

# THE FUTURE OF PLANT GENOMES. HARVESTING GENES FOR AGRICULTURE

**PROGRAM**

COSMOCAIXA . C/ ISAAC NEWTON, 26. BARCELONA

**Tuesday, October ,9<sup>th</sup>, 2012****9:00**

Welcome

**Ignasi López, "la Caixa"**  
**Montserrat Vendrell, Biocat**  
**Pere Puigdomènech, CRAG****9:20 SESSION 1****ANALYSIS OF CEREAL  
GENOMES****Genome Sequence-Based  
Improvement in Wheat: from  
Vision to Reality.****Catherine Feuillet**  
INRA Clermont-Ferrand, France**10:15****Structural Variation in Maize:  
Consequences and  
Opportunities.****Patrick Schnable**  
Iowa State University, USA**11:10** Coffee break**11:40****Mechanisms, Specificities and  
Rates of Local Genome  
Rearrangement in the Grasses****Jeff Bennetzen**  
University of Georgia, USA**12:35****Genomics-based Barley  
Biology and Crop  
Improvement Now****Nils Stein**  
IPK Gatersleben, Germany**13:30** Lunch**15:00****The Plant Pan-Genomes:  
from One for All to All for  
One****Michele Morgante**  
Università di Udine, Italy**15:55** Coffee break**16:15****Endlessly Repetitive  
Genomes: Where Zippers Jam****Alan Schulman**  
MTT & University of Helsinki,  
Finland**17:15****Open Debate****18:30**Visit to CosmoCaixa and the  
3D Planetarium**19:45**

Dinner

B-DEBATE IS AN INITIATIVE OF:



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**Wednesday, October ,10<sup>th</sup>, 2012****9:00 SESSION 2****BIOINFORMATICS IN  
GENOME ANALYSIS****How Much Computing  
Does Genome Analysis  
Require?****Ivo Gut**  
CNAG, Barcelona, Spain**9:55****Interrogating RNA  
Heterogeneity with Next  
Generation Instruments****Roderic Guigó**  
CRG, Barcelona, Spain**10:50** Coffee break**11:20****From Genome Databases  
to Breeding Information  
Appliances****Lukas Mueller**  
BTI, Cornell, USA**12:15****The Complexity of Plant  
Genomes: Genome Structure,  
Gene Functions and Beyond****Klass Vandepoele**  
Ghent University, Belgium**13:10** Lunch**14:30 SESSION 3****ANALYSIS OF DICOT  
GENOMES****A First View on the Complexity  
of the *Solanaceae* Genomes****Christian Bachem**  
Wageningen University, The  
Netherlands**15:25*****Utricularia Gibba* : the Small  
Carnivorous  
Plant with Miniature Intergenic  
Region and Absence of Active  
Transposable Elements****Luis Herrera-Estrella**  
Langebio, Irapuato, Mexico**16:20** Coffee break**16:40****Applied Breeding in  
Fruitculture: Dealing with Fruit  
Crop Genomes****Riccardo Velasco**  
IASMA, Italy**17:35****We Sequenced the Melon  
Genome. Will Melons Taste  
Sweeter?****Jordi Garcia-Mas**  
CRAG, Barcelona, Spain**18:30****Open Debate****19:30**

Free time

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**Thursday, October ,11<sup>th</sup>, 2012**

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9:00 SESSION 4  
NATURAL VARIABILITY  
*Arabidopsis* Natural  
Variation: Mapping  
Populations, QTLs, Genes  
and 'Omics'

**Maarten Koornneef**  
Max Planck Institute for Plant  
Breeding Reserach, Koln,  
Germany

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9:55 SESSION 5  
HTP SEQUENCING OF  
PLANT GENOMES  
Sequencing, Sequencing,  
and Sequencing

**Jun Wang**  
BGI, China

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10:50 Coffee break

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11:20 SESSION 6  
GENOME ANALYSIS IN  
SEED COMPANIES  
Agricultural Alchemy:  
Translating Genomic Data  
into Crop Performance

**Erik Legg**  
Syngenta Seeds, USA

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12:15  
Genetic and epigenetic  
diversity of maize: A plant  
breeding perspective

**Antoni Rafalski**  
Pioneer-Dupont, USA

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13:10  
Closing and conclusion remarks

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14:00  
Visit and lunch at Crag

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