



FROM COHORTS TO CLINICS:
THE NEW LANDSCAPE OF GLOBAL HEALTHCARE
PRECISE-IHCC CONFERENCE
21 – 23 AUGUST 2024

PROGRAMME



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About PRECISE-IHCC Conference 2024

Jointly organised by **Precision Health Research, Singapore (PRECISE)** and the **International Health Cohorts Consortium (IHCC)**, the conference will bring together some 600 thought leaders, clinicians, scientists, biotechs, and patient advocacy associations from across the world who are at the forefront of precision medicine and public health innovation.

Themed “**From Cohorts to Clinics: The New Landscape of Global Healthcare**”, the conference seeks to address the challenges and opportunities in translating advances in precision medicine into tangible enhancements in patient care and reshape the landscape of modern healthcare. It also aims to catalyse and promote cross-population cohort research and design cross-cohort pilot projects to address various global challenges.

The three-day conference will be held on site from 21 to 23 August 2024 in Singapore.



Conference Aims

Aim #1 Encourage Scientific Exchange:

Thought leaders, policymakers, researchers, and industry stakeholders in the field of precision medicine will have a platform to share their insights, discoveries and findings, facilitating cross-pollination of ideas and methodologies.

Aim #2 Translate Precision Science to Impact Patients:

Provide a unique opportunity to bring together the scientific community, clinicians, patients and other stakeholders to integrate scientific advances into patient care, reshaping the landscape of modern healthcare.

Aim #3 Showcase Global Advancements in Genomic and Precision Medicine:

Showcase cutting-edge, cost-effective, and clinically effective healthcare solutions and demonstrate a collective dedication to making these advancements accessible, equitable, and beneficial across different populations worldwide.

Aim #4 Bring Diverse Perspectives on Global Challenges:

Bring together esteemed speakers from global precision medicine programmes across the globe, to provide diverse insights into the latest developments in this rapidly evolving field.

Aim #5 Champion Early-Career Scientists in Genomic and Precision Medicine:

Provide emerging researchers with opportunities to showcase their work, gain invaluable insights from the frontiers of genomic research and precision medicine, and engage with leading professionals.

Aim #6 Enhance Cohort Studies and Biobank Integration for Translational Impact:

Spotlight the critical role of extensive cohorts and biobanks in advancing genomic and precision medicine to ensure that innovations reach the bedside with ethical integrity and global inclusivity.



Conference Organisers



Precision Health Research, Singapore (PRECISE) is the central entity set up to coordinate a whole of government effort to implement Phase II of Singapore's three-phase **National Precision Medicine (NPM) programme**.

It aims to transform healthcare in Singapore and improve patient outcomes through new insights into the Asian genome and data-driven healthcare solutions. NPM Phase II will also enhance the breadth and depth of the Precision Medicine-related industry by attracting and anchoring overseas companies in Singapore, while yielding new opportunities for home-grown companies.

PRECISE is a programme under the Consortium for Clinical Research and Innovation, Singapore (CRIS).

For more information, visit www.npm.sg



The **International Health Cohorts Consortium (IHCC)** aims to create a global platform for translational research – cohort to bedside and cohort to bench – informing the biological and genetic basis for disease and improving clinical care and population health.

It brings large cohorts together to encourage data sharing, improve efficiencies and maximise benefits in addressing scientific questions none could answer alone. To address the value and challenges of combining large cohort data across borders, the IHCC has formed two working groups:

1. Scientific Strategy and Cohorts Enhancement; and
2. Data Standards and Infrastructure.

For more information, please visit <https://ihccglobal.org>

IHCC is a programme of the Global Genomic Medicine Collaborative (GGMC)
<https://globalgenomics.org>.

Organising Committee



Dr Seow Shih Wee

*Precision Health Research,
Singapore (PRECISE)*



Dr Scott Sundseth

*International Health Cohorts
Consortium (IHCC)*



Mr Tan Jia En

*Precision Health Research,
Singapore (PRECISE)*



Ms Chisom Nwaneri

*International Health Cohorts
Consortium (IHCC)*



Ms Jasmine Tan

*Precision Health Research,
Singapore (PRECISE)*



Ms Meredith Towery

*Global Genomic Medicine
Collaborative (GGMC)*



Ms Lee Yee Shuan

*Consortium for Clinical Research
and Innovation, Singapore
(CRIS) and Precision Health
Research, Singapore (PRECISE)*



Mr Chris Nelson

*Global Genomic Medicine
Collaborative (GGMC)*



Scientific Committee



Prof Nahla Afifi

International Health Cohorts Consortium (IHCC)



Dr Arash Etemadi

National Cancer Institute, NIH, U.S.A.



Prof Segun Fatumo

Queen Mary University of London



Adj Asst Prof Max Lam

Precision Health Research, Singapore (PRECISE)



Clinical A/Prof Tan Ee Shien

Precision Health Research, Singapore (PRECISE)



Dr Ricardo A. Verdugo

Department of Basic-Applied Oncology, University of Chile, Chile and Faculty of Medicine, University of Talca, Chile

The committee members are arranged in alphabetical order based on their last names.



Welcome Message



Prof Patrick Tan

Executive Director
*Precision Health
Research, Singapore*

Welcome to the PRECISE-IHCC Conference 2024!

We are delighted to have you join us for this remarkable event, where science and medicine converge to shape the future of healthcare.

This conference will provide a platform for knowledge exchange, fostering connections, and advancing our collective mission to make a tangible positive impact on patient outcomes worldwide.

Thank you for being part of this journey towards a more precise and effective approach to medicine. We look forward to your contributions and hope you find the sessions both inspiring and insightful.



Mr Grant M. Wood

President & CEO
*Global Genomic
Medicine Collaborative
(GGMC)*

It is with great pleasure that I welcome you to the PRECISE-IHCC Conference held in the innovative global hub of Singapore. This gathering represents a unique opportunity to explore the cohort connections that revolutionize targeted population health science by establishing a collaborative data infrastructure. Together, we will delve into innovative solutions that are clinically impactful, making precision medicine a reality worldwide.

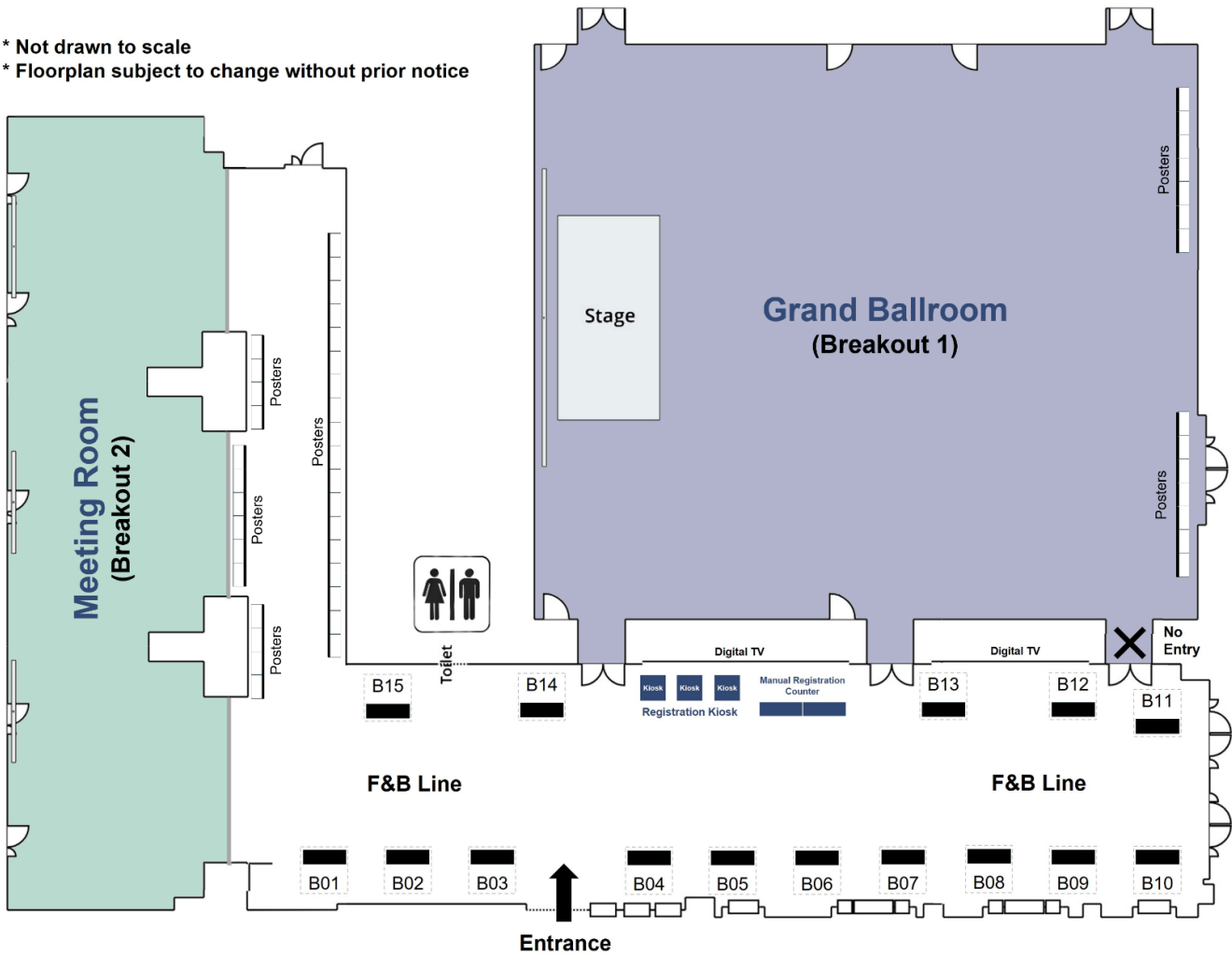
I invite you to engage, learn, and move forward together as we work towards a future where personalized healthcare enhances all lives. Thank you for being a part of this wonderful journey.

