Workshop & Symposium Programme

Tuesday, June 13

Workshop participants (students/post-docs) & Organizer from Paris: Arrival & over-night stay in hotel Free evening in Munich for workshop participants

Wednesday, June 14

Workshop I:

8:45 - 9:00	Welcome and icebreaker activity for workshop
9:00 - 10:30	Introduction of participants I (10 PhD students/post-docs) (round table, chalk talk - background/interest, ~8 minutes each)

Coffee break in Foyer

11:00 - 12:30	Introduction of participants II (10 PhD students/post-docs)
	(round table, chalk talk - background/interest, ~8 minutes each)

Lunch (MPI canteen)

- 13:30 14:15 Lecture: General introduction to epigenetics Pierre-Antoine Defossez
- 14:15 15:00 Lecture: Epigenetic enzymes and mechanisms Heinrich Leonhardt

Coffee break in Foyer

15:30 - 16:15	Lecture: Techniques to study epigenetic phenomena - Till Bartke
16:15 - 16:30	Presentation: 'Why we organize meetings' - Pierre-Antoine Defossez

Symposium:

- 15:00 17:00 Registration open arrival of speakers & general participants
- 17:00 17:15 Welcome and introduction for symposium by the Organizers
- Session 1 DNA Methylation I Chair: Heinrich Leonhardt
- 17:15 17:45 **THOMAS CARELL** (CuP, LMU Munich) High and specific anti-leukemic activity with a carbocyclic 5-azacytosine-based DNMT inhibitor

- 17:45 18:15 MAXIM GREENBERG (Institut Jacques Monod, Paris) Non-canonical functions of DNA methylation during epigenetic reprogramming in mammals
- 18:15 19:00 EMBO YIP guest lecturer EDDA SCHULZ (MPI Molecular Genetics Berlin) Signal decoding at the Xist locus

Speakers' dinner (Biergarten Waldheim) Free evening in Munich for students/post-docs and other participants

Thursday, June 15

Session 2 – DNA Methylation II – Chair: Pierre-Antoine Defossez

- 09:00 09:30 **DÉBORAH BOURC'HIS** (Institut Curie, Paris) DNA methylation and methylation control during early cellular decisions
- 09:30 10:00 HEINRICH LEONHARDT (Human Genetics & BioImaging, LMU Munich) Regulation of DNA modifications in mammals
- 10:00 10:15 Short talk Annika Menke (CuP, LMU Munich) Modelling TET Enzyme Reactivity with Synthetic Iron(IV)-oxido Complexes and a Variety of Epigenetically Relevant Substrates
- 10:15 10:30 Short talk Margherita Mori (Université Paris Cité) Deciphering DNA methylation maintenance mechanisms in response to UV damage in mammalian cells

Coffee break in Foyer

Session 3 - Quantitative Approaches – Chair: Kikuë Tachibana

- 11:00 11:30 MARIA COLOMÉ-TATCHÉ (Physiological Chemistry, LMU Munich) Studying heterogeneity in cell populations with epigenomic measurements
- 11:30 12:00 **TILL BARTKE** (Helmholtz Munich) Decoding chromatin states by proteomic profiling of modification-dependent nucleosome readers
- 12:00 12:15 Short talk Erika Chacin (BMC, LMU Munich) Establishment and function of chromatin organization at replication origins
- 12:15 12:30 Short talk Julien Richard Albert (Institut Jacques Monod, Paris) Epigenetic switcheroo: A genetic and computational approach to investigate the interplay between DNA methylation and Polycomb in mouse development
- 12:30 13:00 10 Poster Flash Talks (2.5 min. each) Yixuan Fu (University of Zurich), Teresa Urli (Institut Jacques Monod, Paris), Xiaoying Chen (Université Paris Cité), Emmanuel García Sánchez (IGBMC, Illkirch, France), Franziska Greulich (TU Munich), Arohi Khurana (IFE, Helmholtz Munich), Marlet Morales-Franco (Helmholtz Munich), Sandra Nitsch (IFE, Helmholtz Munich), Bihter Özdemir-Aygenli (IFE, Helmholtz Munich), Anuroop V Venkatasubramani (BMC, LMU Munich)

(Thursday, June 15)

Lunch break (MPI Canteen) - "Meet the Speakers" for students/post-docs

14:00 – 16:00 – POSTER SESSION (including selection of poster prize)

