







Welcome to the PLANT GENOMES' DAY

We celebrate today the 10th anniversary of the Plant Genomic Center (CNRGV). On this occasion we wanted to invite scientists who played a major role in research programs in genomics. Genomics has seen extraordinary growth since the 1990s and constitutes a major scientific challenge. Genomics provides essential tools to speed up traditional molecular research approaches. The knowledge of plant genomes will help in understanding plant's adaptation to various conditions, including many stresses due to climate changes. It will also help in understanding the evolution and adaptation skills of the plant. Many societal challenges request an improvement in the managing of plant, in terms of productivity, quality of the production, environment respect, or a greater use of biomass. Simultaneously, the revolution in sequencing technologies offers an exciting new perspective to answers these questions.

Since its creation the objectives of the CNRGV are to assist the international community by bringing them resources, tools, and expertise in the genomic field. As we believe that collaboration is a driver for innovation and creativity we take advantage of our anniversary to organize a day of exchanges on the achievements, challenges and future for plant genomics.

We wish you a very pleasant Plant Genomes' Day,

Hélène Bergès, PLANT GENOME CENTER Director



PROGRAM

	9H00	9H30		Welcome
	9H30	9H40	Hélène Bergès	Congress Opening
1 u	9H40	10H10	Francis Quétier	From Arabidopsis to the 3B chromosome of the hexaploid wheat: evolution of technologies, strategies and consortium managements in plant genome sequencing
Session 1	10H10	10H40	Jane Rogers	Genomics for biology
S	10H40	11H10	Rod Wing	BAC to the Future – From Gene Assembly Space to Platinum Standard Genomes
	11H10	11H40		Morning refrehments
21	11H40	12H10	Nevin Young	Exploring Genome Variation, Nodulation and Complex Gene Families in Medicago truncatula
Session 2	12H10	12H40	Nils Stein	Next Generation Barley Genomics
ν̈́	12H40	13H10	Frédéric Choulet	The IWGSC: Strategies and Activities to Sequence the Bread Wheat Genome
	13H10	14H30		Lunch
ω	14H30	15H00	Christophe Plomion	Forest tree genetics in the age of genomics
Session 3	15H00	15H30	Rajeev Varshney	Genomics strides in grain legumes
Se	15H30	16H00	Cristobal Uauy	Moving genomics into the field
	16H00	16H30		Afternoon Refrehments
4	16H30	17H00	Patrick Schnable	Identification and Cross-validation of Trait-associated SNPs Provide Insights into Heterosis
Session 4	17H00	17H30	Michele Morgante	From one to the many genomes of a plant: the evolution of the grapevine pan-genome
S	17H30	18H00	Vincent Colot	Epigenetic Recombinant Inbred Lines: Demythifying Epigenetic Inheritance
	18H00	18H10	Hélène Bergès	Closing Congress

Chairmen's Biography

Session 1

Dr Jacqueline Grima-Pettenati



Research Director CNRS (DR2), Team leader at the LRSV (CNRS/UPS, Toulouse)

Jacqueline Grima-Pettenati has a long-standing experience in functional genomics of secondary cell wall biosynthesis both in model plants and in trees (75 papers in peer-reviewed journals). Her team participated to the assembly and annotation of the Eucalyptus genome (Myburg et al, Nature, 2014). She is currently coordinating a Plant KBBE project « Tree for Joules » (13 partners, 4 countries) aiming at improving poplar and Eucalyptus wood properties for second-generation biofuels.

Session 2 Dr Camille Rustenholz

Assistant professor since 2012 at INRA SVQV (Colmar) working on grapevine genomics project.

Postdoc (18 months) 2011-2012 at Iowa State University in Pat Schnable group working on structural genomic in maize.

PhD 2007-2010 at INRA GDEC (Clermont-Ferrand) in genomic and transciptomic in wheat.