Conference Floorplan

Conference Venue: One Farrer Hotel

1 Farrer Park Station Road, Level 6, Singapore 217562

Grand Ballroom | Meeting Room | Wisteria & Camellia Villas



Sponsor Booths

B01	Agilent Technologies	B02	Nightingale Health	B03	Oxford Nanopore Technologies
B04	Illumina	B05	BC Platforms	B06	MGI Tech
B07	Olink	B08	Novartis	B09	Sanofi
B10	JLABS	B11	Macrogen Asia Pacific	B12	NovogeneAIT Genomics
B13	PacBio	B14	SomaLogic	B15	Inqaba Biotec

Conference Programme



Programme: 21 August 2024 (Wednesday)

9.00 am - 9.15 am	Grand Ballroom
	Welcome Address Prof Patrick Tan Precision Health Research, Singapore
	Opening Address by Guest of Honour Dr Janil Puthucheary Senior Minister of State, Ministry of Digital Development and Information, and Ministry of Health
9.15 am - 9.45 am	Plenary 1 NHS Genomic Medicine Service – From Cohorts to Clinics Prof Dame Sue Hill NHS England
9.45 am - 10.15 am	Teabreak Networking Session Foyer

Session 1

10.15 am - 11.40 am	Grand Ballroom
	Ethics and Policy
▷ 10.15 am - 10.35 am	Polygenic Risk Scores and Reproduction: Ethical, Legal and Social Issues Prof Julian Savulescu National University of Singapore
▷ 10.35 am - 10.55 am	Who is ELSA? Why does ELSI matter?! Dr Michaela Mayrhofer BBMRI-ERIC
▷ 10.55 am - 11.15 am	Diversity, representation and bias in precision medicine Dr Angela Ballantyne University of Otago
▷ 11.15 am - 11.40 am	Group Q&A Moderator: Prof Nicki Tiffin South African National Bioinformatics Institute, University of the Western Cape

11.40 am - 12.00 pm	Poster Session Grand Ballroom Foyer		
12.00 pm - 1.30 pm	Parallel Track 1: Lunch Time Industry Talk Grand Ballroom	Parallel Track 2: Lunch Time Industry Talk Meeting Room	Parallel Track 3: Lightning Talk (Early Career Scientist) Wisteria & Camellia Villa
> 12.20 pm - 12.55 pm	Presentation by PacBio: Personalized Medicine with PacBio Long Reads: Experience from the Estonian Biobank Prof Lili Milani Estonia Biobank, Estonian Genome Center, University of Tartu	Presentation by BC Platforms: Maximising the use of existing RWD for the benefit of your diverse patient population; A Clinical use case demonstrating the value of true federation network Mr Nino da Silva BC Platforms	Presenter 1: From cohorts to the clinic: interactively visualising amyotrophic lateral sclerosis (ALS) future risk projections Dr Jane Ong Siying Singapore Institute of Clinical Sciences, Agency for Science, Technology and Research
			Presenter 2: Predicting early-life BMI Trajectories through Proteomics Data by learning Parametric Koopman Decomposition Dr Chen Yurui Department of Mathematics, National University of Singapore, and Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research
			Presenter 3: Metabolome-wide association of carotid intima media thickness in an Asian population cohort identifies FDX1 as a determinant of cholesterol metabolism and cardiovascular risk. Dr Nilanjana Sadhu Lee Kong Chian School of Medicine, Nanyang Technological University

▷ 12.55 pm - 1.20 pm	Presentation by MGI: Empowering Clinical Insights with Advanced DNBSEQ Solutions for Population Genomics Dr Radoje (Rade) Drmanac MGI Tech	Presentation by SomaLogic: Scaling proteomics for translational medicine: Can it be done while preserving performance? Dr Stephen A. Williams SomaLogic	Presenter 4: Integrative analysis of omics summary data reveals putative mechanisms underlying dilated cardiomyopathy Konstanze Tan Lee Kong Chian School of Medicine, Nanyang Technological University Presenter 5: Vasculature damage and dysmetabolism in heart failure with preserved ejection fraction. Wu Lik Hang National University of Singapore
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Session 2

1.30 pm - 2.00 pm	Grand Ballroom Plenary 2: Singapore National Precision Medicine Programme - Value Creation for Health and the Economy Prof Patrick Tan Precision Health Research, Singapore
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2.00 pm - 3.20 pm	Parallel Track 1: Data Driven Discovery Grand Ballroom	Parallel Track 2: Complex Traits / Variant Resolution Meeting Room
▷ 2.00 pm - 2.20 pm	Our Future Health: A world leading resource for population health, genomics and prevention research Dr Raghib Ali Our Future Health	Single-cell RNA-seq dataset integration without loss of unique rare cell populations Prof Wong Limsoon National University of Singapore
▷ 2.20 pm - 2.40 pm	Decoding Cellular Intelligence To Accelerate Drug Discovery Dr Rob Yang CartaBio Inc	Realising the Dream of Precision Medicine in Schizophrenia Dr Jimmy Lee Institute of Mental Health
▷ 2.40 pm - 3.00 pm	Advancing Genomic Medicine through Global Data Sharing and Collaboration Dr Heidi Rehm Massachusetts General Hospital and Broad Institute	Beyond Single-Trait Analysis: Assessing Type 2 Diabetes Genetic Risk in a Middle Eastern Population Dr Ammira Al-Shabeeb Akil Sidra Medicine
▷ 3.00 pm - 3.20 pm	Group Q&A Moderator: Dr Thomas Keane EMBL- European Bioinformatics Institute	Group Q&A Moderator: Dr Lim Weng Khong Duke-NUS Medical School
3.20 pm - 4.00 pm	Teabreak Networking Session Foyer	

Session 3

4.00 pm - 5.20 pm	Parallel Track 1: Cancer Genetics Grand Ballroom	Parallel Track 2: Genomic Screening Meeting Room
▷ 4.00 pm - 4.20 pm	Cancer Predisposition in Singapore: Insights from SG10K and beyond Prof Joanne Ngeow National Cancer Centre Singapore	To be advised Dr Chien Yin Hsiu National Taiwan University Hospital

▷ 4.20 pm – 4.40 pm	Integrating Cohorts and Multi-Omics to Capture the Earliest Determinants of Cancer and Aging Dr Philip Awadalla Ontario Institute for Cancer Research	What do we know about expanded reproductive carrier screening? Prof Martin Delatycki Murdoch Children's Research Institute
▷ 4.40 pm – 5.00 pm	Genetic Risk Assessment in Cancer: Towards Personalized Risk Management in Asian Populations Dr Ho Weang Kee University of Nottingham Malaysia/Cancer Research Malaysia	Ethical issues in genomic screening Prof Thong Meow-Keong Universiti Tunku Abdul Rahman
▷ 5.00 pm – 5.20 pm	Group Q&A Moderator: Dr Arash Etemadi National Cancer Institute, NIH	Group Q&A Moderator: Clinical A/Prof Tan Ee Shien Precision Health Research, Singapore

5.20 pm

End of Programme Day 1



Programme: 22 August 2024 (Thursday)

Session 4

9.00 am - 9.30 am	Grand Ballroom Plenary 3 Implementing genomic medicine into clinical practice – a national and international perspective Prof Kathryn North Murdoch Children's Research Institute
9.30 am - 10.55 am	Biobanks for Precision Medicine
▷ 9.30 am - 9.50 am	FinnGen, an example of a Northern European large scale biobank study Prof Aarno Palotie Institute for Molecular Medicine Finland (FIMM), HiLIFE, University of Helsinki, Finland and Broad institute and Massachusetts General Hospital, Boston, USA
▷ 9.50 am - 10.10 am	The All of Us Research Program Dr Geoffrey Ginsburg All of Us Research Program, National Institutes of Health
▷ 10.10 am - 10.30 am	Challenge for Personalized Healthcare: the Tohoku Medical Megabank Project Prof Masayuki Yamamoto Tohoku University Tohoku Medical Megabank Organization (ToMMo)
▷ 10.30 am - 10.55 am	Group Q&A Moderator: Prof Nahla Afifi International Health Cohorts Consortium (IHCC)
10.55 am - 11.15 am	Teabreak Networking Session Foyer



