1st UM-CUHK Certificate Course in Clinical Genetics and Genomics

'Integrating clinical (prenatal and postnatal) and laboratory genetics and genomics'

Co-organizers:
Department of Pediatrics, Faculty of Medicine, University of Malaya &
Department of Obstetrics and Gynecology, The Chinese University of Hong Kong

11th – 13th July 2017
(Tuesday-Thursday)
0830 - 1800
CUBE, Faculty of Medicine,
University of Malaya,
Kuala Lumpur, Malaysia

Who should attend?
Geneticists, Paediatricians, Obstetricians, Gynaecologists, Researchers, Clinical Specialists, Medical Officers, Nurses and Trainees

International instructors

Prof. Dr. Leung Tak Yeung
The Chinese University of Hong Kong

Prof. Dr. Richard Choy Kwong Wai
The Chinese University of Hong Kong

Prof. Dr. Carlos A. Bacino
Baylor College of Medicine, USA

TOPICS

· Basic genetics to genomes · Disorders in sex development & urogenital tract · Pathogenesis and inheritance of diseases · Neurogenetic diseases & Inborn Error of Metabolism · Cardiac diseases · Genetic and genomic technology · Growth disorders and Facial dysmorphism · Clinical skills and population genetics · Cancer genetics & hematological diseases · Musculo-Skeletal disorders · Legal and ethical issues·

Registration will close once the 50 places are allocated

A certificate of completion of course by
UM-CUHK will be awarded to every participant

Registration Fee

	Early birds (Before 15th June 2017)	Normal rate
Clinical specialists / Consultants /	RM 800	RM1000
Nurses / Trainees / Students / Para-medical / Others	RM700	RM800

Please register via Google Forms, by the link below:
https://goo.gl/forms/FltLuCxQb77YsTZD3

Payable in Ringgit Malaysia (RM) to by :
1) Bank transfer to;

Bank Account name	**: Universiti Malaya**
Bank Account number	**: 80-0127999-8**
Bank	**: CIMB Bank**
Recipient ref.	**: umgenetic2017**

2) Payment by PO Or Money Order to **BENDAHARI UNIVERSITI MALAYA**

Kindly email the payment receipt to umgeneticcourse2017@gmail.com

3) Cash: Payment by cash before 19th June 2017

Enquiry
Email : umgeneticcourse2017@gmail.com
Tel/WA : 019 2440838 (Ms.Rifhan)
Fax : 03 7949 4704

For more information, visit our FB page: UM Genetic Course

Day 1 (11-Jul)

Session 1: Revisit the basic structures: from chromosome to genomes

Session 2: Clinical genetics: Disorders in sex development & urogenital tract

Session 3: Patho-genesis and inheritance of diseases

Session 4: Clinical genetics: Skeletal disorders

Session 1		**Revisit the basic structures: from chromosome to genomes**	
08:30	5	Introduction	TY Leung
08:35	25	From chromosome to genome: basic structure	C Bacino
09:00	30	Copy Number Variants (CNV) and its clinical significance	R Choy
09:30	30	Non-coding regions and its clinical significance	Chan KG
10:00	30	Single Nucleotides Polymorphism (SNP) and its clinical significance	R Choy
10:30	30	Gene Mutation and repair mechanism	Chan KG
11:00	*20*	*Tea break*	
Session 2		**Clinical genetics: Disorders in urogenital tract**	
11:20	30	Understanding the X and Y chromosomes	C Bacino
11:50	30	Prenatal diagnosis of ambiguous genitalia	TY Leung
12:20	30	Genetic syndromes of renal malformation and diseases	C Bacino
12:50	30	Prenatal diagnosis of renal malformation and diseases	TY Leung
13:20	*60*	*Lunch*	
Session 3		**Patho-genesis and inheritance of diseases**	
14:20	40	Chromosomal numeric disorders, deletion and duplication (including micro)	C Bacino
15:00	30	Chromosomal structural rearrangement (translocation, ring, etc)	R Choy
15:30	30	Mendelian inheritance (AS, AR, sex-linked, penetrance and expression)	TBC
16:00	30	Non-Mendelian inheritance (UPD, etc)	R Choy
16:20	*20*	*Tea break*	
Session 4		**Clinical genetics: Skeletal disorders**	
16:20	30	Postnatal diagnosis of genetic dwarfism	C Bacino
16:50	30	Prenatal diagnosis of genetic dwarfism	TY Leung
17:20	30	Arthrogryposis	Thong MK
17:50	30	Prenatal diagnosis of Craniosynostosis	TY Leung
18:20		*The End of the 1nd day*	

