15th European Cytogenomics Conference
Leuven, June 29-July 1, 2025

Rooms The rooms of plenary and concurrent sessions (GA0 and GA1) are on the same floor as the reception area, posters, and company booths. Due to the building's underground levels, this is considered the 4th floor. Consequently, rooms ALO 0**5**.xxx, and ALO **7**.xxx are located one, and three floors above the GA0/GA1 rooms, respectively.

TIME	SPEAKERS	PRESENTATIONS	** ROOMS **
Sunday, June 29			
9:30-11:00	**Hands-on workshops / 1st Slots**		
	Analysis of clinical and haemotological samples, in group of three (the computer connects directly to the Bionano US server in US), ***Dana JABER***		**ALO 05.100**
	Bridging cytogenetics workflows: Hands-on analysis of arrays to NGS, ***Kyle CUTLER, Marco RUSSMAN***		**ALO 05.200**
	The use of online resources to annotate/map clinical CNVs, ***Robert KUHN***		**ALO 07.100**
	Nanopore based sequencing for structural variant detection, from sample to report, ***"WET LAB"*** *,* ***Erwin REILING, Erika SOUCHE***		**Meet. Point: Registration**
11:15-12:45	**Hands-on workshops / 2nd Slots**		
	Analysis of clinical and haemotological samples, in group of three (the computer connects directly to the Bionano US server in US), ***Dana JABER***		**ALO 05.100**
	Bridging cytogenetics workflows: Hands-on analysis of arrays to NGS, ***Eithan ZAND, Marco RUSSMAN***		**ALO 05.200**
	The use of online resources to annotate/map clinical CNVs, ***Robert KUHN***		**ALO 07.100**
	Nanopore based sequencing for structural variant detection, from sample to report, ***"DRY LAB"*** *,* ***Erwin REILING, Erika SOUCHE***		**ALO 07.200**
14:30-17:30	***Permanent Working Group Meetings***		
14:30-16:30	**Animal, plant, and comparative cytogenetics** PWG Coordinators: **Pat HESLOP-HARRISON**		**ALO 05.100**
14:30-14:35	**Coordinators**	Welcome and foreword by PWG Coordinators	
14:35-14:45	Andreas HOUBEN	Does chromoanagenesis play a role in the origin of B chromosomes?	
14:45-14:55	Alla KRASIKOVA	Retrotransposable elements drive transcription of tandem repeats	
14:55-15:05	Alessandra IANNUZZI	Exploring Telomere Length as a Biomarker of Well-Being in Aglianico Grapevines	
15:05-15:15	Liliana BURIBASA	Bivalent marker dynamics in protamine expression: unraveling chromatin compaction mechanisms	
15:15-15:25	Ioana NICOLAE	Cytogenetic investigations in Romanian Black and White Spotted cattle	
15:25-15:35	Lyubov MALINOVSKAYA	Germline-restricted chromosome during embryogenesis in sand martin (riparia riparia)	
15:35-15:45	Ahmet L. TEK	A novel model for functional centromere composition in soybean and Glycine soja	
15:45-15:55	Alessia DAPONTE	Unraveling the genetic architecture of centromeres with CENdetectHOR	
15:55-16:10	Paulina TOMASZEWSKA	Repetitive DNA sequences mark genome boundaries in the terrestrial orchid epipactis zinn	
16:10	**Coordinators**	General discussion and conclusive remarks by PWG Coordinators	
14:30-16:30	**Neoplasia** PWG Coordinators: **Harald RIEDER, Paola CARIA**		**ALO 07.100**
14:30-14:35	**Coordinators**	Welcome and foreword by PWG Coordinators	
14:35-14:45	Tadeusz KALUZEWSKI	Evaluation of the Utility of TERT Promoter Mutations in the Early Detection of Urothelial Cancer	
14:45-14:55	Marija DENCIC FEKETE	Distribution of gene aberrations in chronic lymphocytic leukemia by NGS testing in a Serbian patient cohort	
14:55-15:05	Marie-Bérengère TROADEC	What is wrong with the deletion of chromosome region 5q in myelodysplastic syndrome? Identification of a novel actor of the sensitivity to lenalidomide of MDS with del(5q)	
15:05-15:15	Uliana LYKHOVA	Beyond t(12;21): unveiling the hidden layers in all karyotypes	
15:15-15:25	Laura YISSEL RENGIFO	Dynamic Follow Up Of Tumor Burden In Multiple Myeloma Through Analysis Of Ccfdna Markers	
15:25-15:35	Seon Y KIM	Detection of measurable residual disease using fluorescence in situ hybridization compared with multiparametric flow cytometry in patients with B-lymphoblastic leukemia	
15:35-15:45	Hila LEDERMAN NACHMIAS (pending)	New Insights Affecting Classification, Prognosis and Treatment of Multiple Myeloma Using Optical Genome Mapping	
15:45-15:55	Soumaya MAUGOU-ZERELLI (pending)	Mapping Cancer Risk in Constitutional Chromosomal Deletions: A Cytogenetic Analysis	
15:55-16:30	**Coordinators**	General discussion and conclusive remarks by PWG Coordinators	
15:30-17:30	**Clinical and molecular approaches to cytogenetic syndromes & cytogenomics** PWG Coordinators: **Joris VERMEESCH, Anna LINDSTRAND, Damien SANLAVILLE**		**Auditorium GA1**
15:30-15:35	**Coordinators**	Welcome and foreword by PWG Coordinators	
15:35-15:45	Paola EVANGELIDOU	A rare and complex case of a male patient with DiGeorge – like phenotype, carrying three different mosaic copy number variants on chromosome 22	
15:45-15:55	Caroline SCHLUTH-BOLARD	FGF14 disruption by constitutional chromoanagenesis as a cause of spinocerebellar ataxia	
15:55-16:05	Leslie KULIKOWSKI	Resolving the Unresolved: Epigenomic Profiling as a Diagnostic Tool for Copy Number Variants of Uncertain Significance	
16:05-16:15	Martine DOCO-FENZY	Invdupdel Or Duptrp Rearrangements Revisited Using Array-CGH And Optical Genome Mapping	
16:15-16:25	Lusine NAZARYAN-PETERSEN	Detection Of Structural Variants By Short Read Whole Genome Sequencing And Interpretation For Genetic Diagnosis	
16:25-16:35	Marlene EK	Long Read Genome Sequencing Enhances Diagnosis Of Pediatric Neurological Disorders	
16:35-16:45	Igor LEBEDEV	X Chromosome Cnv Reclassification Integrating X Inactivation Status For Improved Pathogenicity Assessment	
16:45-16:55	Esmee TEN BERK DE BOER	Investigating X Chromosome Inactivation Patterns In X Autosome Translocations Using Long Read Sequencing And The T2t Genome Assembly	
16:55-17:30	**Coordinators**	General discussion and conclusive remarks by PWG Coordinators	
16:30-17:30	**Chromosomes' integrity, stability, and dynamics** PWG Coordinators: **José M. GARCIA-SAGREDO, Emanuela VOLPI** ***Exploring new chromosomal paradigms for precision medicine and early disease detection***		**ALO 05.100**
16:30-16:40	**Coordinators**	Welcome and foreword by PWG Coordinators	
16:40-16:50	Ulrike MAU-HOLZMANN	Multiple Variable Chromosomal Aberrations in Primary Fibroblasts: Further Hints to Chromosomal Instability as a Long-Term Effect Even Years After Irradiation	
16:50-17:00	Claudia OLIVEIRA	The DEB Test Beyond Fanconi anaemia: A new look into chromosome instability	
17:00-17:10	Zuzanna GRACZIK	Impact of sperm fractioning on chromosome positioning, chromatin integrity and DNA methylation level	
17:10-17:20	Radhia M'KACHER	Telomere Dysfunction, DNA Breaks, Chromosomal Aberration Formation and the Dark Side of the Centromere	
17:20	**Coordinators**	Conclusive remarks and new initiative announcement by PWG Coordinators	