Session 5

11.15am - 12.40pm	Grand Ballroom Pharmacogenomics		
▷ 11.15am – 11.35am	Rethinking Pharmacogenomics - Implementing Pre-emptive Pharmacogenomics in a Singapore Healthcare System Dr Elaine Lo Ah Gi National University Hospital		
▷ 11.35am – 11.55am	Pharmacogenomics implementation: towards precision medicine Prof Collet Dandara University of Cape Town		
▷ 11.55 am – 12.15pm	Clinical pharmacogenomics implementation in Thailand: a dream come true Prof Chonlaphat Sukasem Ramathibodi Hospital, Mahidol University		
▷ 12.15pm – 12.40pm	Group Q&A Moderator: Mr Grant M. Wood Global Genomic Medicine Collaborative (GGMC)		
2.00 pm – 2.00 pm	Parallel Track 1: Lunch Time Industry Talk Grand Ballroom	Parallel Track 2: Lunch Time Industry Talk Meeting Room	Parallel Track 3: Oral Presentations (Early Career Investigators) Wisteria & Camellia Villa
▷ 1.00 pm – 1.25 pm	Presentation by Illumina: Deep learning for precision medicine and drug target discovery Dr Kyle Farh Illumina	Presentation by Olink: Towards precision prevention: plasma proteomics for screening and risk prediction. Dr Julia Carrasco-Zanini Sanchez Queen Mary University of London	Oral Presenter 1: A proposed framework prioritizing pharmacogenomic drug-gene interactions in an Asian context for chemotherapy Dr Janice Goh Bioinformatics Institute, Agency for Science, Technology and Research Oral Presenter 2: Empiric treatment with aspirin and ticagrelor is the most cost-effective strategy in patients with minor stroke or transient ischemic attack Dr Kaavya Narasimhalu National Neuroscience Institute

▷ 1.25 pm – 1.50 pm		Presentation by Oxford Nanopore Technologies: The Era of Complete Genomes Ms Cora Vacher Oxford Nanopore Technologies	Oral Presenter 3: Statin Lactone Metabolism is a Determinant of 5-year Cardiovascular Outcomes Independent of Serum Cholesterol Eugene Goh National University of Singapore
			Oral Presenter 4: Cost-effectiveness of Pre-emptive Pharmacogenetic Panel Testing versus No Testing in a Multi-ethnic Asian Population Jamaica Roanne Briones National University of Singapore
			Oral Presenter 5: Unlocking Medical Insights through the Power of Taiwan Biobank Whole Genome Data Dr Jacob Hsu Shujui National Taiwan University

Session 6

2.00 pm - 3.20 pm	Parallel Track 1: Biobanks for Precision Medicine Grand Ballroom	Parallel Track 2: Rare Diseases Meeting Room	Parallel Track 3: Fireside Chat Wisteria & Camellia Villa
▷ 2.00 pm - 2.20 pm	To be advised Prof John Chambers Precision Health Research, Singapore	Singapore Undiagnosed Research Endeavour Dr Saumya Jamuar KK Women's and Children's Hospital	Dr Mark McCarthy Genentech Prof Martin Delatycki Murdoch Children's Research Institute Prof Nicki Tiffin South African National Bioinformatics Institute, University of the Western Cape
▷ 2.20 pm - 2.40 pm	Harnessing the power of proteomics in biobanks to advance precision health Prof Chen Zhengming University of Oxford	Genomics of Rare Diseases for Health Equity in Mexico and Latin America Dr Claudia Gonzaga-Jauregui International Laboratory for Human Genome Research, UNAM	Moderator Prof Sarah Bauermeister University of Oxford

▷ 2.40 pm - 3.00 pm	Genetic analysis of quantitative traits in the Taiwan Biobank Dr Lin Yen-Feng National Health Research Institutes, Taiwan	Implementing a Rare Diseases Program in Chile. What have we learned? Dr Gabriela Repetto Universidad del Desarrollo
▷ 3.00 pm - 3.20 pm	Group Q&A Moderator: Dr Geoffrey Ginsburg All of Us Research Program, National Institutes of Health	Group Q&A Moderator: Prof Duangrurdee Wattanasirichaigoon Faculty of Medicine Ramathibodi Hospital, Mahidol University

3.20 pm - 4.00 pm

Teabreak Networking Session

Foyer

Session 7

4.00 pm - 5.20 pm	Parallel Track 1: Genomic / Precision Medicine for Therapeutic R&D Grand Ballroom	Parallel Track 2: Training / Early Career Scientists Meeting Room	Parallel Track 3: Industry Talk Wisteria & Camellia Villa
▷ 4.00 pm - 4.20 pm	The Together for CHANGE™ Initiative: A Public-Private Partnership Expanding Genomics Research Dr Lyndon Mitnaul Regeneron Genetics Center	Nurturing the physician-scientists needed to make precision medicine a reality Dr Sharon Plon Baylor College of Medicine	Panel Discussion by NalaGenetics: Panelists: Dr Goh Liuh Ling Dr Elaine Lo Representative from BB Binomika Ministry of Health Indonesia Moderator: Dr Mar Gonzalez-porta NalaGenetics Pte Ltd
▷ 4.20 pm - 4.40 pm	Transforming Drug Discovery with large-scale genomics Dr Guillermo Del Angel AstraZeneca	Nanocourse: Providing Genomics Researchers with Clinical Perspective Prof Richard Haspel Beth Israel Deaconess Medical Center and Harvard Medical School	

▷ 4.40 pm - 5.00 pm	Embedding multimodal discovery in pharma R&D Dr Mark McCarthy Genentech	Inclusion, Equity, and Capacity Building for Early Career Genomics Research Fellows Dr Victoria Nembaware University of Cape Town
▷ 5.00 pm - 5.20 pm	Group Q&A Moderator: Dr Scott Sundseth International Health Cohorts Consortium (IHCC)	Group Q&A Moderator: Prof Michele Ramsay University of the Witwatersrand

5.20 pm

End of Programme Day 2



Programme: 23 August 2024 (Friday)

Session 8

9.00 am - 9.30 am	Grand Ballroom Plenary 4 Implementing Genomic Medicine Towards Universal Health Coverage for All People Prof Vajira Dissanayake University of Colombo, Sri Lanka
9.30 am - 10.55 am	Grand Ballroom Genomic Diversity
▷ 9.30 am - 9.50 am	Discovering the biology of major psychiatric illness in India Dr Biju Viswanath National Institute of Mental Health and Neurosciences
▷ 9.50 am - 10.10 am	ENIGMA’s Global Neuroimaging & Genomics Studies of 30 Brain Diseases: Lessons from India, China, Japan, & Pakistan Dr Paul Thompson Keck School of Medicine, University of Southern California
▷ 10.10 am - 10.30 am	The Mexican Biobank Project and Population Medical Genomics in Latin America Dr Andres Moreno-Estrada Advanced Genomics Unit, Cinvestav-Mexico
▷ 10.30 am - 10.55 am	Group Q&A Moderator: Dr Gabriela Repetto Universidad del Desarrollo
10.55 am - 11.15 am	Teabreak Networking Session Foyer



Session 9

11.15 am - 12.40 pm	Grand Ballroom	Research in LMICs
▷ 11.15 am - 11.35 am	Challenges and Opportunities for Genomics Research in Limited Resource Settings Dr Eva Maria Cutiongco-de la Paz Institute of Human Genetics, National Institutes of Health, University of the Philippines and Philippine Genome Center	
▷ 11.35 am - 11.55 am	Navigating Genetic Nephrology in LMICs	
	Dr Janewit Wongboonsin Division of Nephrology, Faculty of Medicine, Siriraj Hospital, Mahidol Univeristy, Thailand Renal division, Brigham and Women's Hospital, Boston, USA	
▷ 11.55 am - 12.15 pm	Strategic Cohort Design for the Global South: Maximising Insights Whilst Minimising Costs	
	Prof Nicki Tiffin South African National Bioinformatics Institute, University of the Western Cape	
▷ 12.15 pm - 12.40 pm	Group Q&A Moderators:	
	Ms Chen Mengji World Health Organization	
	Prof Gunadi Universitas Gadjah Mada	
12.00 pm – 2.00 pm	Parallel Track 2: Lunch Time Industry Talk	Parallel Track 3: Oral Presentations (Early Career Investigators)
	Meeting Room	Wisteria & Camellia Villa
▷ 1.00 pm - 1.25 pm	Presentation by Novartis: Newborn Screening for Rare Diseases - Current Landscape and Challenges in Singapore Dr Ting Teck Wah KK Women's and Children's Hospital	
	Oral Presenter 1: Genomic Insights into COVID-19 Susceptibility and Severity Among Singaporeans: A Multi-National Platform Initiative Penny Chan Bioinformatics Institute, Agency for Science, Technology and Research	

		Oral Presenter 2: Dietary risk factors for visceral adiposity in multiethnic Asian population: An epidemiological and metabolomics study Dr Theresia Mina Nanyang Technological University
▷ 1.25 pm - 1.50 pm	Presentation by Nightingale Health: Genetic and metabolomic determinants of disease at population scale Dr Jeffrey Barrett Nightingale Health	Oral Presenter 3: Understanding Women's Preferences for Undergoing Breast Cancer Risk Assessment: Insights from a Discrete Choice Experiment Dr Wang Yi Saw Swee Hock School of Public Health, National University of Singapore
		Oral Presenter 4: Genetic model predicts lifelong cardiometabolic risks in women. Dr Pan Hong Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research

