

Thursday, 13. June 2019

08:45 – 9:00 Opening remarks

Session 1: A view on chromatin, techniques and nuclear structure

Chair: Daniel Schubert

- 09:00 - 09:15 **Linker histones are fine-scale chromatin architects modulating developmental decisions in Arabidopsis**
Célia Baroux (Zürich University, CH)
- 09:15 - 09:30 **Ribosomal RNA genes distribution and expression organize nucleolus-associated chromatin domains**
Frederic Pontvianne (CNRS LGDP, Perpignan, FR)
- 09:30 - 09:45 **Elucidating the role of epigenetic regulators at the nuclear periphery in Arabidopsis**
Kalyanikrishna (Freie Universität Berlin, DE)
- 09:45 - 10:00 **Epigenetic pattern of plant telomeres with non-canonical sequence**
Katerina Adamusova (CEITEC, Brno, CZ)
- 10:00 - 10:15 **AT-hook proteins increase histone modification H3K9me2 independently of DNA methylation**
Hua Jiang (IPK, Gatersleben, DE)
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- 10:15 - 10:20 **RuvBL1 and RuvBL2a, the plant Pontin and Reptin homologues, are involved in telomerase biogenesis and regulation via TRB Proteins**
Šárka Schořová (CEITEC, Brno, CZ)
- 10:20 - 10:25 **CRISPR-based approaches to address PRC2 functions in Arabidopsis**
Annick Dubois (ENS Lyon, FR)
- 10:25 - 10:30 **Engineered DNA-binding molecule-mediated chromatin immunoprecipitation: a powerful tool to detect the 3D genome architecture in protoplasts**
Tingting Yang (MPIPZ, Köln, DE)

Coffee break

10:30 – 11:00 **Coffee and more**

Keynote lecture

Chair: Claudia Köhler

11:00 - 12:00 **Locus- and tissue-specific control of DNA methylation in *Arabidopsis thaliana***

Julie Law (SALK, La Jolla, USA)

Poster Lunch I

12:00 - 14:00 **Finger food and Posters**

Session 2: Chromatin, inheritance and generation changes

Chair: Ortun Mittelsten Scheid

14:00 - 14:05 **Understanding functions of STRUCTURAL MAINTENANCE OF CHROMOSOMES 5/6 complex during generative development**

Fen Yang (CAS, Olomouc – Holic, CZ)

14:05 - 14:10 **Evolutionary conservation of the Polycomb repressive complex 2 (PRC2) and its role in photoautotrophic growth in the moss *Physcomitrella patens***

Katerina Kabelacova (CAS, České Budějovice, CZ)

14:10 - 14:15 **NAP- deletion suppresses *fas1* mutant phenotype and enhances genome stability**

Martina Nešpor Dadejová (CEITEC, Brno, CZ)

14:15 - 14:20 **The genotypic impact on the rate of spontaneous epimutations in *Arabidopsis thaliana***

Rashmi R. Hazarika (TUM, Freising, DE)

14:20 - 14:25 **Evolutionary and functional impact of epigenetic variation in forest trees (EPITREE)**

Stéphane Maury (Orléans University-INRA, FR)

14:25 - 14:30 **Evolution of DNA methylation profiles in Cape Verde *Arabidopsis***

Johan Zicola (MPIPZ, Köln, DE)

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- 14:30 - 14:45 **Resetting epigenetic memory in the plant paternal genome**
Michael Borg (GMI, Wien, AT)
- 14:45 - 15:00 **Identification of novel components of the MEDEA-containing complexes and their targets**
Sara Simonini (University of Zurich, CH)
- 15:00 - 15:15 **mHi-C reveals distinct chromatin architecture in endosperm and leaf of Arabidopsis**
Vikash Kumar Yadav (SLU, Uppsala, SE)
- 15:15 - 15:30 **Interference with CG DNA methylation by a novel RdDM mutant in Arabidopsis**
Gergely Molnár (BOKU, Tulin, AT)
- 15:30 - 15:45 **Ploidy-dependent paramutation in Arabidopsis thaliana**
Heinrich Bente (GMI, Wien, AT)

Coffee break

- 15:45 - 16:15 **Coffee and cake**

Session 3: Chromatin variations

Chair: Jiří Fajkus

- 16:15 - 16:30 **Histone H3.3 deposition in Arabidopsis**
Aline V. Probst (GReD, Clermont-Ferrand, FR)
- 16:30 - 16:45 **The repressive role of Arabidopsis H2A.Z in transcriptional regulation depends on AtBMI1 activity**
Wiam Merini (IBVF, Seville, Spain)
- 16:45 - 17:00 **Arabidopsis YAF9 histone readers modulate flowering time through NuA4-complex-dependent H4 and H2A.Z histone acetylation at FLC chromatin**
José A. Jarillo (UPM-INIA, Madrid, ES)
- 17:00 - 17:15 **NASPSIM3 functions as a CenH3 chaperone in Arabidopsis**
Inna Lermontova (CEITEC, Brno, CZ)

