



5th European Workshop on Plant Chromatin 1-2 June 2017

The Gregor Mendel Institute of Molecular Plant Biology, Vienna, Austria



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2017 Committee

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program

Thursday June 1st

09:00 – 09:10 Opening and Welcome

09:10 – 09:55 Keynote Lecture Bob Schmitz (University of Georgia, US) *Transgene-mediated epimutagenesis leads to heritable phenotypic variation*

Session 1

Chair: Nir Ohad (Tel Aviv University, IL)

09:55 – 10:15 Clara Bourbousse (Institut de Biologie de l'Ecole Normale Supérieure, FR) *Light-controlled chromatin reprogramming during Arabidopsis seedling development*

10:15 – 10:35 Aline Probst (GReD Université Clermont Auvergne, FR) *Histone H3.3 deposition pathways in Arabidopsis thaliana*

10:35 – 10:55 Isabel Bäurle (University of Potsdam, DE) *Chromatin regulation of heat stress memory in plants*

10:55 – 11:30 **Coffee Break**

Session 2

Chair: Frederic Berger (Gregor Mendel Institute, AT)

11:30 – 11:50 Martina Dvořáčková (Central European Institute of Technology, CZ) *Spatio-temporal organization of replicating 45S rDNA genes in Arabidopsis thaliana*

11:50 – 12:10 Satoru Fujimoto (Tokyo University of Science, JP) *Live imaging of chromosome loci using genome editing techniques in plants*

12:10 – 12:30 Takuya Sakamoto (Tokyo University of Science, JP) *Regulation of centromere positioning by condensin II in collaboration with nuclear envelope proteins in Arabidopsis*

12:30 – 12:50 Tomáš Beseda (Institute of Experimental Botany AS CR, CZ) *Hi-C to study the architecture of chromatin*

12:50 – 14:00 **Lunch break**

Session 3

Chair: Mieke Van Lijsebettens (VIB U-Gent, BE)

- 14:00 – 14:05 Matthieu Ingouff (University of Montpellier, FR) *Live-cell analysis of DNA methylation during sexual reproduction in Arabidopsis*
- 14:05 – 14:10 Susanne Edelmann (University of Hamburg, DE) *Reduction of DNA methylation during early embryogenesis enhances growth heterosis of maize plants* 5th European Workshop on Plant Chromatin 4
- 14:10 – 14:15 Šárka Schořová (Masaryk University, CZ) *The newly found proteins associated with telomeres and telomerases in Arabidopsis thaliana*
- 14:15 – 14:20 Miloslava Fojtová (Central European Institute of Technology, CZ) *Telomere dynamics in plant calli and regenerants*
- 14:20 – 14:25 Hanna Alhoraibi (King Abdullah University of Science and Technology, SA) *Investigating the role of a MAPK substrate in plant immunity*
- 14:25 – 14:30 Maike Stam (University of Amsterdam, NL) *Identification and characterization of distant enhancers in Zea mays*
- 14:30 – 14:35 Wojciech Antosz (University of Regensburg, DE) *Arabidopsis RNA polymerase II transcript elongation complex*
- 14:35 – 14:40 Pauline Jullien (ETH Zurich, CH) *Cell-specific functional characterization of Arabidopsis ARGONAUTE 3*
- 14:40 – 15:15 **Coffee Break**

Session 4

Chair: Franziska Turck (Max Planck Institute for Plant Breeding Research, DE)

- 15:15 – 15:35 Yue Zhou (Max Planck Institute for Plant Breeding Research, DE) *Telobox cis-elements recruit CLF-PRC2 for H3K27me3 deposition via telomere repeat binding factors*
- 15:35 – 15:55 Kinga Rutowicz (University of Zurich, CH) *Chromatin players in protoplast dedifferentiation and plant regeneration*
- 15:55 – 16:15 Ernst Aichinger (Albert-Ludwigs-University Freiburg, DE) *Chromatin-mediated control of the root stem cell niche*
- 16:15 – 16:35 Ruben Gutzat (Gregor Mendel Institute, AT) *Molecular analysis of stem cells in the Arabidopsis shoot apical meristem*
- 16:35 – 17:15 **Coffee Break**

Session 5

Chair: Jose Jarillo (INIA, Madrid, ES)

