

# 5 Plant GEMs

■ 11-14 October 2006, Venice, Italy

## Plant Genomics European Meetings

SECOND ANNOUNCEMENT

[www.plant-gems.org](http://www.plant-gems.org)

### INVITED SPEAKERS

**TOM BEECKMAN** (GENT, BELGIUM)  
**MARIA LUISA CHIUSANO** (NAPLES, ITALY)  
**RICHARD CLARKE** (TÜBINGEN, GERMANY)  
**PAOLO COSTANTINO** (ROME, ITALY)  
**CATHERINE FEUILLET** (CLERMONT FERRAND, FRANCE)  
**RICHARD FLAVELL** (THOUSAND OAKS, USA)  
**JORDI GARCIA-MAS** (LLEIDA, SPAIN)  
**JEAN CHRISTOPHE GLASZMANN** (MONTPELLIER, FRANCE)  
**NICK HARBERD** (NORWICH, UK)  
**STEFAN JANSSON** (UMEÅ, SWEDEN)  
**ANTOINE KREMER** (PIERROTON, FRANCE)  
**JUERGEN KROYMANN** (JENA, GERMANY)  
**HELGE KÜSTER** (BIELEFELD, GERMANY)  
**PETER LANGRIDGE** (ADELAIDE, AUSTRALIA)

**WILLIAM MARTIN** (DÜSSELDORF, GERMANY)  
**BLAKE MEYERS** (NEWARK, DE, USA)  
**MICHELE MORGANTE** (UDINE, ITALY)  
**HELGA NOWOTNY** (EUROPEAN RESEARCH COUNCIL)  
**GILES OLDROYD** (NORWICH, UK)  
**CHRISTIAN PATERMANN** (BRUXELLES, BELGIUM)  
**JOHAN PELEMAN** (WAGENINGEN, NETHERLANDS)  
**ANDY PEREIRA** (WAGENINGEN, NETHERLANDS)  
**MASSIMO PIGLIUCCI** (NEW YORK, NY, USA)  
**GAVIN RAMSAY** (DUNDEE, UK)  
**FRANCESCO SALAMINI** (LODI, ITALY)  
**JANE SILVERTHORNE** (WASHINGTON D.C., USA)  
**OLIVIER VOINET** (STRASSBOURG, FRANCE)  
**BEN VOSMAN** (WAGENINGEN, NETHERLANDS)  
**ROD WING** (TUCSON, USA)  
**MASAHIRO YANO** (TSUKUBA, JAPAN)  
**MARC ZABEAU** (GENT, BELGIUM)  
**QIFA ZHANG** (WUHAN, CHINA)

### WORKSHOPS SPEAKERS

CATHERINE FEUILLET, RICHARD FLAVELL, GIOVANNI GIULIANO,  
ROBERT HORSCH, PETER RUCKENBAUER, NILS STEIN,  
GÜNTHER STRITTMATTER, CHIARA TONELLI, MARC ZABEAU

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## WEDNESDAY, OCTOBER 11

15:30 - 18:00  
**OPENING SESSION**  
 Chair: **Francesco Salamini** and **Michele Stanca**

Welcoming address from the organisers and local authorities

**Opening keynote lecture: Richard Flavell** (Ceres Inc., Thousand Oaks, USA)  
 Discoveries of gene-trait associations for crop improvement using high-throughput genomics

**Catherine Feuillet** (INRA-ASP, Clermont Ferrand, France)  
 Triticeae genomics: bridging the gap for the advancement of essential crops for European science and economy

**Masahiro Yano** (NIAS, Tsukuba, Japan)  
 Uncovering genetic control of flowering time in rice

**Michele Morgante** (University of Udine, Italy)  
 Genome evolution, junk DNA and functional variation

Transfer to *Scuola Grande San Rocco* (Venice centre)

19:00 - 21:30 **Welcome reception at Scuola Grande San Rocco**

**Christian Patermann** (EU, Brussels, Belgium)  
 Plants for the Future in the 7<sup>th</sup> FWP



20:30 - 21:30  
**Concert at Scuola Grande San Rocco**

## THURSDAY, OCTOBER 12

08:30 - 10:40  
**Emerging genomics tools and platforms**  
 Chairs: **Maarten Koornneef** and **Riccardo Velasco**

**Rod Wing** (University of Arizona, Tucson, USA)  
 The *Oryza* map alignment project - A new platform for comparative evolutionary genomics

**Richard M. Clark** (Max Planck Institute, Tübingen, Germany)  
 The common sequence variation of *Arabidopsis thaliana* as revealed by whole genome resequencing arrays

