reservation)

03 July 08

Excursion to visit:

- *“Barilla” pasta factory in Parma*
- *“Società Produttori Sementi” research station and seed processing plant in Argelato (Bologna).*

(Optional with previous reservation)

04 July 08

Leisure excursion to Venice

(Optional with previous reservation)