

PROGRAM

1st July 2023, Saturday

14:30 - 17:30 Workshops and Discussion Meetings of Permanent Working Groups

14:30 - 16:30 1. ISCN Workshop (una tantum) & Quality Issues, Training and Cytogenomics

Jean-Michel Dupont; Martine Doco-Fenzy

14:30 - 16:30 2. Neoplasia (former "Haematological Malignancy" &

"Solid Tumor Studies"

Harald Rieder; Paola Caria, Roberta Vanni

14:30 - 15:30 3. Prenatal Diagnosis

Rosario Carvalho Pinto Leite; Jean-Michel Dupont

15:30 - 17:30 4. Clinical and Molecular Approaches to Cytogenetic Syndromes & Cytogenomics

Joris Vermeesch; Anna Lindstrand; Damien Sanlaville

15:30 - 17:30 5. Animal, Plant, and Comparative Cytogenetics

Pat Heslop-Harrison; Valerie Fillon

16:30 - 17:30 6. Chromosomes' Integrity, Stability, and Dynamics

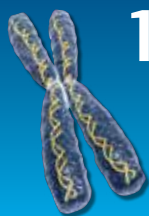
Jose M. Garcia-Sagredo; Emanuela Volpi

16:30 - 17:30 7. Marker Chromosomes

Isabel Marques Carreira; Thomas Liehr

18:00 - 19:00 Opening lecture

Aneuploidy in the Maternal Germline - Eva Ran Hoffmann



PROGRAM

2nd July 2023, Sunday

08:30 - 10:15 Plenary session 1 - Mosaicism: from Preimplantation Embryos to Aging

08:30 - 09:00 Mosaicism in Preimplantation Embryos - *Antonio Capalbo*

09:00 - 09:30 Mosaicism in Prenatal Diagnosis: from NIPT to Amniocytes Investigation

Malgorzata I. Srebniak

09:00 - 10:00 Hematopoietic Loss of Chromosome Y and Higher Mortality in Men - *Lars A. Forsberg*

10:00 - 10:15 Selected Abstracts

10:15 - 10:45 Coffee Break

10:45 - 12:00 Plenary session 2 - Cancer Cytogenomics

10:45 - 11:15 Replication Stress Generates Distinctive Landscapes of DNA Copy Number Alterations and Chromosome Scale Losses in Cancer

Sarah McClelland

11:15 - 11:45 Whole-Genome Duplication Shapes the Aneuploidy Landscape of Human Cancers - *Uri Ben-David*

11:45 - 12:00 Selected Abstracts

12:00 - 14:30 Lunch & Poster Session

14:30 - 15:45 Concurrent Session 3 - Recent Advances in Cytogenomics

14:30 - 15:00 Optical Mapping to Karyotype - *Alex Hoischen*

15:00 - 15:30 Artificial Intelligence in Cytogenetics - *Antonio Rausell*

15:30 - 15:45 Selected Abstracts

14:30 - 15:45 Concurrent Session 4 - Beyond Genome Sequencing: The Epigenetic Signature

14:30 - 15:00 DNA Methylation Episignatures Associated with Large Structural Copy Number Variants: Clinical Implications - *Bekim Sadikovic*

15:00 - 15:30 Multi-locus imprinting disorders - *Karen Temple*

15:30 - 15:45 Selected Abstracts

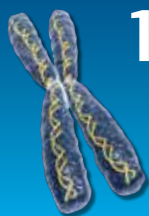
15:45 - 16:15 Coffee Break

16:15 - 17:30 Plenary session 3 - Newly Emerged Technologies in Cytogenomics

16:15 - 16:45 Paint-SHOP; Genome-Scale Oligonucleotide FISH Experiments
Brian Beliveau

16:45 - 17:30 Interactive Discussion: Massive Oligonucleotide Pools to Track Organization and Evolution of Chromosomes and Genomes
Pat Heslop-Harrison & Emanuela Volpi