16:30-17:30	**Prenatal diagnosis** PWG Coordinators: **Rosário Carvalho PINTO LEITE, Jean-Michel DUPONT**		**ALO 07.100**
16:30 -16:35	**Rosário Carvalho PINTO LEITE**	Introduction	
16:35 -16:45	A.VARDANYAN	Retrospective analysis of cytogenetic findings in pregnant women at risk following first-trimester screening: insights from NIPT in Armenia	
16:45 - 16:55	M.A.CARO MIRO	Circuit of prenatal screening with free circulating fetal DNA in the balearic islands	
16:55 - 17:10	Rosário Carvalho PINTO LEITE	NIPT in Europe, Result of the PWG survey	
17:10 - 17:20	K.CASSINARI	First Prenatal Case of Jumping-like Translocations: Unraveling Complex Chromosomal Rearrangements	
17:20 - 17:30	N.CHATRON	Comparative Efficacy of cfDNA and aCGH in Detecting Chromosomal Aberrations Post-Miscarriage	
18:00-19:00	**Opening Lecture** **Evan E. EICHLER "Complete chromosomes and complex genomes"** Chaired by **Mariano ROCCHI, Joris VERMEESCH**		**GA0**
19:00-20:30	**ECA 2025 Kick-off party**		**Exhibition Area**

