



4th EWPC 25-26 June 2015

4th European Workshop on Plant Chromatin

25-26 June 2015

Swedish University of Agricultural Sciences, Uppsala, Sweden



2015 Committee

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Program

THURSDAY 25 June 2015

08:30 Registration
08:50 Opening and Welcome

SESSION 1

Chair Andrzej Jerzmanowski

09:00 Deciphering the role of Polycomb Repressive Complex 1 variants in regulating the acquisition of flowering competence in Arabidopsis

Myriam Calonje, Institute of Plant Biochemistry and Photosynthesis, Seville, Spain

09:30 Evolution of plant-specific PWO proteins

Sara Farrona, Plant and Agricultural Biosciences Centre, Galway, Ireland

09:45 With a little help from my friends: Telobox binding proteins assist Polycomb Group protein complexes in the repression of target genes

Franziska Turck, Max Planck Institute for Plant Breeding Research, Köln, Germany

10:05 Genome-wide analysis of chromatin changes during Trithorax-associated gene activation in Arabidopsis

Julia Engelhorn, CEA, Laboratoire Physiologie Cellulaire Végétale, Grenoble, France

10:20 PRC2-mediated chromatin control of adaptation to nutritional environment in Arabidopsis

Antoine Martin, Institute for Integrative Plant Biology, Montpellier, France

10:40 Coffee break

SESSION 2

Chair Franziska Turck

11:25 Chromatin regulation of plant metabolic gene clusters
Hans-Wilhelm Nützmann, John Innes Centre, Norwich, UK

Pecha Kucha

11:40 Regulation of nucleosome positioning by the Arabidopsis chromatin remodeler PKR1
Matthew Gentry, Swedish University of Agricultural Sciences, Uppsala, Sweden

11:45 Binding of ubiquitin by the WIYLD domain of the histone H3K9 methyltransferase SUV4 changes its activity and product specificity
Silje Veie Veiseth, University of Oslo, Norway

11:50 Epigenome dynamics during dormancy in Sweet Cherry
Noémie Vimont, INRA Bordeaux, France

11:55 Is the rearrangements of linker histones required for establishing cell fate in plants?
Kinga Rutowicz, University of Zürich, Switzerland

12:00 Characterization of chromatin associated MAPK targets identified in a large-scale phosphoproteomics screen in *Arabidopsis*
Mai Jarad, King Abdullah University of Science and Technology, Saudi Arabia

12:05 Identification of putative enhancers in maize using the open chromatin profile obtained with DNase-seq
Johan Zicola, Max Planck Institute for Plant Breeding Research, Köln, Germany

12:10 Regulation of *FT* through chromatin context in single cells
Till Bey, University of Amsterdam, The Netherlands

12:15 Location of repetitive sequences in *Brachiaria ruziziensis* chromosomes
Thais Furtado Nani, Federal University of Lavras, Brazil

12:20 The role of DNMT5 type DNA methyltransferase in mating-type specification in Diatom *S. robusta*
Petra Bulankova, University of Ghent, Belgium

12:25 Intercellular communication in pollen: *AHG3* transcripts move from the vegetative cell to sperm in *Arabidopsis*
Hua Jiang, Swedish University of Agricultural Sciences, Uppsala, Sweden

12:30 Lunch

SESSION 3

Chair Klaus Grasser

14:00 SWI/SNF Chromatin remodeling complex directly regulates different hormone signaling pathways in Arabidopsis

Andrzej Jerzmanowski, University of Warsaw, Poland

14:30 Arabidopsis SWC4 is a DNA-binding component of the SWR1 complex and is essential for plant development

Pedro Crevillén, Instituto Nacional de Investigación Agraria, Madrid, Spain

14:50 Arabidopsis transcript elongation factors

Klaus Grasser, University of Regensburg, Germany

15:10 EBS participates in the chromatin-mediated control of plant development

Manuel Piñeiro, Instituto Nacional de Investigación Agraria, Madrid, Spain

15:30 A novel paternally expressed gene tears down the interploidy hybridization barrier in Arabidopsis

Guifeng Wang, Swedish University of Agricultural Sciences, Uppsala, Sweden

15:50 **Coffee break**

SESSION 4

Chair Myriam Calonje

16:35 Histone H3 dynamics in Arabidopsis heterochromatin organization

Aline Probst, CNRS-INSERM, Clermond-Ferrand, France

16:55 Eviction or destabilization: differential H2A.Z nucleosome dynamics in response to warm

Sandra Cortijo, Sainsbury Laboratory, Cambridge, UK

17:15 Mind the gap: Genome-wide characterization of a novel heterochromatic histone mark in Arabidopsis thaliana.