Session 10

2.00 pm - 3.20 pm	Parallel Track 1: From Cohorts to Data Validation Grand Ballroom	Parallel Track 2: Genetic Counselling & Community Engagement Meeting Room	Parallel Track 3: Industry Talk Wisteria & Camellia Villa
▷ 2.00 pm - 2.20 pm	Cohort data management and interpretation in an African setting Prof Nicola Mulder University of Cape Town	Genomics screening initiatives tailored for the Singaporean community Ms Yasmin Bylstra SingHealth Duke-NUS Institute of Precision Medicine	Presentation by Twist Bioscience: Precision in Genomics: The flexibility and power of targeted sequencing Ms Katie Larkin Genomics Platform, Broad Institute of MIT and Harvard
▷ 2.20 pm - 2.40 pm	Qatar Biobank: From Cohort to Clinics - Validating Data Integrity Across the Healthcare Spectrum Dr Fatima Qafoud Qatar Biobank	A cutting-edge translation program having impact in returning genomic research results Ms Mary-Anne Young Garvan Institute of Medical Research	

▷ 2.40 pm - 3.00 pm	Gearing an entire country for precision medicine Prof Andrew Morris Health Data Research UK	Genetic Counselling Care Pathway in the Development of Mainstreaming Genetic Testing in Malaysia Ms Yoon Sook Yee GENETIX Cancer Research Malaysia	
▷ 3.00 pm - 3.20 pm	Group Q&A Moderator: Prof Sarah Bauermeister University of Oxford	Group Q&A Moderator: Ms Breana Cham KK Women's and Children's Hospital	

3.20 pm - 4.00 pm	Teabreak Networking Session		
		Foyer	

4.00 pm - 5.20 pm	Parallel Track 1: Population Health Grand Ballroom	Parallel Track 2: Genomic Science in Cohorts Meeting Room
▷ 4.00 pm - 4.20 pm	The intersection of precision medicine and population health Prof Tai E Shyong Precision Health Research, Singapore	A comprehensive exploration of the fully phased diploid Indian genome, unraveling its unique attributes within the Pan-Asian genetic landscape Prof Liu Jian Jun Genome Institute of Singapore
▷ 4.20 pm - 4.40 pm	Population genetics in an era of genomic health Prof Eimear Kenny Icahn School of Medicine at Mount Sinai	Large-scale cognitive health research in health and psychopathology Dr Max Lam Precision Health Research, Singapore
▷ 4.40 pm - 5.00 pm	What do we learn by studying biomarkers in diverse populations? Dr Arash Etemadi National Cancer Institute, NIH	A Catalogue of Structural Variation across Ancestrally Diverse Asian Genomes Dr Nicolas Bertin Agency for Science, Technology and Research
▷ 5.00 pm - 5.20 pm	Group Q&A Moderator: Mr Peter Goodhand Global Alliance for Genomics and Health (GA4GH)	Group Q&A Moderator: Dr Ines Atmosukarto Indonesia Ministry of Health

5.20 pm - 5.30 pm	Best Oral and Poster Presentation Closing Remarks Mr Peter Goodhand IHCC Co-Chair and Global Alliance
5.30 pm	End of Programme Day 3



Overview of Sessions



Overview Of Sessions



Plenary 1: NHS Genomic Medicine Service – From Cohorts to Clinics

Prof Dame Sue Hill

NHS England

The talk will outline the experience in establishing the infrastructure and the underpinning policies and strategies to integrate genomics into the national health system in England. Integral to this will be the learnings from the 100,000 genomes project and our ongoing partnership with Genomics England.



Plenary 2: Singapore National Precision Medicine Programme - Value Creation for Health and the Economy

Prof Patrick Tan

Precision Health Research, Singapore

To realise the benefits of Precision Medicine, the Singapore government established the National Precision Medicine Programme (NPM), a three-phase roadmap.

In NPM Phase I, we generated the world's largest multi-ethnic Asian reference database (SG10K Health), which provided insights into genetic conditions prevalent in Asia and a resource for clinicians to use as a reference database to manage patients with genetic disease. NPM Phase II is currently underway to scale this genomic-phenotypic database to 100,000 Singaporeans (PRECISE-SG100K), linking genomic, phenotypic, and clinical outcome data. PRECISE-SG100K will contribute to address key questions about Asian health and disease, covering populations currently under-represented in public databases.

The talk will describe how NPM has adopted a whole-of-government and multidisciplinary approach to overcome implementation barriers and maximise the opportunities of precision medicine research.



Plenary 3: Implementing genomic medicine into clinical practice – a national and international perspective

Prof Kathryn North

Murdoch Children's Research Institute

Over the past 10 years, genomic sequencing has transformed the traditional diagnostic process, providing faster, more accurate and cost-effective diagnosis to many. Translational research programs, such as Australian Genomics, have been key in generating the evidence for diagnostic and clinical utility, as well as cost-effectiveness across a range of clinical indications paving the way for healthcare system implementation. Simultaneously, collaborative efforts nationally and internationally, such as through the Global Alliance for Genomics and Health, have built infrastructure, standards and capacity to enable accurate interpretation of genomic variation at scale. As an exemplar, the International Precision Child Health Partnership (IPCHiP) is a collaboration between the Murdoch Children's Research Institute and three major international paediatric centres to advance child health and genomics to improve diagnosis, implement personalised treatment decisions, and develop new therapeutic targets and treatments that will benefit children around the world.



Plenary 4: Implementing Genomic Medicine Towards Universal Health Coverage for All People

Prof Vajira Dissanayake

University of Colombo, Sri Lanka

In 2018, the Global Genomic Medicine Collaborative that met in Cape Town, South Africa adopted the Cape Town Declaration on Implementing Genomic Medicine Towards Universal Health Coverage by 2030. The Collaborative is now drafting a plan of action that can take us there. In this talk I shall deal with the challenge ahead and the proposed actions. It is hoped that this would result in wider discussion and the development of an advocacy document that could be taken to all governments by the time of the World Health Assembly of the World Health Organization in May 2025.

Biobanks for Precision Medicine

This session aims to explore the pivotal role of biobanks in Asia, Europe and the USA and how they are facilitating the seamless transition from cohort studies to clinical application.



Prof John Chambers

*Precision Health Research,
Singapore*



Prof Chen Zhengming

University of Oxford



Dr Lin Yen-Feng

*National Health Research Institutes,
Taiwan*



Prof Aarno Palotie

*Institute for Molecular Medicine
Finland (FIMM), HiLIFE, University of
Helsinki, Finland and Broad Institute
and Massachusetts General
Hospital, Boston, USA*



**Prof Masayuki
Yamamoto**

*Tohoku University Tohoku Medical
Megabank Organization (ToMMo)*



Dr Geoffrey Ginsburg

*All of Us Research Program,
National Institutes of Health*

Speaker & Moderator



Prof Nahla Afifi

*International Health Cohorts
Consortium (IHCC)*

Moderator



Cancer Genetics

This session aims to inform healthcare professionals on recent discoveries related to the genetic basis of various cancers, and discuss the use of novel diagnostic tools to treat patients with the appropriate therapeutics.



Dr Philip Awadalla
Ontario Institute for Cancer Research



Dr Ho Weang Kee
University of Nottingham Malaysia/Cancer Research Malaysia



Prof Joanne Ngeow
National Cancer Centre Singapore



Dr Arash Etemadi
National Cancer Institute, NIH

Moderator

Complex Traits/Variant Resolution

This session aims to discuss traits and diseases that are affected by multiple genes and environmental influences. Analytical techniques for associating specific genetic variants with complex traits will be demonstrated.



Dr Ammira Al-Shabeeb Akil
Sidra Medicine



Dr Jimmy Lee
Institute of Mental Health



Prof Wong Limsoon
National University of Singapore



Dr Lim Weng Khong
Duke-NUS Medical School

Moderator

Data Driven Discovery

This session aims to highlight research discoveries accelerated by the advent of big data and global data sharing and collaboration among longitudinal population studies.



Dr Raghiv Ali

Our Future Health



Dr Rob Yang

CartaBio Inc



Dr Heidi Rehm

*Massachusetts General Hospital and
Broad Institute*



Dr Thomas Keane

*EMBL- European Bioinformatics
Institute*

Moderator

Ethics and Policy

This session aims to update researchers on the ethical and legal considerations as well as the implications surrounding data sharing and data analysis of an individual's genetic and genomic information.



Dr Angela Ballantyne

University of Otago



Dr Michaela Mayrhofer

BBMRI-ERIC



Prof Julian Savulescu

National University of Singapore



Prof Nicki Tiffin

*South African National Bioinformatics
Institute, University of the Western
Cape*

Moderator

From Cohorts to Data Validation

This session will call to attention the complexities of cohort and participant data collection, large scale data management and analysis to prepare datasets for downstream health and biomedical research.



