From Seed to Pasta: the Durum Wheat Chain

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

Symposium Program at a Glance

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 and A. Pinto** – *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** – *Approaches to crop research in FP7.*
12.00-12.20 **D. Habash *et al.*** – *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.*

12.50-14.00 Lunch

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

14.00-14.30 **B. S. Gill *et al.*** – *Towards the Construction of a Sequence-ready Physical Map of the 3AS Chromosome Arm of Hexaploid Wheat.*
14.30-15.00 **J. Dvorak *et al.*** – *Wheat diversity map*
15.00-15.30 **J. Doležel *et al.*** – *Development of chromosome genomics in wheat.*
15.30-15.50 **M. A. J. Parry *et al.*** – *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 *et al.*** – *Searching for major QTLs for tolerance to abiotic and biotic stresses in durum wheat.*
17.40-18.00 **H. Salvo-Garrido *et al.*** – *Marker-assisted selection and graphical genotyping. A strategy to introgress imidazolinone resistance genes into elite cultivars.*
18.00-18.20 **P. Galeffi *et al.*** – *TdDRF1, 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 *et al.*** – *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, S. Dreisigacker *et al.*** – *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, R. J. Peña and W. H. Pfeiffer** – *Advances in durum wheat 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 **J.I. Ortiz-Monasterio *et al.*** – *Changes in nitrogen use efficiency in CIMMYT's durum wheat.*
12.10-12.20 *Discussion*

12.20-12.35 **J.W. van der Kamp** – *The HEALTHGRAIN project – new perspectives for healthy cereal foods.*

12.35-13.30 **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 breeding applications.*
15.00-15.20 **C. Royo *et al.*** – *Biomass partitioning and grain filling of durum wheat adapted to Mediterranean environments.*
15.20-15.40 **M. M. Nachit, J. Motawaj and N. Nserallah** – *Durum breeding for drought tolerance using tools of stress physiology and molecular markers.*
15.40-16.00 **R. A. Hare *et al.*** – *Breeding for salt tolerance in durum wheat.*
16.00-16.20 **L. Cattivelli *et al.*** – *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, H. Buerstmayr

17.00-17.30 **E. S. Lagudah *et al.*** – *Reciprocal gains from disease resistance gene transfers between common and durum wheat.*
17.30-18.00 **R. P. Singh, S. A. Herrera-Foessel and J. Huerta-Espino** – *Characterization and mapping of major genes and breeding for minor gene based resistance to leaf rust in durum wheat.*
18.00-18.20 **H. Buerstmayr *et al.*** – *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 *et al.*** – *Breeding for global resistance to stem rust in durum wheat: update on the Global Rust Initiative from Ethiopia.*
19.00-19.10 *Discussion*

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

8.30-9.00 **D. Lafiandra *et al.*** – *Approaches for the modification of starch composition in durum wheat.*
9.00-9.30 **I. Cakmak** – *Wild Wheats in Improving Micronutrient Concentrations of Durum Wheat*
9.30-9.50 **W. H. Pfeiffer** – *Breeding Crops for Better Nutrition*
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 *et al.*** – *Genetics of Endosperm colour in durum wheat.*
11.30-12.00 **M. G. D'Egidio** – *Tradition 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, F. Aureli and F. Cubadda** – *Minerals and trace elements in Italian wheat and products.*
12.40-12.50 *Discussion*

12.50-14.00 Lunch

14.00-14.20 **E. P. Guimarães** – *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 *et al.*** – *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 and GP. Bernardi** - *The Barilla Pasta 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 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

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20.30 ***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)