Session 3

Dr Nicolas Langlade

After his PhD at University of Neuchatel and a post-doc at the John Innes Centre, Norwich, Dr. Nicolas Langlade joined the INRA in 2006 as a post-doc in the laboratory of plant reproduction and development with Peter Rogowsky (Ecole Normale Superieure, Lyon) where he worked on maize kernel development. He moved to the INRA Toulouse in 2007 as senior researcher, where he's developing a research program aiming at identifying the molecular and genetic basis of sunflower adaptation to abiotic stresses.



Pr Olivier Panaud



Since 2003: Professor at the University of Perpignan Via Domitia. Team leader at the Plant Genome and Development Laboratory (LGDP).

The LGDP is involved in research and study on plant genome organization and gene regulation, particularly their role in plant development and adaptation to biotic and abiotic stresses. Pr Olivier Panaud is involved in genome analysis and evolution and he's an expert in Transposable Elements.

2008-2012 Vice-President for Research of the University of Perpignan.

Session 1 9.40 am - 11.10 am

Pr Francis Quétier 9.40 am - 10.10 am

Professor at the University Evry Val d'Essonne Policy officer at Genopole Evry.

<u>francis.quetier@gmail.com</u> <u>francis.quetier@genopole.fr</u>



1964 to 1994: Biochemistry / Biophysics of DNA, molecular biology, cytogenetics / plant breeding, plant genomics (including mitochondria and chloroplasts).

1988 to 1994: Director of IBP (UMR CNRS 1128) From 1995 to 1997: Genetics and Medical Genomics Genethon (neuro-muscular disease).

1997 to 2008: Assistant Director Génoscope. High throughput genomics; Human chromosome 14, Tetraodon fish, plants (Arabidopsis, rice, grapes, cocoa, *Medicago*, banana ...).

Notes

Awards: 1970 French League against Cancer, 2001 Kumho Award (sequencing of Arabidopsis).

Knight of the Order of Academic Palms.

80 publications in refereed journals, 12 articles in NATURE, 1 teaching book, 1 patent CNRS.

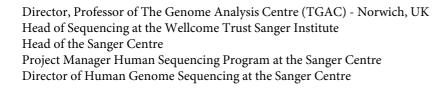
From Arabidopsis to the 3B chromosome of the hexaploid wheat: evolution of technologies, strategies and consortium managements in plant genome sequencing

Session 1 9.40 am - 11.10 am

Dr Jane Rogers 10.10 am - 10.40 am

IWGSC - UKDeputy Director of Eversole AssociatesFormer Director of the TGAC (The Genome Analysis Centre)

janerogersh@gmail.com



Board Member of the Biotechnology and Biological Sciences Research Council Board of Trustees at the TGAC Member of the Board of Management of the Welcome Trust Sanger Institute



Genomics for biology

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Session 1 9.40 am - 11.10 am

Pr Rod Wing 10.40 am - 11.10 am

AGI - USA

Professor in The University of Arizona's Department of Plant Sciences Director of the Arizona Genomics Institute Bud Antle Endowed Chair for Excellence in Agriculture and Life Sciences

The School of Plant Sciences, Ecology & Evolutionary Biology rwing@email.arizona.edu http://cals.arizona.edu/spls/node/209



Rod Wing earned his PhD in yeast genetics at UC Davis in 1987. He then moved into plant biology, first as a postdoc with Sheila McCormick (USDA-ARS Plant Gene Expression Center) and then with Steve Tanksley (Cornell University). Rod became an Assistant Professor at Texas A&M University in 1991 in the Soil & Crop Sciences Department. There his lab constructed the first plant BAC libraries in 1993/4 for sorghum, Arabidopsis and rice. In 1997 he moved his lab to Clemson University and founded the Clemson University Genomics Institute where he was appointed the Coker Endowed Chair of Plant Molecular Genetics. There his lab developed a BAC-based physical map for the rice genome and led the USA effort to sequence rice chromosomes 3 and 10. In 2002 Rod moved to the University of Arizona and founded the Arizona Genomics Institute which has played significant roles in over 30 plant and animal genome sequencing projects to date. Professor Wing has received numerous appointments and awards including the USDA Secretary's Honor Award for Superior Service, Group Leader - United States Rice Genome Consortia (2004), the first holder of Bud Antle Endowed Chair of Excellence in Agriculture & Life Science (2005), the Alexander von Humboldt Research Award (2010), and most recently, the AXA Endowed Chair for Genome Biology and Evolutionary Genomics (2014). This new AXA Chair award opens a new chapter for Dr. Wing as it will allow him to translate the past 20 years of genomic research in rice into practical solutions to help solve the 9-billion people question – i.e. how can we grow enough food to feed the world by 2050.