**Blake Meyers** (University of Delaware, Newark, USA)  
 Deep transcriptional profiling of plant small RNAs

Two presentations selected from abstracts

11:00 - 13:00  
**Bioinformatics**  
 Chairs: **Klaus Mayer** and **Mario Pezzotti**

**Helge Küster** (University of Bielefeld, Germany)  
 Application of web-based expression profiling software to specify the genetic programme activated in legume root endosymbioses

**Maria Luisa Chiusano** (University "Federico II", Naples, Italy)  
 Bioinformatics for the structural and functional analysis of the tomato genome

Three presentations selected from abstracts

14:30 - 16:30  
**Genomes of model plants and crops**  
 Chairs: **Michel Caboche** and **Giovanni Giuliano**

**Giles Oldroyd** (John Innes Centre, Norwich, UK)  
 Sequencing the euchromatin of *Medicago truncatula*, a reference for legume biology

**Stefan Jansson** (University of Umeå, Sweden)  
 Genomics and *Populus* leaves

Three presentations selected from abstracts

**WORKSHOPS** (in parallel) 17:00 - 18:30

**EUROPEAN TRITICEAE GENOMIC INITIATIVE (ETGI)**  
 Moderators: **Catherine Feuillet** (INRA, Clermont Ferrand, France) and **Nils Stein** (IPK, Gatersleben, Germany)

**PUBLIC-PRIVATE COLLABORATIONS IN THE GENOMIC ERA**  
 Moderator: **Richard Flavell** (Ceres Inc., USA)  
 Panelists: **Giovanni Giuliano** (ENEA, Italy), **Robert Horsch** (Monsanto, USA), **Peter Ruckebauer** (EUCARPIA), **Günther Strittmatter** (KWS, Germany), **Chiara Tonelli** (University of Milan, Italy), **Marc Zabeau** (VIB/UGent, Belgium)



19:30 - 22:30  
**Free time in Venice**  
 Transportation will be provided

## FRIDAY, OCTOBER 13

08:30 - 10:30  
**Genomics of plant hormones and development**  
 Chairs: **Dirk Inzé** and **Paolo Costantino**

**Annals of Botany lecture: Nicholas Harberd** (John Innes Centre, Norwich, UK)  
 To grow or not to grow

**Tom Beeckman** (VIB/UGent, Gent, Belgium)  
 Genomics of root branching as strategy to reveal the auxin-cell cycle link in organogenesis

Three presentations selected from abstracts

11:00 - 13:00  
**Gene and genome evolution under domestication**  
 Chairs: **Ruth Bastow** and **Angelo Ramina**

**Francesco Salamini** (Technological Park, Lodi, Italy)  
 The A genome wheats

**Gavin Ramsay** (Scottish Crop Research Institute, Dundee, UK)  
 The domestication of potato

Three presentations selected from abstracts

14:30 - 16:30  
**Genomics of quantitative traits**  
 Chairs: **Olivier Voinnet** and **Mirella Sari Gorla**

**Peter Langridge** (ACPGF, Adelaide, Australia)  
 QTL, genomics and improving abiotic stress tolerance in wheat and barley

**Johan Peleman** (KeyGene, Wageningen, Netherlands)  
 Towards Breeding by Design: novel tools and methods for efficiently mapping traits

Three presentations selected from abstracts

17:00 - 19:00  
**Phenotypic plasticity**  
 Chairs: **Pablo Vera** and **Chiara Tonelli**

**Massimo Pigliucci** (Sunny-Stony Brook, New York, USA)  
 What we would really like to know (but don't) about phenotypic plasticity

**Olivier Voinnet** (CNRS, Strasbourg, France)  
 Genetics and genomics of microRNA-directed functions in plants

Three presentations selected from abstracts



20:30 - 22:30  
**Congress dinner (at Russott hotel)**

## SATURDAY, OCTOBER 14

08:30 - 10:30  
**Plant genetic resources and evolutionary taxonomy**  
 Chairs: **Raoul Bino** and **Stefania Grillo**

**Jordi Garcia-Mas** (IRTA, Barcelona, Spain)  
 Recessive resistance against plant viruses: characterization of the *nsv* locus in melon and colinearity with model plant species

**Ben Vosman** (Plant Research International, Wageningen, Netherlands)  
 Molecular phylogeny and evolution of tuber-bearing *Solanum* species

Three presentations selected from abstracts

11:00 - 13:00  
**Ecosystem genomics**  
 Chairs: **Javier Paz-Ares** and **Fabio Veronesi**

**Juergen Kroymann** (Max Planck Institute, Jena, Germany)  
 Plant-enemy interactions and the evolution of plant metabolic diversity

**EvoTREE NoE lecture: Antoine Kremer** (INRA, Pierroton, France)  
 Population genomics of apical bud phenology in European oaks

