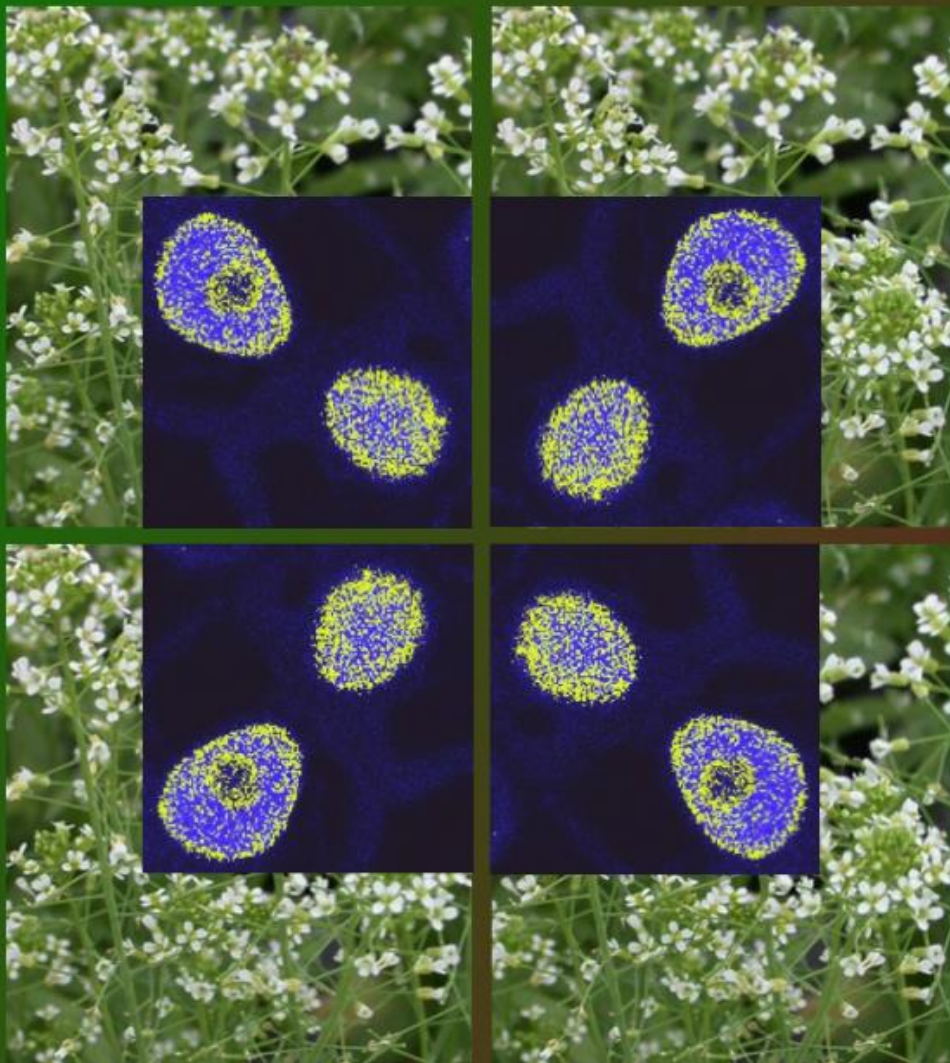


# EUROPEAN WORKSHOP ON PLANT CHROMATIN

25-26 JUNE 2015

UPPSALA



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# **4<sup>th</sup> EUROPEAN WORKSHOP ON PLANT CHROMATIN**

25-26 June 2015  
Uppsala  
Sweden

## **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 SUVR4 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**