- 17:15 – 17:35 Manu Dubin (Bayer CropScience NV, BE) *Functional diversification of DNA methyltransferases in the hexaploid bread wheat Triticum aestivum*
- 17:35 – 17:55 Minerva S. Trejo-Arellano (Swedish University of Agricultural Sciences, SE) *The nucleosome landscape of Arabidopsis is robust to the lack of replication-dependent chromatin assembly factor*
- 17:55 – 18:15 Ales Pecinka (Max Planck Institute for Plant Breeding Research, DE) *SMC5/6 complex is involved in maintaining higher order chromatin structure and repair of nucleoprotein adducts in Arabidopsis*
- 19:00 **Departure to Heurigen “Alter Bach-Hengl”, Sandgasse 7, 1190** 5th European Workshop on Plant Chromatin 5

Friday June 2nd

Session 6

Chair: Fredy Barneche (Institut de Biologie de l'Ecole Normale Supérieure, FR)

09:00 – 09:20 Christel Carles (Grenoble Alpes University, CH) *Ultrapetala1 and chromatin dynamics at the onset of gene activation*

09:20 – 09:40 Eva Reimer-Michalski (Aachen University, DE) *Regulatory DNA elements in the primed systemic immune response of Arabidopsis*

09:40 – 10:00 Claude Becker (Gregor Mendel Institute, AT) *Biochemical interference between plants affects chromatin configuration and slows down growth*

10:00 – 10:20 Angélique Délérís (Institut de Biologie de l'Ecole Normale Supérieure, FR) *A COPIA retroelement exhibits transcriptional behaviour akin to immune response genes in response to bacteria and is negatively regulated by both DNA methylation- and polycomb-mediated silencing in Arabidopsis*

10:20 – 11:30 **Coffee Break**

Session 7

Chair: Christel Carles (Grenoble Alpes University, CH)

11:30 – 11:50 Maria-Amparo Asensi-Fabado (University of Glasgow, UK) *H3K27me3 gene marking in cell types controlling root-shoot communication in Arabidopsis*

11:50 – 12:10 Francisco J. Romero-Campero (University of Seville, ES) *H2A monoubiquitination in Arabidopsis is generally independent of LHP1 and PRC2 activity*

12:10 – 12:30 Rebecca Bloomer (John Innes Centre, UK) *WLC: a novel regulator of vernalization in Arabidopsis*

12:30 – 12:50 Inês Trindade (Free University of Berlin, DE) *Epigenetic regulation of floral commitment in Arabidopsis thaliana*

12:50 – 14:00 **Lunch Break**

Session 8

Chair: Maike Stam (University of Amsterdam, NL)

14:00 – 14:05 Ana Karina Morao (Institut de Biologie de l'Ecole Normale Supérieure, FR) *Distinct PRC2 cooperate to regulate Arabidopsis root development*

14:05 – 14:10 Iva Mozgová (Centre Algatech, CZ) *The role of PRC2 in photoautotrophic growth*

14:10 -14:15 Eduardo March (National University of Ireland Galway, IE) *Molecular characterization of the Confuso protein of Arabidopsis*

14:15 – 14:20 Dorota Komar (Centre for Plant Biotechnology and Genomics UPM-INIA, ES) *The PHD-containing protein EBS controls different aspects of reproductive development* 5th European Workshop on Plant Chromatin 6

14:20 – 14:25 Miyuki Nakamura (The Swedish University of Agricultural Sciences, SE) *Inheritance and alteration of FLC silencing through shoot regeneration*

14:25 – 14:30 José Luis Rodríguez Lorenz (Institute of Biophysics AS CR, CZ) *Methylation and degeneration of the Y chromosome in the dioecious Silene latifolia*

14:30 – 14:35 Maciej Lirski (Institute of Biochemistry and Biophysics, PL) *Linker histones act as powerful lock of heterochromatin activity in Arabidopsis*

14:35 – 14:40 Wei Zhao (University of Strasbourg, FR) *Crosstalk of different histone modifications in the regulation of gene transcription and flowering time control in Arabidopsis thaliana*

14:40 – 15:15 **Coffee Break**

Session 9

Chair: Stefan Scholten (University of Hamburg, DE)

15:15 – 15:35 Hua Jiang (Swedish University of Agricultural Sciences, SW) *Ectopic application of H3K9me2 establishes postzygotic reproductive isolation in Arabidopsis*

15:35 – 15:55 Nir Ohad (Tel Aviv University, IL) *Epigenetic regulation of apomixis in Physcomitrella patens*

15:55 Concluding Remarks

16:00 **Departure**

2017 Partners



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