Day 2 (12-Jul)

Session 5: Clinical genetics: Cardiac diseases

Session 6: Genetic and genomic technology: from basic to advanced 1

Session 7: Clinical genetics: Growth disorders & Facial dysmorphism

Session 8: Clinical skill and population genetics

Session 5		**Clinical genetics: Cardiac diseases**	
08:30	30	Genetics in congenital cardiac structural abnormalities	C Bacino
09:00	30	Prenatal USG and Genetic diagnosis of cardiac abnormalities	TY Leung
09:30	30	Cardiocutaneous syndromes	C Bacino
10:00	30	Hereditary Cardiomyopathy and Conductions Defects	Thong MK
10:30	30	Marfan and aortopathy syndromes	C Bacino
11:00	*20*	*Tea break*	
Session 6		**Genetic and genomic technology: from basic to advanced 1**	
11:20	30	Cytogenetics: karyotyping and FISH	TBC
11:50	30	Molecular genetics: PCR	R Choy
12:20	30	Molecular genetics: Microarray and sequencing	Veera
12:50	30	Molecular genetics: BoBs	R Choy
13:20	*60*	*Lunch*	
Session 7		**Clinical genetics: Growth disorders & Facial Dysmorphism**	
14:20	40	Genetics in Growth restriction & Overgrowth syndromes	C Bacino
15:00	40	Prenatal USG and genetic diagnosis in fetal growth restriction & overgrowth syndromes	TY Leung
15:40	25	Postnatal assessment of facial Dysmorphism	C Bacino
16:05	25	Prenatal assessment of facial Dysmorphism	TY Leung
16:30	*20*	*Tea break*	
Session 8		**Clinical skill and population genetics**	
16:50	20	Carrier screening	C Bacino
17:10	30	Pedigree construction, analysis and risk assessment	Yoon SY/ Thong MK
17:40	40	Genetic Counseling and resources	C Bacino
18:10		*The End of the 2nd day*	

Day 3 (13-Jul)

Session 9: Clinical genetics: Cancer genetics & hematological diseases

Session 10: Genetic and genomic technology: from basic to advanced 2

Session 11: Clinical genetics: Neuromuscular diseases

Session 12: inborn error of metabolism, Legal and ethical issues

Session 9		**Genetic and genomic technology: from basic to advanced 2**	
08:30	30	Genetic tests for cancer screening and monitoring	R Choy
09:00	40	Fetal Cell-free DNA and NIPT	TY Leung
09:40	30	PGS & PGD	R Choy
10.10	30	NGS in genetic diagnosis	R Choy
10:40	*20*	*Tea break*	
Session 10		**Cancer genetics & hematological diseases**	
11:00	30	Oncogenes and genetic mechanism	TBC
11:30	30	Hereditary and familial cancers	Yoon SY/ Thong MK
12:00	30	Neurofibromatosis & Tuberous Sclerosis	TBC
12:30	30	BRCA gene and breast cancers	Aishah T
13:00	*60*	*Lunch*	
Session 11		**Clinical genetics: Neuromuscular diseases & inborn error of metabolism**	
14:00	30	Overview of Neurogenetic diseases	C Bacino
14:30	30	Genetic muscular disorders (Neurometabolic Disorder)	Wong KT
15:00	40	Prenatal diagnosis of neuromuscular genetic disorders	TY Leung
15:40	30	Genetic contribution to autism and autistic spectrum disorders	C Bacino
16:10	*20*	*Tea break*	
Session 12		**Inborn error of metabolism, Legal and ethical issues**	
16:30	30	IEM: implication on maternal and fetal health	Ngu LH
17:00	30	Newborn screening & acute management of IEM	TBC
17:30	30	Issues on human reproduction technology in Malayisa	Imelda
18:00		*The End of the 3nd day*	