

# 1999 ITMI Public Workshop

24–28 August 1999  
Balletti Hotel, Viterbo ITALY

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## Arrival: Tuesday, 24 August

Registration  
Poster setup  
20:00 Welcome party

## Day One: Wednesday, 25 August

8:00 Poster setup  
8:30 Welcoming statements  
Introduction to the workshop  
Logistics announcements

8:45 **Session One: Functional Genomics I (EST projects)**  
*Chair: Jorge Dubcovsky, University of California–Davis, USA*

8.50 **Olin Anderson**, USDA-ARS-WRRC,  
Albany CA USA  
*US wheat EST development project*

9:15 **Gerry Lazo**, USDA-ARS-WRRC,  
Albany CA USA  
*Informatics issues for accessing and analyzing Triticaceae EST data*

9:40 **Peter Langridge**, University of Adelaide,  
AUSTRALIA  
*International Triticaceae EST Cooperative: Status*

10:00 BREAK/poster setup (30 min)

10:30 **Wolfgang Michalek**, IPK Gatersleben  
GERMANY  
*Barley EST sequencing and analysis at IPK*

11:00 **Nicola Pecchioni**, Istituto Sperimentale per la  
Cerealicoltura, ITALY  
*EST development in barley from a cold-induced cDNA library*

11:20 **Scott Tingey**, Dupont, Delaware USA  
*Dupont's wheat EST program*

11:45 Questions and discussion

12:10 LUNCH/poster viewing

14:00 **Session Two: Functional Genomics II (Global Plan of Action)**  
*Chair: Mike Gale, John Innes Centre, UNITED KINGDOM*

*Panel: Morning's speakers (Anderson, Lazo, Langridge, Michalek, Pecchioni, Tingey)*

### *Issues:*

- Integrating the US wheat EST project with other national and international projects
- Fair compensation for use of EST data
- Securing funding for other national efforts
- Technical strategies for enriching libraries for sequencing targets
- Informatics strategies for data handling, analysis, and display

15:55 BREAK/poster viewing (30 min)  
16:15 Discussion continued  
17:15 Visit to San Martino Abbey  
19:00 DINNER  
20:30 Coordinator business meeting (1.5 hours)  
ITMI Coordinators & Coordinator representatives

## Day Two: Thursday, 26 August

8:30 **Session Three: Physical Mapping of Wheat and Barley**  
*Chair: Jan Dvorak, University of California–Davis, USA*

8:40 **Kulvinder Gill**, University of Nebraska, USA  
*Flow sorting of wheat telosomes for whole arm libraries*

9:00 **Jorge Dubcovsky**, University of California–Davis, USA  
*BAC libraries of the Triticum monococcum and Hordeum vulgare genomes*

9:30 **Evans Lagudah**, CSIRO, Canberra ACT  
AUSTRALIA  
*The BAC library of the Aegilops tauschii genome*

9:50 **Hong-bin Zhang**, Texas A&M University, USA  
*Strategy for physical mapping with DNA fingerprinting technique*

10:20 BREAK/poster viewing (30 min)

10:50 DISCUSSION: Physical maps of wheat: Fantasy or reality?

12:10pm LUNCH/poster viewing

14:00 **Session Four: Marker Applications/Mapping and Map Applications**

*Chair: Enrico Porceddu, University of Tuscia, ITALY*

14:05 **Kevin Williams**, SARDI-FCPU, AUSTRALIA  
*Molecular markers: Practicalities of their development and use in resistance breeding*

14:25 **Mahinur Akkaya**, Middle East Tech. Univ., TURKEY  
*DNA fingerprinting of wheat varieties using microsatellite and AFLP markers*

14:45 **Andreas Börner**, IPK Gatersleben, GERMANY  
*Major gene and QTL mapping in rye (*Secale cereale* L.)*

15:05 BREAK/poster viewing

15:35 **Antonio Blanco**, University of Bari, ITALY  
*Mapping protein content QTLs in tetraploid wheats*

15:55 **Nils Stein**, Univ. of Zürich, SWITZERLAND  
*Towards the map-based cloning of the wheat leaf rust resistance gene *Lr10**

16:30 Departure to Caprarola  
Visit to Farnese Palace  
Social DINNER

## Day Three: Friday, 27 August

8:30 **Session Five: Genome Structure and Evolution**

*Chair: Renato D'Ovidio, University of Tuscia, ITALY*

8:35 **Catherine Feuillet**, University of Zurich, SWITZERLAND  
*High gene density is conserved at syntenic loci in small and large grass genomes*

8:55 **Scott Tingey**, Dupont, Delaware, USA  
*Comparative analysis of sequences between rice and maize*

9:15 **Mike Gale**, John Innes Centre, UNITED KINGDOM  
*What's Arabidopsis worth to wheat genetics?*

9:35 **Moshe Feldman**, Weizmann Inst., ISRAEL  
*Unequal RFLP among different genomes, chromosome groups, and chromosome regions in wheat*

9:55 **Jan Dvorak**, University of California–Davis, USA  
*Recombination between homoeologous chromosomes in wheat: Its distribution across chromosomes*

10:15 BREAK/poster viewing (30 min)

10:45 **DISCUSSION: Genome evolution: A factor in comparative functional genomics?**

12:10 LUNCH/poster viewing

14:00 **Session Six: Coordinators' Reports and New Directions for ITMI**

*Chair: Calvin Qualset, University of California, USA*

14:05 Overview of Coordinators' reports on mapping

14:30 Coordinators' report on new topics for coordination and new directions for ITMI

15:00 Open discussion

15:45 BREAK/poster dismantling (30 min)

16:15 Open discussion on plans for ITMI:

- Plant and Animal Genome Conference, January 2000
- Workshop in 2000: location and timing

17:00 Adjournment

DINNER

Evening free

## Day Four: Saturday, 28 August

8:00 Departure to Tarquinia for tour of historical sites from the Etruscan, Medieval, and Renaissance periods