

5th BCM-CUHK-UMJoint Symposium in CLINICAL GENETICS

Programme | 21 Sep 2024 | Day 1

08:00 - 08:45	Registration	Reception
08:45 - 10:30	Plenary Session 1 Chairpersons: LEUNG Tak Yeung; THONG Meow-Keong	Summit 1
08:45 - 09:20	Opening and Diagnosis and Therapies for Brittle Bone Diseases	LEE Brendan
09:20 - 09:55	Facilitating the diagnosis of rare genetic disorders by artificial intelligence through facial imaging analysis	HSIEH Tzung-Chien
09:55 - 10:30	Implementation of prenatal genome sequencing: benefits and challenge	CHOY Richard
10:30 - 11:00	Tea Break	
Parallel Session 1A: Thalassemia		Summit 1
11:00 - 12:30	Chairpersons: LIM Karen; SETHI Neha	
11:00 - 11:20	Long-read sequencing in expanded carrier screening: thalassemia	CHOY Richard
11:20 - 11:40	In utero transfusion for Hb Barts fetuses	HUI Annie
11:40 - 12:00	Stem cells and gene therapy for thalassemia	LEUNG Tak Yeung
12:00 - 12:20	Genetic Diagnosis of Thalassemia and Complex Monogenetic Diseases with LongRead Sequencing	PENG Zhiyu
12:20 - 12:30	MGI product launch	GUO Shirley
Parallel Session 1B: Advances in Genomic Diagnosis in Rare and Undiagnosed Diseases		Summit 2
11:00 - 12:30	Chairpersons: DONG Elvis; MOEY Lip Hen	
11:00 - 11:20	Diagnosing the Undiagnosed: A Malaysian Experience in Genomic Testing	ONG Winnie Peitee
11:20 - 11:40	Clinical validation of RNAseq for rare disease diagnosis	LIU Pengfei
11:40 - 12:00	Value of bioinformatics re-analysis in patients with negative exome findings	MOHD Khalid
12:00 - 12:20	Whole genome sequencing in detecting multiple molecular diagnoses in a pediatric setting	CHAU Matthew
12:20 - 12:30	Discussion	
12:30 - 13:30	Lunch Symposium by Xcelom Clinical Solution for Complex Monogenic Diseases Based on SMRT Technology	Summit 1 ZHAN Jiahan
12:30 - 13:30	Lunch Symposium by Norvatis <ul style="list-style-type: none"> Real-world experience of gene therapy with Zolgensma for patients with SMA in Malaysia Gene therapy access: challenges and opportunities in developing country 	Summit 2 TAE Sok Kun THONG Meow-Keong

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Parallel Session 2A: Genetics in Reproductive Medicine		Summit 1
13:30 - 15:00	Chairpersons: CHAN David; RAHMAH Binti Saaïd	
13:30 - 13:50	Structural variant as an underappreciated factor to human infertility	DONG Elvis
13:50 - 14:10	All-in-one PGT testings	CHOY Richard
14:10 - 14:30	Preconception workup in consanguineous couples	KRISHNAN Vivek
14:30 - 14:50	Abstract Presentation	
	1. Molecular genetic characterization of premature ovarian insufficiency through patients with X;autosome translocation	CHEN Lin
	2. Identification of cryptic chromosomal rearrangements through Optical Genome Mapping	ZHOU Chunxiang
14:50 - 15:00	Discussion	
Parallel Session 2B: Inborn Errors of Metabolism		Summit 2
13:30 - 15:00	Chairpersons: CHONG Shuk Ching; LEONG Huey Yin	
13:30 - 13:50	Use of metabolomics in inborn errors of metabolism	SCAGLIA Fernando
13:50 - 14:10	Antenatal presentation of IEM cases	CHONG Josephine
14:10 - 14:30	Clinical utility of urine metabolomic profiling in diagnosis of patients with suspected IEM	LAW Eric
14:30 - 14:50	Cholestatic liver disease in childhood	CHEW Hui Bein
14:50 - 15:00	Discussion	
15:00 - 15:30	Tea Break	
Parallel Session 3A: Spinal Muscular Atrophy		Summit 1
15:30 - 17:00	Chairpersons: DONG Elvis; THONG Meow-Keong	
15:30 - 15:50	Genetic carrier screening for Spinal Muscular Atrophy	CAO Ye
15:50 - 16:10	Prenatal USG and genetic diagnosis of Spinal Muscular Atrophy	WAH Isabella
16:10 - 16:30	Neonatal screening for Spinal Muscular Atrophy	CHONG Shuk Ching
16:30 - 16:50	Gene therapy for Spinal Muscular Atrophy	BACINO Carlos
16:50 - 17:00	Discussion	
Parallel Session 3B: Mitochondrial Diseases		Summit 2
15:30 - 17:00	Chairpersons: LO Ivan; NGU Lock Hock	
15:30 - 15:50	Emerging Therapies on Mitochondrial Disease	SCAGLIA Fernando
15:50 - 16:10	Mitochondrial replacement	CHAN David
16:10 - 16:30	Metabolic approach to hypoglycaemia	LEONG Huey Yin
16:30 - 16:50	Abstract Presentation	
	1. Genome Sequencing to Overcome Diagnostic Challenges in Paediatric Patients with Rare Diseases	SHI Meng Meng
	2. Bi-allelic pathogenic variants in the TMPRSS7 gene cause neurodevelopmental disorders	LU Weiliang
16:50 - 17:00	Discussion	

