



Nobel Minisymposium No. 52 in the series Frontiers in Medicine

Epigenetics in Health and Disease

Nobel Forum, Karolinska Institutet, Stockholm April 23rd, 2015

- 9:00- 9:10 Welcome Note - Anna Krook
Chair: Karl Ekwall
- 9:10- 9:45 *DNA methylation and other CpG signalling*
Adrian Bird, The Wellcome Trust Centre for Cell Biology, University of Edinburgh, UK
- 9:45- 10:20 *Mechanical disassembly and reassembly of reproduction in mammals*
Oliver Rando, Department of Biochemistry and Molecular Pharmacology, University of Massachusetts, USA
- 10:20- 10:50 COFFEE BREAK
Chair: Tomas Ekström
- 10:50- 11:25 *Epigenetics at the Epicenter of Genes and the Environment in Common Human Disease*
Andrew P. Feinberg, Center for Epigenetics, Johns Hopkins University, USA
- 11:25-12:00 *Contrasting genetic architectures of complex traits in mouse models of human conditions*
Joseph H. Nadeau, Pacific Northwest Research Institute, USA
- 12:00-13:00 LUNCH
Chair: Anna Wedell
- 13:00- 13:35 *Epigenetic changes during aging in human adult stem cells*
Mario F. Fraga, National Centre of Biotechnology (CNB-CSIS), Spain
- 13:35-14:10 *Epigenetic and metabolic regulation of aging*
Anne Brunet, Department of Genetics, Stanford University, USA
- 14:10-14:40 COFFEE BREAK
Chair: Juha Kere
- 14:40-15:15 *Addressing the confounding effect of cellular heterogeneity in studies of DNA methylation*
Martin Aryee, Department of Pathology, Massachusetts General Hospital & Harvard Medical School, USA
- 15:15-15:50 *Human RNA sequencing analysis for research, diagnostic and prognostic studies*
Thomas Tuschl, Howard Hughes Medical Institute, Laboratory of RNA Molecular Biology, Rockefeller University, USA
- 15:50-16:00 CLOSING REMARKS
Anna Krook