

Invited speakers (preliminary)

Chromosome structure and function (6)

Wendy Bickmore (UK) *Chromosome organization during differentiation and development*

Dean Jackson (UK) *A detailed analysis of chromosome architecture using bioinformatic reconstruction of chromatin states*

Charles Lee (USA) * *Structural genomic variation from next generation DNA sequencing*

Rachel O'Neill (USA) *Non coding RNA and centromere stability*

Mariano Rocchi (IT) *Neocentromere and centromere evolution*

Miroslav Plohl (HR) *Genomic composition and turnover of satellite DNA repeats*

Sex chromosomes (4)

Jenny Graves (AU) * *Evolving new sex chromosomes and sex determining genes*

Frantisek Marec (CZ) *Evolution of sex chromosomes in moths and butterflies*

Willem Rens (UK) *Vertebrate sex determination: how does it fit together ?*

Manfred Schartl (D) *Evolution of sex determination mechanisms and sex chromosome in fish*

Nuclear organization and dynamics (6)

Andrew Belmont (USA) *Interphase chromosome positioning and repositioning*

Cristina Cardoso (D) *Control of chromosome duplication in mammals*

Maiwen Caudron-Herger (D) *RNA and nuclear structure*

Greg Copenhaver (USA) *Regulation of meiotic recombination in Arabidopsis*

Erich Nigg (CH) * *Cell cycle control of chromosome segregation*

Aurora Storlazzi (IT) *Meiotic chromosome pairing in Sordaria macrospora. Interplay between chromosome structure and recombination*

Advances in imaging and molecular technology (1)

Thomas Cremer (D) *Nuclear architecture during development and differentiation studied with high-resolution fluorescence microscopy*

Chromosome and genome evolution (6)

Dino Di Berardino (IT) * *Chromosomal abnormalities in IVP pre-implantation bovine embryos: an up-date*

Silvia Garagna (IT) *The Robertsonian mouse model: a meiotic perspective*

Darren Griffin (UK) * *The avian genome and evolutionary dynamics. The role of EBRs and HSBs*

Miguel Moreno-Millan (ES) *Clinical cytogenetic in horses: cases in Spanish pure breed (PRE)*

Trude Schwarzacher (UK) *Polyloid genome evolution in crop plants*

Roscoe Stanyon (IT) *The evolution of mammalian chromosomes: hypotheses from syntenic associations*

Chromosomal aberrations and disease (5)

Francesco Fiorentino (IT) *Chromosomal microarray analysis as a first-line test in high- and low-risk pregnancies.*

Luca Gianaroli (IT) *The use of Microarray for aneuploidy screening and translocations in oocytes and embryos*

Darren Griffin (UK) *Universal approaches for detecting genetic disease in IVF embryos: towards understanding the cytogenetics of early human development*

Helen Tempest (USA) *The chromosomal basis of male infertility*

Orsetta Zuffardi (IT) * *Within the genome: the new medicine*