Prof Andrew Morris

Health Data Research UK



Prof Nicola Mulder

University of Cape Town



Dr Fatima Qafoud

Qatar Biobank



Prof Sarah Bauermeister

University of Oxford

Moderator

Genetic Counselling & Community Engagement

This session aims to highlight the vital role genetic counselors and community engagement plays in fostering meaningful connections between participants and scientists to maximise translational value.



Ms Yasmin Bylstra

SingHealth Duke-NUS Institute of Precision Medicine



Ms Yoon Sook Yee

GENETIX Cancer Research Malaysia



Ms Mary-Anne Young

Garvan Institute of Medical Research



Ms Breana Cham

KK Women's and Children's Hospital

Moderator

Genomic/Precision Medicine for Therapeutic R&D

This session aims to explore the application of genomic analyses to discover, validate and develop novel therapeutic targets, biomarkers and genes that affect the efficacy and safety of new medicines.



Dr Guillermo Del Angel

AstraZeneca



Dr Mark McCarthy

Genentech



Dr Lyndon Mitnaul

Regeneron Genetics Center



Dr Scott Sundseth

International Health Cohorts Consortium (IHCC)

Moderator

Genomic Diversity

Genomic diversity encompasses the vast array of genetic variations within human populations and has significant implications for research, healthcare and society. This session aims to explore the rich tapestry of genomic diversity and highlight its role in shaping individual traits and susceptibility to diseases.



Dr Andres Moreno-Estrada

Advanced Genomics Unit, Cinvestav-Mexico



Dr Paul Thompson

Keck School of Medicine, University of Southern California



Dr Biju Viswanath

National Institute of Mental Health and Neurosciences



Dr Gabriela Repetto

Universidad del Desarrollo

Moderator

Genomic Science in Cohorts

This session aims to explore how the cohort infrastructure can be used as a source for genomic research. It identifies the requirements for cohort studies, in terms of design, consent, and data and sample collection, to contribute to genomic science.



Dr Nicolas Bertin

Agency for Science, Technology and Research



Prof Liu Jian Jun

Genome Institute of Singapore



Dr Max Lam

Precision Health Research, Singapore



Dr Ines Atmosukarto

Indonesia Ministry of Health

Moderator

Genomic Screening

This session aims to explore the use of genomic analysis technologies to deliver prognoses for both common and rare genetic diseases and what are the implications of the applications.



Dr Chien Yin Hsiu

National Taiwan University



Prof Martin Delatycki

Murdoch Children's Research Institute



Prof Thong Meow-Keong

Universiti Tunku Abdul Rahman



Clinical A/Prof Tan Ee Shien

Precision Health Research, Singapore

Moderator

Sponsored Industry Talks

Attend the Industry Talks, where industry experts will share valuable insights and the latest advancements. Connect with professionals and expand your knowledge at these informative sessions.



Presentation by PacBio

Prof Lili Milani
Estonia Biobank, Estonian Genome
Center, University of Tartu



Presentation by MGI

Dr Radoje (Rade) Drmanac
MGI Tech



Presentation by BC Platforms

Mr Nino da Silva
BC Platforms



Presentation by SomaLogic

Dr Stephen A. Williams
SomaLogic



Presentation by Illumina

Dr Kyle Farh
Illumina



Presentation by Olink

Dr Julia Carrasco-Zanini Sanchez
Queen Mary University of London



Presentation by Oxford Nanopore

Ms Cora Vacher
Oxford Nanopore Technologies



Presentation by NalaGenetics

Dr Mar Gonzalez-porta
NalaGenetics



Presentation by Novartis

Dr Ting Teck Wah
KK Women's and Children's Hospital



Presentation by Nightingale Health

Dr Jeffrey Barrett
Nightingale Health



Presentation by Twist Bioscience

Ms Katie Larkin
Genomics Platform, Broad Institute of
MIT and Harvard

Pharmacogenomics

This session aims to explore the relationship between an individual's genotype and their response to medicines. Specific population data and regional implementation practices that have the potential for making better medication and dosing decisions will be presented.



Prof Collet Dandara
University of Cape Town



Dr Elaine Lo Ah Gi
National University Hospital



Prof Chonlaphat Sukasem
Ramathibodi Hospital, Mahidol University



Mr Grant M. Wood
Global Genomic Medicine Collaborative (GGMC)

Moderator

Population Health

This session aims to discuss the dynamics of population health within the context of the shifting global healthcare landscape, examining how population-level data can inform and enhance clinical practice, bridging the gap from cohorts to clinics.



Dr Arash Etemadi
National Cancer Institute, NIH



Prof Eimear Kenny
Icahn School of Medicine at Mount Sinai



Prof Tai E Shyong
Precision Health Research, Singapore



Mr Peter Goodhand
Global Alliance for Genomics and Health (GA4GH)

Moderator

Rare Diseases

Rare diseases pose unique challenges and collaboration is essential in addressing the complexities of rare diseases and to drive innovation in research and patient care. This session aims to facilitate dialogue between researchers and clinicians invested in advancing rare disease research.



Dr Claudia Gonzaga-Jauregui

International Laboratory for Human Genome Research, UNAM



Dr Saumya Jamuar

KK Women's and Children's Hospital



Dr Gabriela Repetto

Universidad del Desarrollo



Prof Duangrurdee Wattanasirichaigoon

Faculty of Medicine Ramathibodi Hospital, Mahidol University

Moderator



Research in LMICs

This session aims to encourage networking with and among researchers in low- and middle-income countries, identify challenges in these settings and foster the use of quality studies in such settings for precision medicine.



Dr Eva Maria Cutiongco-de la Paz

Institute of Human Genetics, National Institutes of Health, University of the Philippines and Philippine Genome Center



Ms Chen Mengji

World Health Organization

Moderator



Dr Janewit Wongboonsin

Division of Nephrology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Thailand | Renal division, Brigham and Women's Hospital, Boston, USA



Prof Gunadi

Universitas Gadjah Mada

Moderator



Prof Nicki Tiffin

South African National Bioinformatics Institute, University of the Western Cape



Training/Early Career Scientists

This session is open to all Early Career Scientists and will delve into the essential components of nurturing and supporting emerging scientists as they navigate through multifaceted ecosystems that make up their academic and professional pathways.



Prof Richard Haspel
*Beth Israel Deaconess Medical
Center and Harvard Medical School*



Dr Victoria Nembaware
University of Cape Town



Dr Sharon Plon
Baylor College of Medicine



Prof Michele Ramsay
University of the Witwatersrand

Moderator

Speakers are arranged in alphabetical order based on their last names.