BAC to the Future – From Gene Assembly Space to Platinum Standard Genomes

Session 2 11.40 am - 13.10 pm

Pr Nevin Young 11.40 am - 12.10 pm

Distinguished McKnight University Professor

Department of Plant Pathology and Department of Plant Biology College of Food, Agricultural and Natural Resource Sciences

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http://umn.edu/home/neviny



Nevin Young is a Distinguished McKnight University Professor at the University of Minnesota with joint appointments in the Department of Plant Pathology and the Department of Plant Biology. Dr. Young received his B.A. at Indiana University in 1977 and Ph.D. at Yale University in 1984, followed by a NSF Postdoctoral Fellowship at Cornell University. He is author or co-author of more than 270 scientific publications, including 105 refereed publications and 18 book chapters. Dr. Young was principal investigator of the NSF initiative to sequence the genome of the model legume, *Medicago truncatula*, published in *Nature* magazine in 2011, as well as the current NSF project to create a genome-wide association mapping "Hapmap" platform for *Medicago*.

Exploring Genome Variation, Nodulation and Complex Gene Families in *Medicago* truncatula

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Session 2 11.40 pm - 13.10 pm

Dr Nils Stein 12.10 pm - 12.40 pm

IPK - Germany

PhD., Researcher and leader of the research group Genome Diversity at the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben - Germany

stein@ipk-gatersleben.de



Nils Stein earned his PhD in Genetics at University of Hohenheim (Stuttgart, Germany) in 1997. He worked as a postdoc (1998-2001) in the laboratory of Beat Keller, University of Zurich, Switzerland and isolated a leaf rust resistance gene from hexaploid wheat via positional cloning in a closely related diploid wheat species. He moved to IPK Gatersleben in 2001 and since 2007 is leading the group Genome Diversity of the Genebank department.

The main focus of his research is structural and comparative genome analysis in Triticeae species with emphasis on barley (*Hordeum vulgare*). Nils is co-coordinator of the European Triticeae Genomics Initiative (ETGI). Since 2008 he is the coordinator of the International Barley Genome Sequencing Consortium (IBSC).

Next Generation Barley Genomics

Dr Frédéric Choulet 12.40 pm - 13.10 pm

INRA - France Research Scientist

frederic.choulet@clermont.inra.fr



Dr Frédéric Choulet completed his PhD in bacterial genomics at the University of Nancy (France), working on Streptomyces genome sequencing and evolution. After his PhD in 2006, he joined the INRA GDEC (Genetics Diversity and Ecophysiology of Cereals) in Clermont-Ferrand (France) as a postdoctoral fellow to work on plant genomics and, more precisely, on the complex bread wheat genome. Since 2009, he has been a bioinformatics group leader at INRA GDEC and an active member of the International Wheat Genome Sequencing Consortium, which aims at obtaining a reference sequence for this amazingly large and polyploid genome. He leads projects in wheat genome sequencing and he is particularly interested in understanding the relationship between genome structure, expression, and evolution, mainly focusing on transposable element dynamics and gene duplications.

The IWGSC: Strategies and Activities to Sequence the Bread Wheat Genome

Session 3 14.30 pm - 16.00 pm

Dr Christophe Plomion 14.30 pm -15.00 pm

INRA – France Scientist director, UMR BIOGECO, unit "Biodiversity Gene and Community"

plomion@pierroton.inra.fr



Dr Christophe Plomion is a scientist director at INRA Bordeaux, BIOGECO unit "Biodiversity Gene and Community". In 2008, he has been appointed as deputy head of the "Forest, Grassland and Fresh Water Ecology" Division of INRA, and board member of EPSO, the European Plant Science Organization.