Three presentations selected from abstracts

14:30 - 16:40  
**Genomics for agriculture sustainability and food security**  
 Chairs: **Willem Stiekema** and **Enrico Porceddu**

**Qifa Zhang** (Huazhong Agricultural University, Wuhan, China)  
 Genomics-based strategies for the development of "green super rice"

**Jean C. Glaszmann** (INRA, Montpellier, France & CIMMYT, Mexico)  
 Unlocking genetic diversity for improving food crop adaptation

**Andy Pereira** (Plant Research International, Wageningen, Netherlands)  
 Improvement of water use efficiency in crop plants

Two presentations selected from abstracts

## PLANT GENOMICS EUROPEAN MEETINGS

The Plant Genomics European Meetings (Plant GEMs) is a forum and communication platform for European plant genome researchers. As such, the Plant GEMs is open to interested scientists from all over the world. Since the creation of the ERA-PG (European Research Area in Plant Genomics) network in 2004, Plant GEMs has played a major role in fostering new collaborations and in stimulating networking among national genomic programs.

The 2006 edition of Plant GEMs brings together renowned scientists and provides a unique opportunity to gauge the progress in plant genomics, a key research area for the future competitiveness and sustainability of the European agri-food production chain. In view of the launching of the FP7, this fifth edition of Plant GEMs is strategically positioned to offer an update on the latest news from Brussels and to provide the opportunity for launching networking activities necessary to meet the first call of FP7. The Strategic Research Agenda of "Plants for the Future" will also be presented: this Technology Platform will play a key role in managing future research projects of plant genomics in Europe. Furthermore, Plant GEMs opens the space for community organized workshops covering several aspects of plant genomics activities.

### PROGRAM BOARD MEMBERS

**RUTH BASTOW** (UNITED KINGDOM)  
**RAOUL BINO** (NETHERLANDS)  
**MICHEL CABOCHÉ** (FRANCE)  
**DIRK INZÉ** (BELGIUM)  
**MAARTEN KOORNEEF** (GERMANY)  
**KLAUS MAYER** (GERMANY)  
**JAVIER PAZ-ARES** (SPAIN)  
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**ROBERTO TUBEROSA** (ITALY)  
**PABLO VERA** (SPAIN)  
**OLIVIER VOINNET** (FRANCE)

### LOCAL ORGANISERS

**PAOLO COSTANTINO** (UNIVERSITY "LA SAPIENZA", ROME)  
**GIOVANNI GIULIANO** (ENEA, ROME)  
**LUIGI MONTI** (UNIVERSITY OF NAPLES)  
**MICHELE MORGANTE** (UNIVERSITY OF UDINE)  
**ENRICO PÈ** (UNIVERSITY OF MILAN)  
**MARIO PEZZOTTI** (UNIVERSITY OF VERONA)  
**ENRICO PORCEDDU** (UNIVERSITY OF TUSCIA, VITERBO)  
**ANGELO RAMINA** (UNIVERSITY OF PADOVA)  
**FRANCESCO SALAMINI** (TECHNOLOGICAL PARK, LODI)  
**MICHELE STANCA** (INST. OF CEREAL PROD., FIORENZUOLA D'ARDA)  
**ROBERTO TUBEROSA** (UNIVERSITY OF BOLOGNA)  
**RICCARDO VELASCO** (AGRICULTURAL INST., S.MICHELE ALL'ADIGE)

### SCIENTIFIC SECRETARIAT

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17:00 - 19:00  
**Closing Session**  
 Chairs: **Roberto Tuberosa** and **Felice Cervone**

**Closing keynote lecture: William Martin** (University of Düsseldorf, Germany)  
 Endosymbiosis and endosymbiotic gene transfer: the last four billion years have been great, but what have organelle genomes done for us lately?

### OPPORTUNITIES FOR INTERNATIONAL COLLABORATIONS IN PLANT GENOMICS

**Jane Silverthorne** (National Science Foundation, Washington D.C., USA)  
 A US perspective

**Peter Langridge** (AFPGRC, Adelaide, Australia)  
 Enhancing delivery of genomics through the CGIAR

**Helga Nowotny** (European Research Council)  
 The ERC: From caterpillar to butterfly

**Paolo Costantino** (University "La Sapienza", Rome, Italy)  
 Italy in the European context

**Marc Zabeau** (VIB/UGent, Gent, Belgium)  
 The European perspective from the Technology Platform "Plants for the future"

19:00 - 19:15 **Closing ceremony**

**5** **Plant GEMs**  
 Russott hotel  
 Venice - San Giuliano  
 More information  
 and on line registration at:  
[www.plant-gems.org](http://www.plant-gems.org)