Wednesday, March 6, 2019

14:00 – 15:40 *Registration*

15:40 – 15:45 Franz Klein, University of Vienna, Austria

Welcome Address (Chair for opening lecture)

15:45 – 16:30 Kim Nasmyth, University of Oxford, UK

Opening Lecture "Cohesin's interactions with DNA in vivo and in vitro: a Hawk's eye view"

Chair: Kikue Tachibana

16:30 – 17:00 Kikue Tachibana, IMBA, Vienna, Austria

"What determines the physiological ageing of mammalian oocytes?"

17:00 – 17:30 Juraj Gregan, Comenius University, Bratislava, Slovakia

"Mutations that prevent methylation of cohesin render sensitivity to DNA damage in *S. pombe"*

17:30 – 18:00 Jan-Michael Peters, IMP, Vienna, Austria

"How cohesin folds the genome"

18:00 – 18:30 Mauro Modesti, Centre de Recherche en Cancérologie de Marseille, France

"Dynamics and mechanics of DNA tethering by Non-Homologous End Joining factors and by the MRE11/RAD50/NBS1 complex"

18:30 – 19:00 Terence Strick, Institut Jacques Monod, CNRS, Paris, France

"Single-molecule approaches to the study of DNA repair: the case of NHEJ"

Sushi & Dumplings

19:30 – 20:30 Poster Presentation

(presenters will be available, posters will be up for all three days)

Thursday, March 7, 2019

Chair: Stefan Westermann

08:45 – 09:30 Jan Ellenberg, EMBL, Heidelberg, Germany

„Imaging chromosome structure and dynamics in single cells by quantitative live and super-resolution imaging"

09:30 – 10:00 Stefan Westermann, University of Duisburg, Essen, Germany

"Molecular mechanisms regulating kinetochore assembly in budding yeast"

10:00 – 10:30 Evi Soutoglou, University of Strasbourg, France

"Double strand break relocation correlates with heterochromatic repeat clustering"

10:30 – 11:00 Matthias Altmeyer, University of Zürich, Switzerland

"Phase separation of 53BP1 ascertains liquid-like behavior of DNA repair compartments"

Coffee Break

Chair: Dea Slade

11:30 – 12:00 Dea Slade, University of Vienna, Austria

"Transcription regulation through RNA polymerase II C-terminal domain (CTD)"

12:00 – 12:30 Karel Riha, CEITEC, Brno, Czech Republic

"RNA processing in pant germline differentiation"

12:30 – 13:00 Kevin Corbett, Ludwig Institute of Cancer Research, La Jolla, USA

"Multi-scale analysis of meiotic chromosome structure and function"

Lunch

Chair: Peter Schlögelhofer

14:15 – 14:45	Akira Shinohara, Osaka University, Japan
	"Human RAD51 paralog, SWSAP1, promotes RAD51 assembly by regulating the anti-recombinase, FIGNL1 AAA+ ATPase"
14:45 – 15:15	Nancy Hollingsworth, Stony Brook University, NY, USA
	"Interhomolog recombination and meiotic progression in yeast are coordinately regulated by the meiosis-specific kinase Mek1"
15:15 – 15:45	Peter Schlögelhofer, University of Vienna, Austria
	"Meiotic DNA repair in the nucleolus employs a non-homologous end joining mechanism"
15:45 – 16:15	Karl Mechtler, IMP, Vienna, Austria
	"Single Cell Proteomics"
16:15 – 16:45	Markus Hartl, University of Vienna, Austria
	"Identifying protein kinase–specific and phosphatase-specific effectors of the osmostress response in yeast"

For speakers:

17:00	*Bus Shuttle to Schönbrunn*
17:30 – 18:30	*Apfelstrudel-Seminar*
18:30 – 20:00	*Guided Tour*
20:00	*Dinner at Café Restaurant Residenz, Schönbrunn*
22:00	*Bus Shuttle return*

Friday, March 8, 2019

Chair: Verena Jantsch

09:00 – 09:30 Bryan Gibson, University of Texas, USA

"Organization and Regulation of Chromatin by Liquid-Liquid Phase Separation"

09:30 – 10:00 Ofer Rog, University of Utah, USA

"The synaptonemal complex is a chromosome-wide liquid-like compartment that regulates meiotic crossovers"

10:00 – 10:30 Verena Jantsch, University of Vienna, Austria

"Meiotic chromosome movement: what's lamin got to do with it?"

10:30 – 11:00 Andrés Aguilera, Universidad de Sevilla, Spain

"Factors and mechanisms preventing R loop-mediated genome instability"

Coffee Break

Chair: Andrés Aguilera

11:30 – 12:00 Joaquim Roca, Spanish National Research Council, Barcelona, Spain

"Inferring chromatin architecture from DNA knots"

12:00 – 12:30 Franz Klein, University of Vienna, Austria

"A possible role for secondary structure in meiotic recombination initiation"

Lunch

Chair: Alain Nicolas

14:00 – 14:30 Michael Lichten, National Cancer Institute, Bethesda, USA

"Fine structure analysis of noncrossover and crossover formation during budding yeast meiosis"

14:30 – 15:00 Valerie Borde, Institute Curie, Paris Cedex, France

"Control and role of DNA synthesis during meiotic recombination"

15:00 – 15:30 Bertrand Llorente, Cancer Research Center of Marseille, France

"Lessons from meiotic heteroduplex DNA tracts"

15:30 – 16:00 Alain Nicolas, Institut Curie, Paris Cedex, France

"Uniqueness and dynamics of mutational landscapes in *S. cerevisiae* diploids"

Coffee Break

Chair: Daniel Gerlich

16:30 – 17:00 Wei Xie, Tsinghua University, Beijing, China

"Chromatin reprogramming in mammalian gametogenesis and early development"

17:00 – 17:30 Christian Zierhut, The Rockefeller University, New York, USA

"Nucleosomes as signals of healthy DNA: Regulation and consequences of inflammatory cytoplasmic DNA sensing during mitosis"

Dinner at Marx Restauration

Chair: Daniel Gerlich

19:30 – 20:00 Francesco S. Tedesco, University College, London, UK

"Engineering human artificial chromosomes and myogenic stem cells for next-generation gene and cell therapies of muscular dystrophy"

20:00 – 20:30 Greg Copenhaver, UNC Chapel Hill, USA

"Small RNAs Associated with Meiotic DSBs and CO Hotspots"

20:30 – 21:00 Daniel Gerlich, IMBA, Vienna, Austria

"Chromosome mechanics during nuclear assembly"

21:00-21:05 *Concluding Remarks (Franz Klein)*