- 17:15 - 17:30 **Circuit of phosphorylations events on histone H2A variants during DNA damage response in *Arabidopsis***
Anna Schmücke (GMI, Wien, AT)
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- 17:30 - 17:35 **A conserved protein complex acetylates histone H4 to enable chloroplast development**
Tomasz Bieluszewski (Adam Mickiewicz University, Poznan, PL)
- 17:35 - 17:40 **The SSRP1 subunit of the FACT histone chaperone: Requirement of the HMG-box domain and role in anthocyanin induction**
Philipp Michl-Holzinger (University of Regensburg, DE)
- 17:40 - 17:45 **Isolation and characterization of negative regulators of heat stress memory**
Inês Trindade (University of Potsdam, DE)
- 17:45 - 17:50 **Tissue-specific investigations upon transposable element movement into a glucosinolate transporter**
Emma Aller (Copenhagen University, DK)
- 17:50 - 17:55 **PICKLE RELATED 1 regulates floral transition of *Arabidopsis* environmental insensitive quintuple mutant *soc1 svp flc ft tsf***
Alice Pajoro (MPIPZ, DE)
- 17:55 - 18:00 **SR45 regulates *FLOWERING LOCUS C* through RNA polymerase II checkpoint activity in *Arabidopsis***
Philip Wolff (JIC, Norwich, UK)

Shuttle bus to City Center

Dinner

- 19:00 – 21:00 **Kölsch Brewery culture and scientific discussions**
Brauhaus Sion, Unter Taschenmacher 5-7, Köln

Friday, 14. June 2019

Session 4: A tribute to Lars Hennig

Chair: Valerie Gaudin

09:00 - 09:25 **New tricks for old dogs - repurposing transposases for host epigenetic regulation**

Justin Goodrich (University Edinburgh, UK)

09:25 - 09:40 **ATRX and chromatin remodeling**

Sylvain Bischof (University of Zürich, CH)

09:40 - 09:55 **PRC2 modulates response to light during the embryo-to-seedling transition in Arabidopsis**

Iva Mozgová (Biologické centrum, České Budějovice, CZ)

09:55 - 10:10 **The Arabidopsis methylome is robust to dark-induced senescence**

Minerva S. Trejo-Arellano (SLU, Uppsala, SE)

10:10 - 10:20 **Role of chromatin-bound DEK proteins in the regulation of PRC2 target genes**

Miyuki Nakamura (SLU, Uppsala, SE)

10:20 - 10:30 **UBIQUITIN SPECIFIC PROTEASES 12 and 13 remove H2Aub1 for stable repression of responsive genes**

Lejon E. M. Kralemann (SLU, Uppsala, SE)

Coffee break

10:30 – 11:00 **Coffee and cake**

Session 5: An open view on chromatin

Chair: Klaus Grasser

- 11:00 - 11:15 **Lateral organ founder cells display cell type specific chromatin accessibility patterns within the Arabidopsis inflorescence meristem**
Julia Engelhorn (University Düsseldorf, DE)
- 11:15 - 11:30 **Ubiquitination machineries acting at the interface between light signaling and epigenome dynamics in plants**
Sandra Fonseca (CNB-CSIC, Madrid, ES)
- 11:30 - 11:45 **Role of the HMGAs proteins in chromatin dynamics and transcription**
Simon Amiard (GRED, Clermont-Ferrand, FR)
- 11:45 - 12:00 **Arabidopsis S2Lb links AtCOMPASS-like and SDG2 activity in histone H3 Lys-4 trimethylation independently from histone H2B monoubiquitination**
Clara Bourbousse (IBENS, Paris, FR)
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- 12:00 - 12:05 **Understanding and harnessing inter-individual gene expression variability in Arabidopsis thaliana**
Sandra Cortijo (Sainsbury Laboratory CU, UK)
- 12:05 - 12:10 **Bromodomains are essential for the functions of SWI/SNF complex in Arabidopsis**
Rafal Archacki (University of Warsaw, PL)
- 12:10 - 12:15 **Investigating the involvement of TELOMERE REPEAT BINDING protein mediated gene regulation in photosynthesis**
Ailbhe Jane Brazel (MPIPZ, Köln, DE)

Poster Lunch II

- 12:15 - 14:00 **Finger food and Posters**

Session 6: Chromatin and Regulation

Chair: Manuel Piñeiro

- 14:00 - 14:15 **ULTRAPETALA: at the crossroads of chromatin regulators?**
Cristel Carles (Université Grenoble, FR)
- 14:15 - 14:30 **Interplay between co-transcriptional chromatin states and transcript isoform diversity**
Sebastian Marquardt (Copenhagen University, DK)
- 14:30 - 14:45 **High-throughput precision phenotyping of a large panel of *A. thaliana* epigenetic hybrids reveals widespread heterosis in developmental traits**
Ioanna Kakoulidou (TUM, Freising, DE)
- 14:45 - 15:00 **PWO1 INTERACTORS (PWIs) interact and co-localize with components of the PcG pathway**
Sara Farrona (National University of Ireland Galway, IE)
- 15:00 - 15:15 **How to control transcriptional output? How VAL1 and VAL1-interactors limit FLC expression.**
Pawel Mikulski (JIC, Norwich, UK)
- 15:15 - 15:30 **Chromatin features predicting immunity-related transcription reprogramming in Arabidopsis**
Dmitry Lapin (MPIPZ, Köln, DE)
- 15:30 - 15:45 **Functional characterization of Super determinant 1 (Sde1) suggests an epigenetic regulation of axillary meristem initiation in Tomato**
Hernan Lopez-Marin (MPIPZ, Köln, DE)
- 15:45 – 16:00 Concluding remarks and discussion

Shuttle bus to train stations

16:00 – 16:30 *Shuttle bus to train station Bahnhof-Ehrenfeld*