17:30 - 18:30 Poster Session



PROGRAM

3rd July 2023, Monday

08:30 - 10:30 Plenary session 4 - Clinical Cytogenomics

08:30 - 09:00 Complex Genomic Rearrangements: An Underestimated Cause of Rare Diseases
Anna Lindstrand

09:00 - 09:30 Distal Germ-Line Deletions in Mosaic with Copy-Neutral Loss of Heterozygosity: Something to be Considered in Genetic Counselling
Orsetta Zuffardi

09:30 - 10:00 From Gene Disruption to Missense Variants: How Different Types of Variants Influence the X-Linked Inheritance Model - *Brunella Franco*

10:00 - 10:30 Selected Abstracts

10:30 - 11:00 Coffee Break

11:00 - 12:15 Concurrent Session 5 - Clinical Cytogenomics 2

11:00 - 11:30 Structural Variants in Clinical Practice Using Short Read WGS - *Nicolas Chatron*

11:30 - 12:00 Constitutional Chromoagenesis: From Diagnosis to Genetic Counselling
Caroline Schluth-Bolard

12:00 - 12:15 Selected Abstracts

11:00 - 12:15 Concurrent Session 6 - Animal and Plant Cytogenomics I

11:00 - 11:30 Comparative Genomics and Tools for Studying Chromosome Evolution - *Mathieu Rouard*

11:30 - 12:00 Coleopteran Satellite Profiles: Chromosomal and Sequence Organization - *Brankica Mravinac*

12:00 - 12:15 Selected Abstracts

12:15 - 14:30 Lunch & Poster Session

14:30 - 15:45 Plenary session 5: Nuclear Organization and Disease

14:30 - 14:55 The Role of 3D Genome Organization in The Regulation of Gene Expression and Cell Fate
Giacomo Cavalli

15:00 - 15:30 Spatial Organization of Transcribed Eukaryotic Genes - *Irina Solovei*

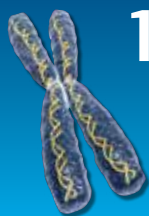
15:30 - 15:45 Selected Abstracts

15:45 - 16:15 Coffee Break

16:15-17:30 Concurrent Session 7 - Animal and Plant Cytogenomics II

16:15 - 16:45 Adding a Chromosome Perspective to Plant Genomics: Making Sense of Retained Retroviruses, Moving Retrotransposons and Expanding Satellite DNAs - *Tony Heitkam*

17:15 - 17:30 Selected Abstracts



14th EUROPEAN CYTOGENOMICS CONFERENCE

1 - 4 July 2023

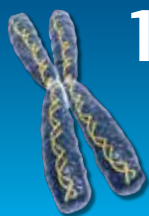
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PROGRAM

3rd July 2023, Monday

- 16:15 - 17:30** **Concurrent Session 8 - Accreditation, Quality Control and Education**
- 16:15 - 16:45 The New ISO 15189 Standard Medical Laboratories
Folker Spitzenberger
- 16:45 - 17:15 Sequence-based Nomenclature and the Novelties to Come in the Next ISCN Version
Johan den Dunnen
- 17:15 - 17:30 Selected Abstracts
- 17:30 - 18:30** **Poster Session**



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PROGRAM

4th July 2023, Tuesday

08:30 - 10:30 Plenary session 6 - Prenatal Diagnosis and preimplantation

08:30 - 09:00 Genome-Wide Non-Invasive Prenatal Testing: Follow-Up Results of the TRIDENT-2 Study - *Robert-Jan H. Galjaard*

09:00 - 09:30 Fragmentomics and Non-Invasive Prenatal Screening (NIPS) - *Joris Vermeesch*

09:30 - 10:00 Prenatal Diagnostic Yield and Pitfalls Through Arrays, Exome, and NIPT - *Lyn Chitty*

10:00 - 10:30 Selected Abstracts

10:30 - 11:00 Coffee Break

11:00 - 11:50 Closing Keynote

The Landscape of Structural Variation Across Diverse Global Populations and Developmental Disorders - *Michael E. Talkowski*

11:50 Closing Ceremony