



DAY 1

27th Jan 2019

Opening (13h30): Pia Cosma

1st SESSION

(13h45-16h15)

Novel super resolution approaches to visualize genome structure & dynamics

Chair: Melike Lakadamyali

13h45: Jan Ellenberg

Standardised and Quantitative Live and Super-Resolution Microscopy Tools to Analyse Chromosome Architecture

14h15: Ting Wu

Such a lot of genome to see...

14h45: Eric Joyce

Unravelling the mechanism of 3D genome folding by high-throughput FISH

15h15: Roman Barth

Live-cell imaging of chromatin at nanoscale resolution

15h35: Jan-Michael Peters

How Cohesin folds the genome

Coffee break (16h05-16h25)



DAY 1

27th Jan 2019

2nd SESSION

(16h25 to 18h55)

Chromatin organization & plasticity in early development & differentiation

Chair: Pia Cosma

16h25: Kikuë Tachibana

Chromosome segregation and 3D chromatin structure of mammalian oocytes

16h55: Jiang Liu

CTCF role in establishing 3D chromatin structure during human embryogenesis

17h25: María-Elena Torres Padilla

Epigenetic mechanisms of cellular plasticity and reprogramming to totipotency

17h55: Suzana Hadjur

Chromatin topology regulation and stem cell state plasticity

18h25: Giacomo Cavalli

3D genome organization and Polycomb proteins in development and cell differentiation

Speaker dinner (20h30)



DAY 2

28th Jan 2019

3rd SESSION

(9h00 to 11h50)

Chromatin folding: from modeling to nanoscale imaging

Chair: Eran Meshorer

09h00: Leonid Mirny

The interplay of loop extrusion and transcription

09h30: Alba Granados Corsellas

A bag-of-visual-words model for single-molecule localization microscopy data classification

09h50: Tamar Schlick

Folding genes at nucleosome resolution

Coffee break (10h20-10h40)

10h40: Pablo Gómez García

Mesoscale modelling and single molecule tracking for the study of chromatin structure and dynamics during differentiation

11h00: Claudia Cattoglio

3D genome organization and Polycomb proteins in development and cell differentiation

11h20: Yang Liu

Super-resolution imaging reveals dysregulated nanoscale chromatin folding in cancer development

Lunch break (12h-14h) with poster session



AGENDA

DAY 2

28th Jan 2019

4th SESSION

(14h00 to 16h20)

Chromatin dynamics & transcription

Chair: Jérôme Solon

14h00: Peter Becker

Chromosome organisation and global regulation of transcription

14h30: Laszlo Tora

Towards the understanding the dynamics of RNA polymerase II transcription

15h00: Marie Victoire Neguembor

Investigating the role of transcription in 3D genome folding and loop extrusion

15h20: Karsten Rippe

Regulation of gene expression by phase separation processes

15h50: Victor Corces

Mechanisms of transgenerational inheritance of obesity epiphenotypes