

Mechanisms of Chromosome Biology

Niels Jerne Auditorium, Panum Institute, Blegdamsvej 3b, 2200 Copenhagen

Thursday 18th June

09.00-09.10 Welcome, Jesper Svejstrup

Chair: Anja Groth

09.10-09.35 KJ Patel, Oxford University – *Endogenous DNA damage and its impact on vertebrate stem cells*

09.35-10.00 Maria Jasin, MSKCC – *Homologous DNA recombination*

10.00-10.25 John Diffley, FCI – *Mechanisms of eukaryotic DNA replication*

10.25-10.50 Jesper Svejstrup, UCPH – *Transcription and its interface with Replication and DNA repair*

10.50-11.20 Tea/Coffee break

11.20-11.45 John Maciejowski, MSKCC – *Telomere dysfunction and genome instability*

11.45-12.10 Andrew Blackford, UCPH - *How cells deal with broken chromosomes in mitosis*

12.10-12.35 Simon Powell, MSKCC - *How the 9-1-1 complex maintains the viability of BRCA2-deficient cells*

12.35-13.00 Kathleen Stewart-Morgan, UCPH – *New Insights into Germ Cell Reprogramming*

13.00-14.10 Lunch – “meet the speakers”

Chair: Stewart Shuman

14.10-14.35 Agnel Sfeir, MSKCC - *Error-prone DNA repair*

14.35-15.00 Ian Hickson, UCPH - *Targeting aneuploidy in cancer*

15.00-15.25 Xiaodong Zhang, FCI – *Structures and Molecular Mechanisms of Recombination Modulators*

15.25-15.50 Tea/Coffee break

15.50-16.15 Fena Ochs, UCPH – *3D chromatin organization by cohesin*

16.15-16.40 Alessandro Costa, FCI – *Initiation of DNA replication. Step by step, atom by atom*

Friday 19th June

Chair: Eva Hoffman

09.00-09.25	Dirk Remus, MSKCC – <i>DNA Replication stress</i>
09.25-09.50	Niels Mailand, DCI - <i>DNA-protein crosslink repair in the chromatin environment</i>
09.50-10.15	Simon Boulton, FCI – <i>Telomere functions at a single molecule level</i>
10.15-10.40	Julien Duxin, UCPH - <i>ZATT (ZNF451) Enables TOP2 Self-Mediated DNA Re-ligation and Release from Stalled Cleavage Complexes</i>
10.40-11.10	Tea/Coffee break
11.10-11.35	John Petrini, MSKCC – <i>DNA Double-strand break repair</i>
11.35-12.00	Frank Uhlmann, FCI – <i>Establishment of sister chromatid cohesion during DNA replication</i>
12.00-12.25	Xiaolan Zhao, MSKCC – <i>the three Rs: the DNA Replication, Repair, and damage Response</i>
12.25-12.50	Lea Gregersen, UCPH – <i>Oxidative stress triggers a unique, transient and dynamic transcriptional response</i>
12.50-14.00	Lunch

Chair: John Diffley

14.00-14.25	Iestyn Whitehouse, MSKCC – <i>Impact of chromatin on DNA replication, transcription and epigenetics</i>
14.25-14.50	Tom Miller, UCPH - <i>A novel approach for visualising the mechanisms of vertebrate DNA replication by cryo-EM</i>
14.50-15.15	Hasan Yardimci, FCI – <i>A molecular trigger for replication fork collapse</i>
15.15-15.40	Tea/Coffee break
15.40-16.05	Scott Keeney, MSKCC – <i>Meiotic DNA recombination</i>
16.05-16.30	Anja Groth, DCI – <i>Chromatin Replication - How Cells Copy their Epigenome</i>