Coffee, drinks and light snacks available in Foyer

- Session 4 Chromatin Regulation Chair: Sophie Polo
- 16:00 16:30 **PIERRE-ANTOINE DEFOSSEZ** (Université Paris Cité) New functions of UHRF1 in DNA methylation
- 16:30 17:00 **RAPHAËL MARGUERON** (Institut Curie Paris) Polycomb complex PRC2 regulation in the germline
- 17:00 17:15 Short talk Marlies Oomen (IES, Helmholtz Munich) The transcriptional repertoire of transposable elements during mammalian preimplantation development
- 17:15 17:30 Short talk **Emeline Roger** (Institut Curie Paris) Chromatin and TE control: yet another discovered pathway

Coffee break in Foyer

- 18:00 18:30 **CLAIRE ROUGEULLE** (Université Paris Cité) Control of X chromosome activity in early primate development
- 18:30 19:00 **KIKUË TACHIBANA** (MPI Biochemistry, Martinsried) Orphan nuclear receptor Nr5a2 is the "spark of life" that awakens the zygotic genome
- 19:00 19:30 MARIA ELENA TORRES-PADILLA (IES, Helmholtz Munich) Epigenetic mechanisms of cellular plasticity and reprogramming to totipotency

Buffet Dinner, Mix & Mingle with drinks and music in the MPI Canteen

Friday, June 16

- Session 5 Chromatin Dynamics Chair: Till Bartke
- 09:00 09:30 **GENEVIÈVE ALMOUZNI** (Institut Curie Paris) Histones variants and friends, a state of play for shaping chromatin and cell fate
- 09:30 10:00 **SOPHIE POLO** (Université Paris Cité) Mitotic chromatin marking governs asymmetric segregation of DNA damage
- 10:00 10:15 Short talk Anupam Bhoi (TU Dresden) Conformational Dynamics of the ISWI nucleosome remodelling enzyme
- 10:15 10:30 Short talk Lena Paasche (Institute for Genetics, JLU Giessen) Function of the H2A.Z-associated protein ZNF512B in differentiation and chromatin organization processes

(Friday, June 16)

Coffee break

- 11:00 11:15 Short talk Lexi Gao (MPI Biochemistry, Martinsried) Transfer RNA pools in human cells are controlled by selective gene expression
- 11:15 11:30 Short talk Vera Manelli (Helmholtz Munich) Neurog2 and its cofactors as potential drivers of enhancer-promoter contacts during mouse cortical development
- 11:30 12:00 **PETER BECKER** (Molecular Biology, LMU Munich) Analysis of transcription factor interactions with in vitro-assembled naïve embryonic chromatin
- 12:00 12:15 Poster/Short Talk prizes and concluding remarks

End of Symposium - departure of speakers & general participants

Lunch - workshop participants, organizers, and workshop lecturers (MPI canteen)

Workshop II:

14:00 - 15:00	Lecture: Communication in science - Alison Abbott
	(science journalist/senior European correspondent at Nature)

Coffee break

- 15:30 16:30 Career talks ~15 min per speaker (career path & current job)
 - 1. Presentation Academic/PI: **Daphne Cabianca** (junior PI - IFE/Helmholtz Zentrum München)
 - 2. Presentation Biotech start-up company: **Moritz Völker-Albert** (CEO - LMU Munich spin-off company EpiQMax)
 - 3. Presentation Large pharma company: Elke Glasmacher (Global Head of Discovery Science - Roche)
 - 4. Presentation Journal editor: **Poonam Bheda** (senior editor - Nature Communications)

Coffee break

17:00 - 18:00 Open discussion & free questions from workshop participants

 Workshop speakers & organizers

Zoom link - Session career talks Paris Munich Epigenetics Workshop and Symposium 2023

 Time: Jun 16, 2023 03:30 PM Amsterdam, Berlin, Rome, Stockholm, Vienna https://mpi-biochemistry.zoom.us/j/64544414800

Meeting ID: 645 4441 4800 Passcode: 544238

18:00 Concluding remarks - End of workshop

Farewell drinks and dinner – workshop participants, organizers, and workshop lecturers (restaurant Erdinger Weißbräu, Großhadern)

Workshop participants (students/post-docs) & Organizer from Paris: over-night stay in hotel

Saturday, June 17

Departure of workshop participants (students/post-docs) & Organizer from Paris