Friday, 24 February 2023

07:30 - 17:00	**Registration open** (entrance to Hall 1, Ground Level)								
09:00 - 16:00	**Exhibition open** (Hall 1 & 2, Ground Level)								
07:30 - 08:45									
09:00 - 10:30	**Plenary 2 - Translational Genomics and Implementation Science** Chairs: David Amor and Kelly Ormond Venue: Ballroom, Level 1								
09:00 - 09:45	"Non-Invasive Prenatal Testing as an Archtype of Translational Genomics" - Dennis Lo, Hong Kong (pre-recorded)								
09:45 - 10:30	"Genomics and the Future of Medicine" - Mayana Zatz, Brazil (pre-recorded)								
10:30 - 11:00	**Tea / Coffee Break**								
11:00 - 12:30	**INVITED SESSIONS**	**Session 9 - Diversity for the Future of Precision Medicine & Health Population Screening** Chair: Vicky Nembaware, South Africa (Venue: Ballroom East, Level 1)	**Session 10 -Global Initiatives in Genomic Medicine Workforce Development: Ensuring Best Practice in Genomic Education** Chairs: Tina-Marie Wessels, South Africa & Sylvia Metcalfe, Australia (Venue: Ballroom West, Level 1)	**Session 11 -Therapeutic Approaches to Genetic Disorders - Before, During and After** Chair: Shahida Moosa, South Africa & Careni Spencer, South Africa (Venue: Meeting Block 1.4, Level 1)	**Session 12- Advances in Genetics and Gene Directed Therapies for Inherited Retinal Diseases** Chair: Alison Hardcastle, UK (Venue: Meeting Block 1.6, Level1)	**Session 13 - Methodology and Considerations for Analyses in Diverse Populations** Chair: Marika Kaakinen, UK & Krista Fischer, Estonia (Venue: Meeting Block 2.41 - 2.43, Level 2)	**Session 14 - AI-driven next-generation phenotyping: impact on the clinical diagnostic process** Chair Dr Koen Devriendt, Belgium & Shahida Moosa, South Africa (Venue: Meeting Block 2.64 - 2.66, Level 2)	**Session 15 - Multi-Omics** Chair: Ayse Demirkan, UK (Venue: Meeting Block 2.61 - 2.63, Level 2)	**Session 16 - Sustainable Development Goals (SDG 2030) For Genetic and Genomic Disorders** Chair: Meow-Keong Thong, Malaysia (Venue: Meeting Block 2.64 - 2.66, Level 2)
		Lack of Diversity Remains an Unsolved Problem for Precision Medicine but Hopefully Not for Long: Janina Jeff, USA	Ensuring Best Practice in Genomics Education and Evaluation: The Australian Genomics Workforce and Education Research Program: Amy Nisselle, Australia	Novel Therapies: Achondroplasia as a Model: Melita Irving, UK	Advances in Defining the Inherited Retinal Disease Genome: Alison Hardcastle, UK	The Power of Diverse Populations for Discovery and Translation of Genome-Wide Association Studies: Andrew Morris, UK	Face2Gene: a toolbox for AI-based dysmorphism evaluation: Nicole Fleischer, USA	Pharmacogenetics in African -American Populations: Minoli Perera, USA	Achieving Sustainable Development Goals for Congenital Disorders: Challenges and Opportunities: Meow Keong Thong, Malaysia
		Novel and Known Genes associated with Cardiovascular Disease Risks in African Populations: Palwendé Boua, Burkina Faso	Supporting The Implementation of a National Genomics Medicine Service In England: Michelle Bishop, UK	Genetic Biobanks, Registries, Patient Organisations: Towards Therapies for FOP: Luca Sangiorgi, Italy (virtual)	Modelling Inherited Retinal Diseases with Stem Cells: Michael Cheetham, UK	Diversity in Genetic Studies aids Locus Discovery, Fine-Mapping, Gene Prioritisation, and Causal Inference: Karoline Kuchenbaecker, Genomics England	GestaltMatcher and DeepGestalt : powerful engines for clinical and molecular diagnostic : Peter M Krawitz, Germany	Single Cell Transcriptomics: Peter Kharchenko, USA	Newborn Screening: Way Forward for SDGS From Global Perspective: Carmencita Padilla, Philippines
		Importance of Building up Local Infrastructure to Provide Whole-Genome Sequencing for Rapid Response, for Critically Ill Patients: Ahmad Abou Tayoun, United Arab Emirates	The African Genomic Medicine Training (AGMT) Initiative: Nicola Mulder, South Africa	New Therapeutic Interventions in Neuromuscular Diseases: Matthew Wood, UK	Genetic Therapies for Inherited Retinal Diseases: From Fiction to Fact: Bart Leroy, Belgium	Incorporating Local Ancestry in the Construction of Polygenic Risk Scores: Yun Li, USA (pre-recorded)	Objective evaluation of dysmorphism by automated analysis of facial photographs in African individuals: Aimé Lumaka, DR Congo	Gut microbiome: Alexandra Zhernakova, Netherlands	Next Generation Sequencing Technology: Levelling the Playing Field For SDGS in Genomic Medicine: Lai Poh San, Singapore
			Educating the Genomics Community on Updated ACMG/Clingen Technical Standards for Interpretation and Reporting of Constitutional Copy Number Variants: Erin Rooney Riggs, USA						