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Parallel Session 4A: Non-Invasive Prenatal Testing		Summit 1
09:00 - 10:30 Chairpersons: HUI Annie; NARAYANAN Vallikannu		
09:00 - 09:20	NIPT for multiple pregnancies	CHOY Richard
09:20 - 09:40	NIPT for microdeletion syndromes	KWAN Angel
09:40 - 10:00	NIPT and Mosaicism	LEUNG Tak Yeung
10:00 - 10:20	Discordant gender result between NIPT and USG	LIM Karen
10:20 - 10:30	Discussion	
Parallel Session 4B: Genetic Hearing Loss		Summit 2
09:00 - 10:30 Chairpersons: LIU Pengfei; HANIFFA Muzhirah		
09:00 - 09:20	Genetic carrier screening for hearing loss	CAO Ye
09:20 - 09:40	Neonatal screening for hearing loss	KULASEGARAH Jeyanthi
09:40 - 10:00	Gene therapy for genetic deafness	SHU Yilai
10:00 - 10:20	Contributions of common genetic variants to spoken language learning	WONG Patrick
10:20 - 10:30	Discussion	
10:30 - 11:00 Tea Break		
Parallel Session 5A: Skeletal Dysplasia		Summit 1
11:00 - 12:30 Chairpersons: WAH Isabella; ONG Winnie Peitee		
11:00 - 11:20	New Therapies for Skeletal Dysplasias	LEE Brendan
11:20 - 11:40	Chondrodysplasia punctata binder's and beyond	KRISHNAN Vivek
11:40 - 12:00	Challenges in prenatal diagnosis of Achondroplasia	LEUNG Tak Yeung
12:00 - 12:20	Abstract Presentation	
	1. Case series with de novo variants of dominant monogenic disorders detected by non-invasive prenatal test (NIPT) in Vietnam	TANG Sang Hung
	2. Prenatal Diagnosis of Fetuses with Congenital Anomalies of Kidney and Urinary Tract (CAKUT)	LIU Fangzi
12:20 - 12:30	Discussion	
Parallel Session 5B: Advances in Therapy for Genetic Diseases		Summit 2
11:00 - 12:30 Chairpersons: BACINO Carlos; CHEW Hui Bein		
11:00 - 11:20	Design and validation of antisense oligonucleotides for rare disease therapy	LIU Pengfei
11:20 - 11:40	Genetic and targeted therapy of vascular malformations	LEONG Kin Fon
11:40 - 12:00	Update on solid organ transplantation in inborn errors of metabolism	SCAGLIA Fernando
12:00 - 12:20	Ethical issues of gene therapy in low/middle income country	THONG Meow-Keong
12:20 - 12:30	Discussion	

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12:30 - 13:30	Lunch Symposium by Zhejiang Biosan Biochemical Technologies Co., Ltd Biosan Services contribute to the High-quality Development of Maternal and Child Medical Genetics	Summit 1 YOU Ying
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12:30 - 13:30	Lunch Symposium by Astrazeneca Real-world experience of selumetinib in neurofibromatosis Type 1 – plexiform neurofibroma in the Asian population	Summit 2 LEE Beom Hee
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Parallel Session 6A: Cyto-genomic Diagnosis		Summit 1
13:30 - 15:00	Chairpersons: LIU Pengfei; TAE Sok Kun	
13:30 - 13:50	Methodologies and applications in cyto-genomic laboratories	DONG Elvis
13:50 - 14:10	Detection of clinically relevant monogenic copy-number variants by comprehensive genome-wide microarray with exonic coverage	CHAU Matthew
14:10 - 14:30	The Nile Delta of Precision Medicine: Prenatal Genomic Care in Highly Inbred Population	AL-OWAIN Mohammed
14:30 - 14:50	Incontinentia pigmenti: a glimpse of gene conversion as a disease mechanism	LO Ivan
14:50 - 15:00	Discussion	

Parallel Session 6B: Cancer Genomics & others		Summit 2
13:30 - 15:00	Chairpersons: SCAGLIA Fernando; MAZLAN Rifhan	
13:30 - 13:50	Rare paediatric solid tumours	FOO Jen Chun
13:50 - 14:10	Malaysia experience in mainstreaming genetic testing in cancer management	YOON Sook Yee
14:10 - 14:30	Malaysia Experience in Diagnosing Hereditary Aortopathy	HANIFFA Muzhirah
14:30 - 14:50	Abstract Presentation	
	1. Pathogenic and likely pathogenic variants in familial breast cancer and the implication of cancer genetic counseling in patients and healthy family members: a study of 53 Indonesian familial cancer cases	MUNIROH Muflihatul
	2. Genomic and Neural Encoding Tests in Early Identification of Autism	LAM Wai Fan Fanny
14:50 - 15:00	Discussion	

15:00 - 15:30	Tea Break	
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15:30 - 17:00	Plenary Session 2 Chairpersons: LEE Brendan; CHOY Richard	Summit 1
15:30 - 16:00	Expanded parental carrier screening: are you ready?	LEUNG Tak Yeung
16:00 - 16:30	Cancer genomics and recent advances in screening, diagnosis and therapeutics	CHEONG Sok Ching
16:30 - 17:00	Advances in the diagnosis and treatment of achondroplasia	BACINO Carlos