

 <b>15th European Cytogenomics Conference</b> <b>Leuven, June 29-July 1, 2025</b>	
<b>Sunday June 29</b>	
9:30-12:45	<b>Hands-on workshops:</b> ( <a href="http://www.biologia.uniba.it/SEC/Workshops.html">http://www.biologia.uniba.it/SEC/Workshops.html</a> )
14:00-17:50	<b>Permanent Working Groups</b>
<b>Room 1</b>	
14:30-16:30	<i>Animal, Plant, and Comparative Cytogenetics (P. Heslop-Harrison - V. Fillon)</i>
16:30-17:30	<i>Chromosomes' Integrity, Stability, and Dynamics (J. Garcia-Sagredo - E. Volpi)</i>
<b>Room 2</b>	
14:30-15:30	<i>Marker Chromosomes (L. Marques Carreira - T. Liehr)</i>
15:30-17:30	<i>Clinical and Molecular Approaches to Cytogenetic Syndromes &amp; Cytogenomics (J. Vermeesch - A. Lindstrand - D. Sanlaville)</i>
<b>Room 3</b>	
14:30-16:30	<i>Neoplasia (H. Rieder - P. Caria)</i>
16:30-17:30	<i>Prenatal Diagnosis (R. Pinto Leite - J.-M. Dupont)</i>
18:00-19:00	Opening lecture-Evan E. Eichler: Complete chromosomes and complex genomes. Room... Chaired by Mariano Rocchi and Joris Vermeesch
<b>Monday June 30</b>	
8:30-10:15	Plenary session 1 - Structural variation in health and disease. Room... Chaired by Joris Vermeesch and Anna Lindstrand
8:30-9:00	Alexander Reymond   The pleiotropic spectrum of proximal 16p11.2 CNVs
9:00-9:30	David Porubsky   Structural variation of 22q11.2 region in normal and diseased human population
9:30-10:00	Tobias Marschall   Mapping structural variation in the pangenome
10:00-10:15	Nivin Moustafa-Hawash   Optical Genome Mapping in the clinic reveals germline and somatic findings that may influence the treatment approach
Coffee break	
10:45-12:00	Plenary session 2 - Complexity of cancer genomes. Room... Chaired by Roberta Vanni and Barbara Dewaele
10:45-11:15	Jonas Demeulemeester   Multimomic long-read sequencing to improve diagnosis and care of genomically complex sarcomas
11:15-11:45	Stefano Santaguida   Mechanistic insights into the consequences of chromosome segregation errors on cell physiology
11:45-12:00	Amber Verhasselt   Optical Genome Mapping is a powerful diagnostic tool in non Hodgkin lymphoma
12:00-12:15	Sule Altiner   Cytogenetic profile of hematological malignancies with complex karyotype a single center study from Turkey
Poster session	
14:30-15:45	Concurrent Session 1 - Meiosis and Mitosis. Room... Chaired by Jean-Michel Dupont and Elisabeth Syk Lundberg
14:30-15:00	Marta De Ruijter-Villani   Meiosis/mitosis transition
15:00-15:30	Carolina Villarroya-Beltri   Mosaic variegated aneuploidy in development, ageing and cancer
14:30-15:45	Concurrent Session 2 - Automation and AI in Clinical Genetics. Room... Chaired by Barbara Dewaele and Thierry Lavabre-Bertrand
14:30-15:00	Claudia Haferlach   Application of AI in hematological diagnostics
15:00-15:30	Robert Kuhn   Online resources at UCSC
Coffee break	
15:45-17:30	Plenary Session 3 - Clinical Cytogenomics. Room... Chaired by Damien Sanlaville and Orsetta Zuffardi
15:5-16:15	Thomas Bourgeron   The genetic architecture of autism: from medicine to neurodiversity
16:15-16:45	Jesper Eisfeldt   Long read genome sequencing in clinical cytogenomics
16:45-17:15	Andrea Cioffi   DNA methylation profiling as a diagnostic tool
17:15-17:30	Dominik Režný   Precision approaches in clinical cytogenomics the role of optical genome mapping and long read sequencing in structural variant detection
17:30-18:30	Poster session
<b>Tuesday July 1</b>	
8:30-10:30	Plenary Session 4 - Animal, Plant and Comparative Cytogenomics. Room... Chaired by Pat Heslop-Harrison and Mariano Rocchi
8:30-9:00	Aurora Ruiz-Herrera   Evolution and function of 3D chromatin folding
9:00-9:30	Julie Sardos   Diversity and diversification in banana: how in silico chromosome painting opens new perspectives for the conservation and use of an iconic fruit
9:30-10:00	Pat Heslop-Harrison   What cytogenomics has done, and is doing, for agriculture in our world
10:00-10:15	Simon Mallet   Interstitial telomeric sequences and accumulation of dna damage hallmarks of genomic instability in cancer resistant wild vertebrates
10:15-10:30	Fengtang Yang   Genomic complexity and evolutionary plasticity in dugesia japonica revealed by multi ploidy chromosome level assemblies
Coffee break	
11:00-12:15	Concurrent Session 3 - Nuclear organisation and disease. Room... Chaired by Emanuela Volpi and Pat Heslop-Harrison
11:00-11:30	Martin Mensah   Nucleolar dysfunction in rare genetic diseases
11:30-12:00	Cristina Cardoso   Epigenetic reprogramming and disease
12:00-12:15	Lusine Nazaryan-Petersen   Detection of structural variants by short-read whole genome sequencing and interpretation for genetic diagnosis
11:00-12:15	Concurrent Session 4 - Clonal correction of constitutional chromosome imbalances. Room... Chaired by Damien Sanlaville and Orsetta Zuffardi
11:00-11:30	Diane Van Opstal   Placental cytogenetic studies provide a glimpse into the black box of early embryogenesis
11:30-12:00	Alfredo Brusco   Somatic recombination and the removal of the structural variant: any phenotypic outcome?
12:00-12:15	Anikó Ujfalusi   Evaluation of X inactivation pattern in carriers of X chromosome aberrations and DMD gene mutations
Poster session	
14:00-15:45	Concurrent Session 5 - Accreditation and workshop on ISCN. Room... Chaired by Franck Pellestor and Harald Rieder
14:00-14:30	Konstantin Miller   ISO15189 and cytogenetic laboratories
14:30-15:45	Jean-Michel Dupont   Workshop on ISCN 2024
14:00-15:15	Concurrent Session 6 - Applied Cytogenotoxicity. Room... Chaired by José Garcia Sagredo and Joan Blanco
14:00-14:30	Alba Hernandez Bonilla   Genotoxicity and carcinogenicity of long-term micro- & nanoplastics exposure: current understanding and future directions
14:30-15:00	Ans Baeyens   Chromosomal radiosensitivity testing for inborn errors of immunity
15:00-15:15	Marlene Ek   Long-read genome sequencing enhances diagnosis of pediatric neurological disorders
Coffee break	
16:15-17:30	Plenary Session 5 - Prenatal Diagnosis and Preimplantation. Room... Chaired by Elisabeth Syk Lundberg and Rosario Pinto Leite
16:15-16:45	Alan Handyside   PGT, with a focus on aneuploidies
16:45-17:15	Nathalie Janel   Prenatal treatment of chromosomal anomalies
17:15-17:30	Charlotte Tardy   Transforming prenatal cytogenetics rapid chromosomal rearrangement characterization with Nanopore sequencing
17:30-18:30	Closing keynote. Joris Vermeesch: Cytogenomics, where we are and where we are heading. Room... Chaired by Mariano Rocchi and Jean-Michel Dupont
18:30	Closing ceremony