			Panel discussion with all presenters: Lessons Learned from International Workforce Development Initiatives: Looking Back to Move Forward						
12:30 - 14:00	**Lunch Break**								
13:00 - 14:00	**LUNCHTIME SYMPOSIA / WORKSHOPS**	**Lunchtime Symposium 5**	**Lunchtime Symposium 6**	**Lunchtime Symposium 7**	**Lunchtime Symposium 8**	**Workshop / Focus Group 9**	**Workshop / Focus Group 10**	**Workshop / Focus Group 11**	**Workshop / Focus Group 12**
14:00 - 15:00	**POSTER SESSION** (Venue: Exhibition Hall - Hall 1 & 2, Ground Level)								
15:00 - 15:30	**Tea / Coffee Break**								
	Session Chairs								
15:30 - 16:00	**Invited Keynote Speakers**	Keynote 9 - From CMA to a Complete Genome Scan: the ever-evolving lessons from Prenatal Diagnosis: Richard Choy, China	Keynote 10 - How digital tools are changing equity & quality of genomic medicine: Evidence, preferences & policy: Yvonne Bombard, Canada	Keynote 11 - Consanguinity and genetic diseases in North Africa: are we ready for precision medicine? Cherine Charfeddine, Tunisia	Keynote 12 - Genomics Equity for Health in Latin America: Claudia Gonzaga-Jauregui, Mexico	Keynote 13 - Using Zebrafish Larvae to Characterize Candidate Genes for Cardiometabolic Health: Marcel den Hoed, Sweden	Keynote 14 -Using Epigenomics to Understand Human Disease: John Greally, USA	Keynote 15 - Establishing an African-relevant roadmap for prostate cancer precision medicine: lessons from whole genome profiling within the Southern African Prostate Cancer Study (SAPCS): Vanessa Hayes, Australia	Keynote 16 - Rare variants and common traits: Alex Reymond, Switzerland
	Oral Presentations								
16:00 - 16:15		1. Diagnosing rare genetic disorders in LMICs using WES and automated deep phenotyping and its implications on public health: Alexej Knaus, Germany	1. Large-scale single-cell RNA sequencing of healthy and inflamed terminal ileal samples yields insights into Crohn's disease biology: Monika Krzak, UK	1. WHO and Partners present a revision of the burden of birth defects: Kathleen Strong, Switzerland	1. Maximizing Participation in Genomics Research; Feedback from the Community: Daniel Sekwo, Ghana	1. Characterizing 99 cardiometabolic candidate genes for a role in NAFLD using CRISPR/Cas9, in vivo imaging and deep learning in zebrafish larvae: Endrina Mujica, Sweden	1. Epigenetic age acceleration in the emerging burden of cardiometabolic diseases among migrant and non-migrant African populations: the population based cross-sectional RODAM study: Felix Chilunga, Netherlands	1. Heterogeneous genetic architectures of prostate cancer in African populations: Joseph Lachance, USA	1. A multi-omics classifier for prediction of Androgen treatment response In prostate cancer patients: Itunuoluwa Isewon, Nigeria
16:15 - 16:30		2. Diagnostic yield of massive parallel sequencing in postmortem genetic analyses of sudden unexplained deaths in the young Kazakhstani individuals: Ainur Akilzhanova, Kazakhstan	2. PheWAS-based clustering of Mendelian Randomization instruments reveals distinct mechanism-specific causal effects between obesity and educational attainment: Liza Darrous, Switzerland	2. Breast cancer patients from Inkosi Albert Luthuli Central Hospital in South Africa: comparison of clinical and molecular characteristics between triple-negative and luminal-like disease: Herculaas MvE Combrink, South Africa	2. A staged approach to developing the genomics workforce while implementing genomic medicine: Amy Nisselle, Australia	2. Large-scale analysis of retinal vascular parameters from UK BioBank colour fundus images reveals their phenotypic and genotypic correlations, as well as genes and pathways associated with vascular pathomechanics and diseases: Sven Bergmann, Switzerland	2. Genomewide longitudinal DNA methylation profiling of pregnant women and its association with preterm birth outcome – a GARBH-Inl study: Jagyashila Das, India	2. Rare, risk-associated variants in DNA damage repair genes identified through germline sequencing in two hereditary prostate cancer cohorts: Georgea Foley, Australia	2. Application of Machine Learning to predict prostate cancer aggressiveness – using clinical and genomic datasets: Shakuntala Baichoo, Mauritius