His research is focused on the analysis of individual's and specie's responses to environmental variations at the phenotypic and molecular levels by integrating functional and evolutionary ecology, genomics and bioinformatics. He is currently coordinating a project aiming at sequencing a reference genome sequence for oak et resequencing four cooccuring Quercus species to identify genes involved in adaptation. Another interest in the genotype to phenotype problem, is its application in breeding.

Forest tree genetics in the age of genomics

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Session 3 14.30 pm - 16.00 pm

Dr Rajeev K. Varshney 15.00 pm - 15.30 pm

ICRISAT - India

Director of the Centre of Excellence in Genomics at ICRISAT. Leader of Comparative and Applied Genomics Theme of CGIAR Generation Challenge Programe (GCP)

http://en.wikipedia.org/wiki/Rajeev Kumar Varshney



Rajeev Varshney is Director, Centre of Excellence in Genomics (www.icrisat.org/ceg) and Research Program Director, Grain Legumes at International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India. He is also an Adjunct Professor at the University of Western Australia.

His research has major focus on development and application of large-scale genomic and transcriptomic resources in legume crops by using next-generation sequencing and high-throughput genotyping technologies.

Genomics strides in grain legumes

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Dr Cristobal Uauy 15.30 pm - 16.00 pm

John Innes Centre – UKProject Leader, Department of Crop Genetics

cristobal.uauy@jic.ac.uk



Dr Cristobal Uauy is a Project Leader at the John Innes Centre and is a Visiting Scholar at the National Institute of Agricultural Botany in Cambridge. He studied Agronomy in Chile (2001) and holds a PhD in Genetics from the University of California, Davis (2007). His work on wheat genetics has been recognized as the most outstanding PhD dissertation in Biological and Life Sciences in the US and Canada (2006-07) and through the Bayer Foundation Early Excellence in Science Award (2012).

His program in the UK is strongly focused on the identification of genes involved in wheat productivity. This includes identifying genes controlling pre-harvest sprouting and grain size and shape characteristics to improve yield. His group is also using new DNA sequencing technology to access current and historical collections of the yellow rust pathogen to understand how it has evolved and to look at wheat genes best able to resist the pathogen in the future. Cristobal is using molecular genetic approaches to identify these genes and enhance the pipeline to translate new knowledge at the molecular level into improved wheat varieties for growers, industry and consumers.

Moving genomics into the field

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Pr Patrick S. Schnable 16.30 pm - 17.00 pm

Iowa State University - USA

C.F. Curtiss Distinguished Professor and Iowa Corn Promotion Board Endowed Chair in Genetics
Director Center for Plant Genomics - Center for Carbon Capturing Crops
Professor Department of Agronomy - Department of Genetics, Development and Cell Biology

schnable@iastate.edu

Patrick S. Schnable, PhD., is a Baker Professor of Agronomy at Iowa State University where he also serves as the founding director of the Center for Plant Genomics.

Schnable's scientific investigations have been wide-ranging. He was the co-lead author on the maize genome sequencing paper (2009, Science) and a co-corresponding author on a 2010 Nature Genetics paper that reported the re-sequencing of six additional maize haplotypes.

Patrick S. Schnable serves as an associate editor for PLoS Genetics. In 2009 he was appointed a Chang Jiang Scholar Professor at China Agriculture University and in 2010 he was elected a fellow in the AAAS. He is also the managing partner for Data2Bio LLC, which designs, conducts, and analyzes Next Generation Sequencing projects.