Accepted Abstracts



Accepted Abstracts

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
1	SEPT–GD: a decision tree to prioritise potential RNA splice variants in cardiomyopathy genes for functional splicing assays in diagnostics	Dr Mohamed Alimohamed	Muhimbili University of Health and Allied Sciences	
2	Single-cell analysis of human diversity in circulating immune cells	Dr Kock Kian Hong	Genome Institute of Singapore, Agency for Science, Technology and Research	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
3	Understanding the purpose of prescribing is key for enabling shared decision-making with hospitalised patients on antibiotic therapy: A cross-sectional study in Singapore	Dr Angela Chow	Tan Tock Seng Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
4	Transforming Genomics Research through Community Engagement: A Case Study from the Pukapuka Community in Aotearoa, New Zealand.	Dr Jaye Moors	Variant Bio	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
5	Harnessing AI for Precision Antibiotics: Enablers and Ethical Considerations	Dr Angela Chow	Tan Tock Seng Hospital	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
6	Identifying the unmet needs of Neurofibromatosis Type 1 patients in Singapore	Dr Agnes Lim	Singapore General Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
7	Germline pathogenic variants landscape of endometrial cancer in Singapore	Dr Zhang Zewen	National Cancer Centre Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
8	10K Newborn Genome Project in Qingdao, China: clinical findings and precision health insights	Dr Gao Ya	BGI Research	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
9	Social factors and health: Cohort creation to design innovative, targeted intervention strategies and community care models	Dr Lim Wei-Yen	Tan Tock Seng Hospital	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
10	Utilizing Asian Genomics Data to Identify Vulnerabilities in Hepatocellular Carcinoma Cells	Dr Michael Winther	Engine Biosciences	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
11	Unlocking the potential of large-cohort proteomics studies with mass spectrometry-based proteomics solution	Dr Xuan Yue	Thermo Fisher Scientific	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
12	Systematic Review on the Effectiveness of Risk-Based Screening for Cancer Diagnosis	Fahmy Fadzil	Nanyang Technological University	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
13	Microfluidic isolation of complete platelet-free plasma for enhanced detection of blood extracellular vesicles (EV) microRNAs and surface proteins	Dr Leong Sheng Yuan	Nanyang Technological University	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
15	Determination of genetic variants associated with Sarcoidosis in Sri Lankan Population	Sawani Rodrigo	University of Colombo	
16	TAS-PGx: Targeted Adaptive Sampling-Long Read Sequencing for Enhanced Pharmacogenomics Profiling and Genome-Wide Variant Analysis	Dr Mar Gonzalez-Porta	Nalagenetics	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
17	Bridging Data and Clinical Decision-making: Case Study Analysis of Hepatocellular Carcinoma with Enhanced Microbiome Insights	Dr Damien Keogh	BluMaiden Biosciences	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
18	A learning and training agenda with a global focus: Delivering large-scale knowledge and skills development in real-time	Dr Michelle Bishop	Wellcome Connecting Science	
19	Whole-genome sequencing of half-a-million China Kadoorie Biobank participants	Dr Jin Xin	BGI Research	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
20	Addressing the 'Leaky Pipe' in Colorectal Cancer Genetics Referrals: The Critical Need for Optimization	Nur Diana Ishak	National Cancer Centre Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
21	A modular approach to compiling data sharing agreements to promote more equitable terms for data sharing.	Dr Tsaone Tamuhla	South African National Bioinformatics Institute	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
22	Nex Gen Sequencing-based proteomics and their utility in large population health cohorts	Dr Cynthia Lawley	Olink	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
23	Decoding the molecular ageing spectrum of Asians and its clinical prospects in 10,018 Singaporeans	Dr Ives Lim	Bioinformatics Institute, Agency for Science, Technology and Research	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
24	Spatial transcriptomic analysis of triple-negative breast cancer occurring during pregnancy and post-involution in women of African ancestry	Dr Victoria Seewaldt	City of Hope Comprehensive Cancer Center	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
26	Broad-scale proteomics combined with genomics help identify early detection and causal biomarkers in cancer	Dr Cynthia Lawley	Olink Proteomics	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
27	Genomic Insights into COVID-19 Susceptibility and Severity Among Singaporeans: A Multi-National Platform Initiative	Penny Chan	Bioinformatics Institute, Agency for Science, Technology and Research	Oral Presenter 1, Day 3 - 23 Aug (Fri), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa
28	Is Genetic Testing Cost-effective to Detect and Manage Lynch Syndrome in Singapore?	Sara Tasnim	Lee Kong Chian School of Medicine, Nanyang Technological University	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
29	Dietary risk factors for visceral adiposity in multiethnic Asian population: An epidemiological and metabolomics study	Dr Theresia Mina	Nanyang Technological University	Oral Presenter 2, Day 3 - 23 Aug (Fri), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa
30	Multi-locus Inherited Neoplasia Alleles Syndromes in Cancer: An updated review and implications for clinical practice	Jeanette Yuen	National Cancer Centre Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
32	Genetic counselling and testing for kidney disease by nephrologists – a single-center implementation study	Dr Lee Tung Lin	Singapore General Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
33	Strategies to improve implementation of cascade testing in hereditary cancer syndromes: A systematic review	Dr Chiang Jianbang	National Cancer Centre Singapore, Medical Oncology	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
34	Nephrologists' perspectives on facilitators and barriers of clinical implementation of genetic testing in Singapore	Ng Jun Li	National University of Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
35	Understanding Women's Preferences for Undergoing Breast Cancer Risk Assessment: Insights from a Discrete Choice Experiment	Dr Wang Yi	Saw Swee Hock School of Public Health, National University of Singapore	Oral Presenter 3, Day 3 - 23 Aug (Fri), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
36	Beyond Lipid Profile: Enhancing Electronic Phenotyping with Unstructured Data	Meenakshi Dubey	National University of Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
37	Adherence to risk management guidelines in individuals with hereditary cancer conditions in Singapore	Sowmya Jonnagadla	National Cancer Centre Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
39	Vasculature damage and dysmetabolism in heart failure with preserved ejection fraction.	Wu Lik Hang	National University of Singapore	Oral Presenter 5, Day 1 - 21 Aug (Wed), 12.00 pm - 1.30 pm, Wisteria & Camellia Villa
40	Metabolic variation reflects dietary intake in a multi-ethnic Asian population	Dr Dorrain Low	Lee Kong Chian School of Medicine, Nanyang Technological University	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
41	Creating an efficient and truly federated international data market for genomic and health data.	Dr Oriol Canela-Xandri	University of Edinburgh / Omecu Ltd.	
42	Bravo automation of Agilent Avida targeted enrichment for high-throughput detection of genomic alteration and DNA methylation	Dr Lee Chee Yang	Agilent Technologies Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
43	Obesity increases susceptibility to symptomatic flaviviral infection and alters host response to infection	Dr Ayesa Syenina	Duke-NUS Medical School	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
44	The use of optical genome mapping in prenatal evaluation for translocation carriers	Dr Chin Hui-Lin	National University Hospital	
45	Fetal Akinesia and biallelic variants in TNNI2	Dr Denise Goh Li Meng	National University of Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
46	Precision Medicine for Diabetic Individuals: A Joint Malaysia-UK Effort (PRIME) exploiting a multi-ethnic cohort resource for clinical applications	Dr Rahman Jamal	UKM Medical Molecular Biology Institute (UMBI, Universiti Kebangsaan Malaysia)	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
47	A proposed framework prioritizing pharmacogenomic drug-gene interactions in an Asian context for chemotherapy	Dr Janice Goh	Bioinformatics Institute, Agency for Science, Technology and Research	Oral Presenter 1, Day 2 - 22 Aug (Thu), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
48	Empiric treatment with aspirin and ticagrelor is the most cost-effective strategy in patients with minor stroke or transient ischemic attack	Dr Kaavya Narasimhalu	National Neuroscience Institute	Oral Presenter 2, Day 2 - 22 Aug (Thu), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa
49	Genomic landscape of drug binding and pharmacogenetic variation across diverse populations using SNPdrug3D	Dr Ken Chong	Bioinformatics Institute, Agency for Science, Technology and Research	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
50	Cascade testing for hereditary cancer in Singapore: how population genomics help guide clinical policy	Dr Rebecca Caesar	National Cancer Center Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
51	Genetic model predicts lifelong cardiometabolic risks in women.	Dr Pan Hong	Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research	Oral Presenter 4, Day 3 - 23 Aug (Fri), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa
52	Whole genome sequencing reveals a high incidence of germline pathogenic variants in genes associated with sarcoma across subtypes	Isaac Lin	Lee Kong Chian School of Medicine, Nanyang Technological University	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
53	STCC Unified PD1/PD-L1 Evaluation of Response (SUPER) – a Use-Case Study of the Translational Research Integration and Support Platform	Dr Michał Marek Hoppe	Singapore Translational Cancer Consortium	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
54	Unlocking Skin's Defenses: Repurposing Belinostat for Atopic Dermatitis Treatment	Dr Gowtham Subramanian	Agency for Science, Technology and Research	
55	An End-to-end Privacy-preserving Framework for Predicting Cancer Outcomes	Dr Sim Jun Jie	Institute for Infocomm Research	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
56	Understanding baseline determinates for mRNA vaccine immunogenicity	Dr Christine Tham	DUKE-NUS Medical School	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
57	Statin Lactone Metabolism is a Determinant of 5-year Cardiovascular Outcomes Independent of Serum Cholesterol	Eugene Goh	National University of Singapore	Oral Presenter 3, Day 2 - 22 Aug (Thu), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa
58	Genetic Architecture of plasma metabolites in the Southeast Asian population	Dr Pritesh Jain	Lee Kong Chian School of Medicine, Nanyang Technological University	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
59	Phenotypic variability in Ornithine Transcarbamylase deficiency males with the OTC R277W variant: A case report and review of the literature.	Shreya Surendra Shetty	Division of Genetics and Metabolism, Department of Paediatrics, Khoo Teck Puat-National University Children's Medical Institute, National University Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
60	The Dementias Platform UK (DPUK) IHCC Remote Mentoring Programme: Democratizing collaboration and mentoring for Early Career Researchers (ECRs)	Dr Sarah Bauermeister	University of Oxford	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
61	Cascade screening for family members of patients with Familial Hypercholesterolemia in Singapore: FHCARE program	Madhuumetaa Selvakumar	Khoo Teck Puat Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
62	Targeted Full-Genomic Gene Panel as Diagnostics for Uncovering Deep Intronic Variants in Genetic Disorders	Cher Wei Yuan	Institute of Molecular and Cell Biology, Agency for Science, Technology and Research	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
63	Spectrum of Compound Heterozygous, Double Heterozygous and Homozygous variants in Index Patients with Familial Hypercholesterolemia in Singapore	Chen Hoe Meng	Clinical Research Unit, Khoo Teck Puat Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
64	To test or not to test? A measure of informed choice for Hereditary Breast and Ovarian Cancer Syndrome testing	Chua Zi Yang	National Cancer Centre Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
65	From cohorts to the clinic: interactively visualising amyotrophic lateral sclerosis (ALS) future risk projections	Dr Jane Ong Siying	Singapore Institute of Clinical Sciences, Agency for Science, Technology and Research	Oral Presenter 1, Day 1 - 21 Aug (Wed), 12.00 pm - 1.30 pm, Wisteria & Camellia Villa
66	Cost-effectiveness of Pre-emptive Pharmacogenetic Panel Testing versus No Testing in a Multi-ethnic Asian Population	Jamaica Roanne Briones	National University of Singapore	Oral Presenter 4, Day 2 - 22 Aug (Thu), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa
67	Genomic co-localisation, child proteomics and brain imaging support a link between obesity-associated genotype and child language development.	Dr Huang Jian	Singapore Institute for Clinical Sciences	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
68	From Cohort to Clinic: Return of genetic incidental findings in the population-based Multi-Ethnic Cohort	Dr Sim Xueling	Saw Swee Hock School of Public Health, National University of Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
71	A Partially Connected Neural Network for Enhanced Polygenic Risk Score Prediction	Dr Weng Haoyi	WeGene	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
72	Telomere Length Distribution and Genome-wide Association Study Among Singaporean Cohorts	Trang Nguyen	Nanyang Technological University	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
73	Plasma proteomic signatures of adiposity are associated with cardiovascular risk factors and type 2 diabetes risk in a multi-ethnic Asian population.	Dr Charlie Lim	Saw Swee Hock School of Public Health, National University of Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
74	Metabolome-wide association of carotid intima media thickness in an Asian population cohort identifies FDX1 as a determinant of cholesterol metabolism and cardiovascular risk.	Dr Nilanjana Sadhu	Lee Kong Chian School of Medicine, Nanyang Technological University	Oral Presenter 3, Day 1 - 21 Aug (Wed), 12.00 pm - 1.30 pm, Wisteria & Camellia Villa
75	Integrative analysis of omics summary data reveals putative mechanisms underlying dilated cardiomyopathy	Konstanze Tan	Lee Kong Chian School of Medicine, Nanyang Technological University	Oral Presenter 4, Day 1 - 21 Aug (Wed), 12.00 pm - 1.30 pm, Wisteria & Camellia Villa
76	Leveraging existing large-scale genomic studies for assessment of genetic risk within Singapore	Ashley Lim Jun Wei	National University of Singapore / Illumina Inc.	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
77	Necessity of case-control joint calling for accurate evaluation of rare variant disease contribution	Neo Jun Hao	National University of Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
78	Can polygenic risk scores from different genotyping arrays be used interchangeably?	Dr Ho Peh Joo	Genome Institute of Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
79	Predictors for Positive Genetic Diagnosis of Monogenic Kidney Disease.	Dr Lim Ru Sin	Tan Tock Seng Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
80	Early life proteomic markers for child depressive symptoms	Che Jinyi	Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
81	Genetics and Genomics Education Programmes in Singapore	Dr Koh Ai Ling	KK Women's and Children's Hospital, SingHealth	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
82	Association of thyroid peroxidase antibodies and high-sensitivity C-reactive protein: a cross-sectional analysis from the ELSA-Brasil study	Dr Isabela Bensenor	Universidade de São Paulo	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
83	Thyroid peroxidase antibodies are associated with incidence, but not progression, of coronary artery calcification: analysis of the ELSA-Brasil cohort study	Dr Isabela Bensenor	Universidade de São Paulo	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
84	Constructing a 3D anatomical atlas of hepatic vasculature variants for surgical planning	Dr Too Chow Wei	Singapore General Hospital	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
85	The Genetic Heterogeneity & Phenotypic Continuum of Developmental and Epileptic Encephalopathies: Data from a Sri Lankan Cohort	Dr Hasani Hewavitharana	Lady Ridgeway Hospital for Children, Ministry of Health	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
86	De-novo Sub-clustering of Young-Onset Type 2 Diabetes Identify Subgroups with Distinct Clinical Characteristics	Kee Kai Xiang	Khoo Teck Puat Hospital	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
87	Circulating proteomic profiles are associated with the onset of type 2 diabetes in a multi-ethnic Asian population – a longitudinal study	Dr Liang Yujian	National University of Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
88	Deciphering the Epigenetic Role of Small Non-coding RNA in Obesity	Felicia Tin	Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
89	Can deep learning-based retinal omics personalise cardiovascular disease prediction?	Chan Yarn Kit	Duke-NUS Medical School	
90	Coronary calcium score levels and risk for fatal and non-fatal cardiovascular events – the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil)	Dr Isabela Bensenor	Center for Clinical and Epidemiological Research, University Hospital, University of Sao Paulo, Sao Paulo, Brazil	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
92	Nurturing minds, nourishing bodies: Associations between maternal mental health, feeding practices and child eating behaviours in the GUSTO cohort.	Dr Anna Magdalena Fogel	Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research	
93	Predicting early-life BMI Trajectories through Proteomics Data by learning Parametric Koopman Decomposition	Dr Chen Yurui	Department of Mathematics, National University of Singapore, and Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research	Oral Presenter 2, Day 1 - 21 Aug (Wed), 12.00 pm - 1.30 pm, Wisteria & Camellia Villa
94	Public expectations about the public interest of research	Dr G. Owen Schaefer, Marthe Smedinga, Toh Hui Jin	Centre for Biomedical Ethics, Yong Loo Lin School of Medicine, National University of Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
95	Spectrum of FBN1 Variants and Their Phenotypic Correlations in a Cohort of Twelve Sri Lankan Patients	Dr Yasas Dahamuna Kolambage	Sabaragamuwa University of Sri Lanka	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
96	Evaluating quantitative proximity extension assay as a monitoring tool for precision health	Dr Eugenia Ong	Viral Research and Experimental Medicine Centre @ SingHealth Duke-NUS / Duke-NUS Medical School	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
97	Next generation proteomic profiling of a pan-cancer cohort for the development of screening tools for cancer	Dr Renu Balyan	Olink Proteomics	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
98	Severe Combined Immunodeficiency (SCID) Screening in Singapore	Sherry Poh	KK Women's and Children's Hospital	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
99	The Human Gut Microbiome in Pregnancy and Early Life: Insights from the GUSTO and S-PRESTO multi-ethnic Asian Cohorts	Dr Xu Jia	Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research	
100	Comparing Polygenic risk, Elastic Nets and Interpretable Artificial Intelligence Approaches in the Prediction of Vitamin D Insufficiency in Pregnant Women and their Children	Dr Geoffrey Tan	Institution of Mental Health Singapore	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
101	Genetic adaptations of humans to the diverse environments of South America	Dr Amit Gourav Ghosh	Singapore Centre for Environmental Life Sciences Engineering (SCELS), NTU	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
102	Virtual panels have a superior diagnostic yield for inherited rare diseases relative to static panels	Dr Massy Sheikh Hassani	Al Jalila Children's Hospital	
103	From North Asia to South America: Tracing the longest human migration through genomic sequencing	Dr Kim Hie Lim	Nanyang Technological University	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
104	The Nile Delta of Precision Medicine: Prenatal Genomic Care in Highly Inbred Population	Dr Mohammed Alowain	King Faisal Specialist Hospital and Research Centre	
106	Genomics for KIDS in ASEAN: Improving access to genomic medicine for paediatric rare disease in Southeast Asia	Dr Chan Sock Hoai	KK Women's and Children's Hospital	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
107	Defining and Reducing Variant Classification Disparities Across Human Populations	Dr Irene Gallego Romero	St Vincent's Institute of Medical Research	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
108	Higher blood biochemistry-based biological age developed by advanced deep learning techniques is associated with frailty in geriatric rehabilitation inpatients: RESORT	Dr Guan Lihuan	National University of Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
109	The Federated EGA: A global network for discovery and access for sensitive human data	Dr Thomas Keane	EMBL European Bioinformatics Institute	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
110	Clinical Benefits of CYP2C19 Genotype-Guided Therapy of Antiplatelets against Standard Care in Stroke Patients: Meta-Analysis	Dr Mohitosh Biswas	University of Rajshahi	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
111	Lipidomic signatures of insulin resistance and metabolic flexibility in Asian subjects identified from hyperinsulinemic-euglycemic clamp studies	Dr Sartaj Mir	National University of Singapore	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
113	Advancing Personalized Medicine and Public Health: The Role and Impact of Qatar Biobank	Dr Marwa Eldeeb	Qatar Biobank	
114	A 15-year Pharmacogenomics Tests in a Thai Pharmacogenomic and Personalized Medicine Center	Maliheh Ershadian	Mahidol University	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
115	Analysis of 100,000 Whole Genomes Reveals Genetic Basis of Pregnancy Phenotypes and Complications in Chinese Population	Dr Zhu Huanhuan	BGI Research	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
116	Unlocking Medical Insights through the Power of Taiwan Biobank Whole Genome Data	Dr Jacob Hsu Shujui	National Taiwan University	Oral Presenter 5, Day 2 - 22 Aug (Thu), 12.40 pm - 2.00 pm, Wisteria & Camellia Villa
117	Familial coaggregation and shared genetic loading of psychiatric and gastrointestinal disorders	Dr Pan Yi-Jiun	School of Medicine, College of Medicine, China Medical University, Taichung, Taiwan	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
118	Incorporating polygenic liability and family history for predicting psychiatric diseases in the Taiwan biobank	Dr Wang Shi-Heng	National Center for Geriatrics and Welfare Research, National Health Research Institutes, Miaoli, Taiwan	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
119	Gene therapy for Spinal Muscular Atrophy with Onasemnogene Apeparvovec: real-world experience, challenges and ethical concern in Malaysia	Dr Tae Sok Kun	University Malaya	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer

ID	Abstract title	Presenting Author(s)	Institution / Organisation	Presentation
120	Bridging Gaps in Genomic Research: Insights from Diverse Indonesian Populations	Dr Pradiptajati Kusuma	Mochtar Riady Institute for Nanotechnology	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
121	CREATION OF THE PHILIPPINE LIST OF RARE DISEASES USING A SCORING SYSTEM	Dr Ebner Bon Maceda	Institute of Human Genetics, National Institutes of Health, University of the Philippines Manila	Poster Presenter, Day 2 - 22 Aug (Thu), Foyer
122	XY Leap Clinical Decision Support Software delivers DNA-guided Individualized Medicine 3.0 therapeutics at Point-of-Care	Dr Andrew Winnington	Precision Medicine International Limited	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
124	Pharmacogenomics at Scale: Database Construction and Variation Analysis of 257 Pharmacogenes from a Chinese Newborn Cohort with 6,442 Individuals	Dr Jian Min	BGI Research	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
125	Pharmacogenetic Variability of UGT2B7, CYP3A4, CYP3A5 and CYP2B6 genes in an African-American Sickle Cell Disease Patient Cohort	Dr Cheedy Jaja	University of South Florida	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer
126	Genetic Counseling for Sickle Cell Hemoglobinopathies in Sub-Saharan Africa: A Nursing Champion Implementation Science Study Protocol	Dr Cheedy Jaja	University of South Florida	Poster Presenter, Day 2 - 22 Aug (Thu), Grand Ballroom
127	Large-scale protein-disease risk association analysis in the UK Biobank: Introducing an extensive and freely available research resource in Olink® Insight	Dr Renu Balyan	Olink Proteomics	Poster Presenter, Day 1 - 21 Aug (Wed), Grand Ballroom
128	Genetic Variants on Genes Related to Endomembrane System are Associated with Longevity	Dr Li Yan	BGI Research	Poster Presenter, Day 1 - 21 Aug (Wed), Foyer