16:30 - 16:45		3. Rapid and comprehensive diagnostic method for repeat expansion diseases using nanopore sequencing: Naomichi Matsumoto, Japan	3. Assessment of 3D genomic features across multiple cell types reveals novel insights into the pathogenesis of childhood obesity: Khanh B. Trang, USA	3. Genome-wide association study identifies common variants associated with breast cancer in South African black women: Mahtaab Hayat, South Africa	3. The Common Infrastructure for National Cohorts in Europe, Canada, and Africa (CINECA) Project: Thomas Keane, UK	3. The Genetic Architecture of the Corpus Callosum and its Subregions: Megan Loraine Campbell, South Africa	3. Epigenome-wide association study reveals CpG sites associated with thyroid function and regulatory effects on KLF9: Alexander Teumer, Germany	3. The role of genetics in colorectal carcinogenesis; Does race matter?: Hassan Ashktorab, USA	3. Network Analysis Identifies Mechanisms of HPV-HIV Synergy in Driving Cervical Cancer Progression: Charles Olwal, Ghana
16:45 - 17:00		4. Combination of glass-needle-based chromosome microdissection and bisulfite sequencing to assess allele-specific DNA methylation data in unbalanced X-autosome translocations: Bianca Favilla, Brazil	4. Development of a pathology-supported genetic testing service at the intersection of research and oncology practice: Translating population risk into personal utility using point-of-care genomics and next generation sequencing: Maritha Kotze, South Africa	4. Impact of DNA repair genes on reproduction and cancer predisposition: Svetlana Yatsenko, USA	4. The GIRDA project: promoting precision ophthalmology in Africa: Lisa Roberts, South Africa	4. The Genetic Architecture of Amygdala Nuclei: Mary Mufford, South Africa	4. cis-eQTL mapping of TB-T2D comorbidity elucidates the involvement of African ancestry in TB susceptibility: Yolandi Swart, South Africa	4. Spectrum of germline mutations among Mexican patients with colorectal cancer: Dione Aguilar y Mendez, Mexico	4. Identifying genes involved in hip osteoarthritis and describing the cells in which they are differentially expressed: Kaitlyn Flynn, Australia
17:00 - 17:15		5. Stepwise ABC system for classification of any type of genetic variant: Experience so far and suggested updates: Gunnar Douzgos Houge, Norway	5. The influence of autozygosity on disease across the phenotypic spectrum: Hilary Martin, UK	5. Confined placental mosaicism and clinical impact, a retrospective cohort analysis: Diane Van Opstal, Netherlands	5. Development and evaluation of a decision aid for BRCA1/2 genetic testing in high-risk Malaysian families with varying degrees of health literacy: A mixed-methods study: Bettina Meiser, Australia	5. Understanding genetic contributions to the brain building blocks of musical rhythm traits: Reyna Gordon, USA	5. 3D genome architecture in frontal cortex suggests novel mechanisms for ancestry-specific genetic risk for Alzheimer's Disease: Liyong Wang, USA	5. ancMETA: Bayesian Framework for Gene/Subnetwork-Specific Meta-Analysis: Joel Defo, South Africa	5. Neurobiological Pathways Underlying Opioid Addiction Identified by Systems Biology Multi-omic Gene Integration: Daniel Jacobson, USA
17:15 - 17:30		6. Clinical Genomics in Southern Africa: Lessons from the Undiagnosed Disease Programme: Shahida Moosa, South Africa	6. Novel genetic associations underlying symptom severity and infection susceptibility to SARS-CoV-2: Mattia Cordioli, Finland	6. Novel gene discovery for Parkinson's disease in a South African family: Katelyn Cuttler, South Africa	6. The Baylor College of Medicine Genomic Research to Elucidate the Genetics of Rare (BCM-GREGoR) Disease Program: Annotating Gene Function to Provide Insights into Human Biology and Disease Across Worldwide Populations: Jennifer Posey, USA	6. Replication of Suggestive GWAS Signals Identified Novel Loci for Non-syndromic Orofacial Clefts in the African Population: Azeez Alade, USA	6. Exploring temporal gene expression dynamics during postnatal human brain maturation: a single nucleus RNA sequencing study of the paediatric and adult human brain: Christina Steyn, South Africa	6. Genetic ancestry correlates of the somatic mutational landscape from tumor profiling data of 100,000 cancer patients: Francisco De La Vega, USA	6. Copy number variant identification from exome sequencing data – a possible approach for African developmental disorder datasets?: Nadja Louw, South Africa
18:00 - 19:30	**Meet the Professor / Meet the Expert / Workshops / Focus Groups / Dinner Symposia** Non Profit Organisations, Academic Institutions and Individuals applications (closing date: 30 November 2022): https://www.ichg2023.com/workshops-satellite-meetings-2/) Sponsor and Exhibitor Applications (apply for a workshop / symposium sponsorship: https://www.ichg2023.com/sponsorship/)								