Identification and Cross-validation of Trait - associated SNPs Provide Insights into Heterosis

Dr Michel Morgante 17.00 pm - 17.30 pm

University of Udine - Italy

Scientific Director of Istituto di Genomica Applicata.

michele.morgante@uniud.it



Dr Michele Morgante is currently the Scientific Director of Istituto di Genomica Applicata in Udine and is professor of Genetics at the University of Udine. He was educated as a geneticist in Padova and Udine and then worked for 5 years at DuPont Crop Genomics as Senior scientist. His research group has been instrumental in establishing a number of genetic technology platforms that are now being widely deployed in plant genomic research (e.g. microsatellites, fluorescent BAC fingerprinting). His research programme is currently focusing on genome analysis in plants, including genome sequencing and resequencing and genome evolution studies, sequence diversity analysis and epigenomics. He has contributed to the sequencing of the grapevine, peach and citrus genome and is currently sequencing the olive tree. He is particularly interested in novel approaches to dissecting complex traits and in developing the genomics and informatics technologies needed for this.

He is a member of Accademia Nazionale dei Lincei (National Academy of Sciences) and has received the 2005 Medal for Physical and Natural Sciences of the Accademia Nazionale delle Scienze detta dei XL. He is section editor of BMC Genetics and associate editor of BMC Plant Biology. In 2011 he has been awarded by the European Research Council an Advanced Grant for the analysis of plant pan genomes.

From one to the many genomes of a plant: the evolution of the grapevine pan-genome

Notes

Dr Vincent Colot 17.30 pm - 18.00 pm

Group Leader at CNRS France

Arabidopsis Epigenetics and Epigenomics CNRS UMR8197 - INSERM U1024 Institut de Biologie de l'Ecole Normale Supérieure (IBENS)

colot@biologie.ens.fr



Dr Vincent Colot is a geneticist by training and has a long-term interest in the study of epigenetic mechanisms and their contribution to the control of genome activity within and across generations. His group recently established a unique population of epigenetic recombinant inbred lines (epiRILs) in the flowering plant Arabidopsis, with the aim of determining the contribution of multigenerational epigenetic variation to the heritability of complex traits, as well as the consequences of loss of DNA methylation on transposable element mobilization. He has a long standing interesting in the role of DNA methylation as a heritable epigenetic mark and his current work is at the interface between epigenetics, population genetics and ecology.

Vincent graduated from the Institut National Agronomique in Paris and carried out his PhD at the former Plant Breeding Institute in Cambridge (UK). He joined the French Centre National de la Recherche Scientifique (CNRS) and established his group in 2001 at the Unité de Recherche en Génomique Végétale (URGV) in Evry. He moved to the Ecole Normale Supérieure in Paris in 2007. He was elected as a member of EMBO in 2010. He received the Prix Jean-Duvernoy of the Académie d'Agriculture de France (2012) and the Prix Charles-Léopold Mayer of the Académie des Sciences (2013).

Epigenetic Recombinant Inbred Lines: Demythifying Epigenetic Inheritance

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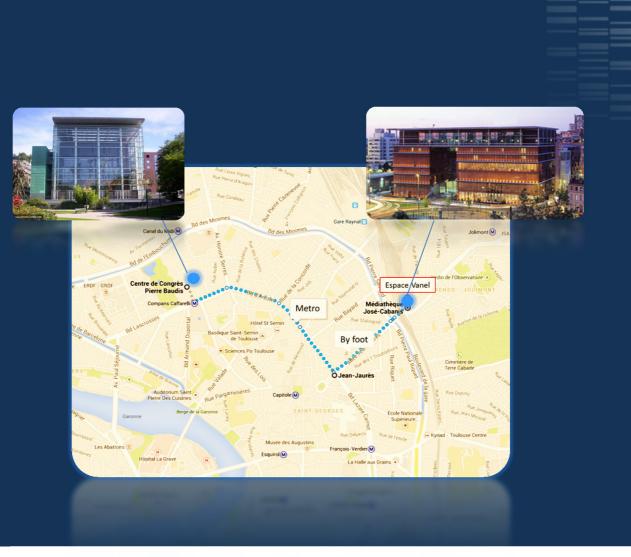
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