Monday, June 30

8:30-10:15	**Plenary session 1** **Structural variation in health and disease** Chaired by: **Joris VERMEESCH, Anna LINDSTRAND**		**GA0**
8:30-9:00	**Alexandre 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	
10:15-10:45	**COFFEE BREAK**		**Exhibition Area**
10:45-12:15	**Plenary session 2** **Complexity of cancer genomes** Chaired by **Roberta VANNI, Barbara DEWAELE**		**GA0**
10:45-11:15	**Jonas DEMEULEMEESTER**	Multiomic 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	**Şule ALTINER**	Cytogenetic profile of hematological malignancies with complex karyotype a single center study from Turkey	
12:15-14:30	**POSTER SESSION**		**Poster Area**
12:30-14:30	**Sponsored Workshop: Next-gen cytogenetics: Applications of AI and digital FISH in diagnostics** Speakers: **Jana BUKOLSKÀ, Yarin HADID, Lee KAPLAN**		**ALO 05.100**
14:30-15:30	**Concurrent Session 1** **Meiosis and Mitosis** Chaired by **Jean-Michel DUPONT, Elisabeth SYK LUNDBERG**		**GA0**
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	
14:30-15:30	**Concurrent Session 2** **Automation and AI in Clinical Genetics** Chaired by **Barbara DEWAEKE, Franck PELLESTOR**		**GA1**
14:30-15:00	**Claudia HAFERLACH**	Application of AI in hematological diagnostics	
15:00-15:30	**Robert KUHN**	Online resources at UCSC	
15:30-15:45	**COFFEE BREAK**		**Exhibition Area**
15:45-17:30	**Plenary Session 3** **Clinical Cytogenomics** Chaired by **Damien SANLAVILLE, Orsetta ZUFFARDI**		**GA0**
15:45-16:15	**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 CIOLFI**	DNA methylation profiling as a diagnostic tool	
17:15-17:30	**Dominik REZNY**	Precision approaches ın clinical cytogenomics the role of optical genome mapping and long read sequencing ın structural variant detection	
17:30-20:00	**POSTER SESSION**		**Poster Area**
18:00-19:00	***ECA General Assembly***		**GA0**

Tuesday, July 1			
8:30-10:30	**Plenary Session 4** **Animal, Plant and Comparative Cytogenomics** Chaired by **Pat HESLOP-HARRISON, Mariano ROCCHI**		**GA0**
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 ınstability ın cancer resistant wild vertebrates	
10:15-10:30	**Fengtang YANG**	Genomic complexity and evolutionary plasticity ın dugesia japonica revealed by multi ploidy chromosome level assemblies	
10:30-11:00	**COFFEE BREAK**		**Exhibition Area**
11:00-12:15	**Concurrent Session 3** **Nuclear organisation and disease** Chaired by **Emanuela VOLPI, Pat HESLOP-HARRISON**		**GA1**
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** Chaired by **Damien SANLAVILLE, Orsetta ZUFFARDI**		**GA0**
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-ınactivation pattern ın carriers of X chromosome aberrations and DMD gene mutations	
12:15-14:00	**POSTER SESSION**		**Poster Area**
12:30-13:15	**Sponsored Session:**		**GA1**
12:30-12:45	**Drew ELLERSHAW**	Introduction	
12:45-13:05	**Inga NAGEL**	Addressing clinical challenges in rare diseases through long-range insights by a novel genome sequencing technology	
13:05-13:15		Q&A	
14:00-15:45	**Concurrent Session 5** **Accreditation and workshop on ISCN** Chaired by **Franck PELLESTOR, Harald RIEDER**		**GA0**
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** Chaired by **José GARCIA SAGREDO, Joan BLANCO**		**GA1**
14:00-14:30	**Alba HERNADEZ BONILLA**	Genotoxicity and carcinogenicity of long-term micro- & nano-plastics 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	
15:45-16:15	**COFFEE BREAK**		**Exhibition Area**
16:15-17:30	**Plenary Session 5** **Prenatal Diagnosis and Preimplantation** Chaired by **Elisabeth SYK LUNDBERG, Rosario PINTO LEITE**		**GA0**
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"** Chaired by **Mariano ROCCHI, Jean-Michel DUPONT**		**GA0**
18:30	**Closing Ceremony**		**GA0**

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