Minerva Susana Trejo Arellano, Swedish University of Agricultural Sciences, Uppsala, Sweden

17:35 Epigenetic barriers to somatic embryogenesis in Arabidopsis

Iva Mozgova, Swedish University of Agricultural Sciences, Uppsala, Sweden

17:45 The AAA-ATPase molecular chaperone Cdc48/p97 disassembles sumoylated centromeres, decondenses heterochromatin and activates ribosomal RNA genes

Zsuzsanna Merai, Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria

17:55 Reversion of rDNA and telomere instability in plants with *caf1* mutation history

Jiri Fajkus, Masaryk University, Brno, Czech Republic

18:15 **Dinner**

FRIDAY 26 June 2015

SESSION 5

Chair Manuel Piñeiro

08:45 Mechanistic dissection of chromatin switches during winter cold
Rea Antoniou-Kourounioti, John Innes Centre, Norwich, UK

09:15 Understanding the role of 5-methyl cytosine DNA demethylases in controlling winter dormancy of woody plants
Daniel Conde, Universidad Politécnica de Madrid, Spain

09:35 AtMBDs, a possible link between DNA and histone methylation
Zeynep Nenseth, University of Oslo, Norway

09:55 Role of histones arginine methylation in Arabidopsis early embryos epigenetic pre-patterning
Daphné Autran, Institut de Recherche pour le Développement, Montpellier, France

10:15 The chromatin architectural protein DEK3 is phosphorylated by a stress-related protein kinase
Sascha Waidmann, Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria

10:35 Coffee break

SESSION 6

Chair Sara Farrona

11:20 CHD1 and CHD3 act antagonistically to regulate seed maturation program in Arabidopsis
Yuan Shen, Institut de Biologie des Plantes, Orsay, France

11:35 RNA-directed DNA Methylation safeguards transposon silencing in the SAM of Arabidopsis
Andreas Finke, Max Planck Institute for Plant Breeding Research, Köln, Germany

11:55 eQTL mapping reveals a position-dependent stable escape from epigenetic silencing and transposition of a transposon in the Arabidopsis lineage
Isabel Bäurle, Universität Potsdam, Germany

12:15 Epigenetic marks at paramutation sequences in maize plants impaired for RNA-directed DNA methylation
Iris Hövel, University of Amsterdam, The Netherlands

12:35 Lunch

SESSION 7

Chair Aline Probst

14:05 Light signaling controls nuclear architecture reorganization and massive chromatin state changes during seedling development
Fredy Barneche, IBENS, Paris, France

14:35 Gene regulation by nucleolar sequestration: a new way to regulate gene transcription?
Frédéric Pontvianne, CNRS-Université de Perpignan, France

14:55 Analysis of the role of chromatin remodeling in environmental control of annual growth cycle
Pal Miskolczi, Swedish University of Agricultural Sciences, Umea, Sweden

15:15 Non-random spatial arrangement of chromosomes in triploid endosperm nuclei
Célia Baroux, University of Zürich, Switzerland

15:35 Coffee break

SESSION 8

Chair Paul Grini

16:05 Condensin dynamics in Arabidopsis interphase nuclei
Celia Municio, IPK, Gaterslebn, Germany

16:25 Decondensation of chromosomal 45S rDNA sites in *Lolium* species does not promote loss of DNA
Laiane Rocha, Federal University of Lavras, Brazil

16:45 Spatial 3D modelling of plant nuclear architecture
Valérie Gaudin INRA, Versailles, France

17:00 Closing remarks - End

2015 Partners



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