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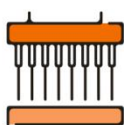
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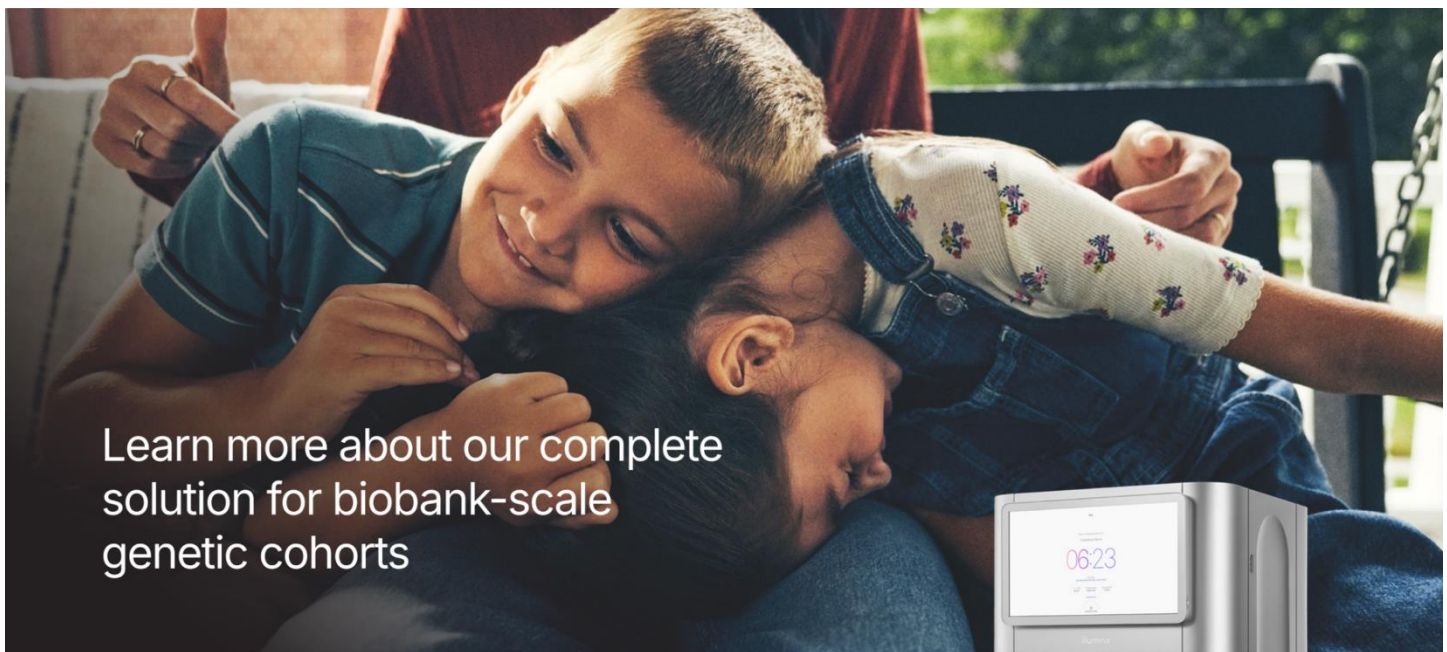
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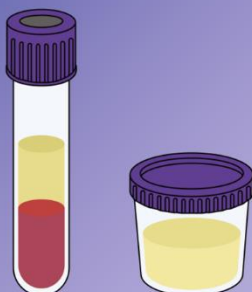
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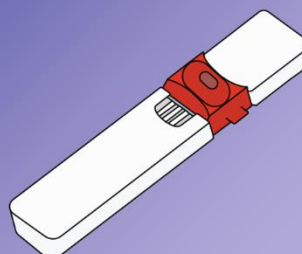
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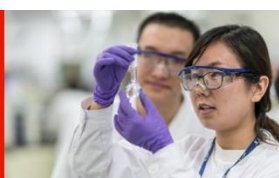
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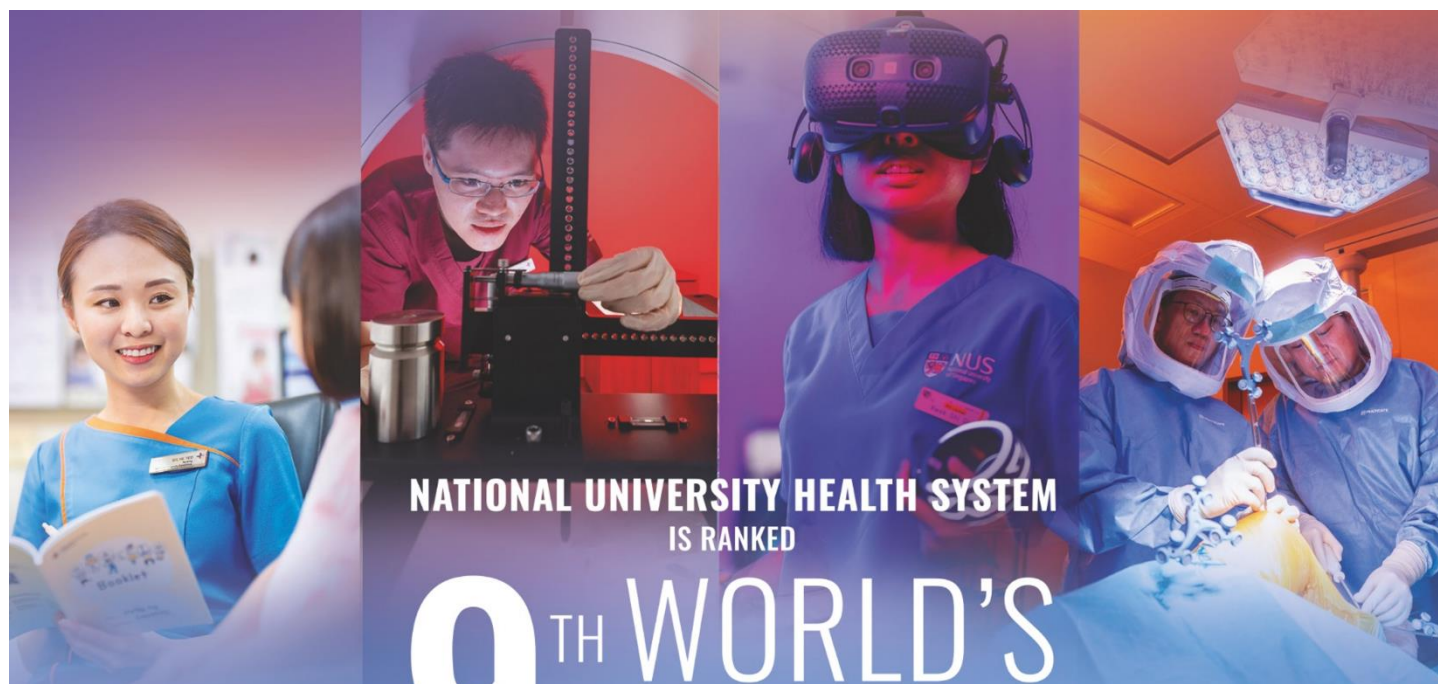


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