香港中文大學
The Chinese University of Hong Kong

2017/18

Professional Training Course in

Frontiers in Genomic Medicine and Laboratory Technology

(which is the course CNGT6005 in Master of Science in Medical Genetics)

Date: 2-3 September and 5 November 2017

Room 301 and 303, 3/F, Li Ka Shing Institute of Health Science, Prince of Wales Hospital, Shatin
And
Allan Chang Seminar Room, Block E, 1/F, Prince of Wales Hospital, Shatin

Background

With the advances in the molecular genomic and genetic technology, we now have a much better understanding of the etiology of many diseases, which has widened the scope of clinical genetics from traditional paediatic syndromal disorders to fetal diseases, as well as to adult-onset diseases such as neurogenetic and oncological disorders. A wide range of laboratorial technologies also provides not only an accurate genetic diagnosis but also prenatal assessment and carrier screening.

Objectives

- ✓ To provide basic knowledge on genetics and common genetic diseases for clinicians, nurses and laboratory professionals who need to counsel, investigate and manage patients and families at risk of genetic disorders in their daily practice.
- ✓ To update the health care professional on the advances in the genomic and genetic technology in assisting clinical diagnosis and management.
- ✓ To serve as a preparation course for health care professional who want to further pursue a higher education in the field of clinical genetics.

Organiser

Department of Obstetrics and Gynaecology,
The Chinese University of Hong Kong

Entry Requirement

Applicants should possess a degree or equivalent and currently working in the relevant field.

Course Design

The course comprises of lectures and elearning platform. The course is delivered through lectures and interactive case discussion with total 13 hours (1 unit). Overseas renowned professors, local professionals and academic staff of the Department of Obstetrics and Gynaecology, CUHK are invited to be our teaching faculty.

Course Description

The course introduces the latest concepts, methods and tools used in genomic medicine with the aim to provide an in-depth knowledge on how to answer biological questions. Special emphasis will be put on the application and interpretation of microarray and next-generation sequencing data.

Assessment

Written assignment

Language

English

Target Participants

- ✓ Clinical professionals (such as obstetricians, paediatricians, physicians, nurses and midwives), who are managing patients and families with genetic diseases in their daily practice
- ✓ Laboratorial professionals who are working with genetic and genomic testing
- ✓ Clinical and laboratorial professionals who plan for a master degree education in the field of clinical genetics

Overseas speaker

Prof. Shashikant Kulkarni
Molecular and Human Genetics
Baylor College of Medicine
Houston, TX, US

Sep course schedule (Total 12 hours)

Date		Time	Hours	Venue
2-Sep 2017	Sat	12:00-19:00	6	LKS301
3-Sep 2017	Sun	14:00-19:00	5	LKS303
e-learning (video for self-study)			1	-
LKS301: Room 301, 3/F, Li Ka Shing Institute of Health Science, PWH *LKS303: Room 303, 3/F, Li Ka Shing Institute of Health Science, PWH*				

Nov course schedule (Total 1 hour)

Date		Time	Hours	Venue
5-Nov 2017	Sun	09:00-10:00	1	ACS
ACS: Allan Chang Seminar Room, Block E, 1/F, PWH				

Accreditation

Pending **CME** points accredited by HKCOG
Pending **PEM** points accredited by Dept of O&G, CUHK

Tuition fee

Total **$5,000** (cheque payable to "The Chinese University of Hong Kong")

Graduation Requirement

Students must fulfill all of the following criteria to be granted a:

Certificate of Completion

- An overall attendance rate of 80% (11 out of 13 hours)
- Pass the assessment

Certificate of Attendance

An overall attendance rate of 80% but fails assessment

Course program

CNGT6005	Diagnostic utility of Exome sequencing
CNGT6005	Evidenced-based medicine: critically read and interpret scientific publications and award of policy implications
CNGT6005	Health services (information access) (video)
CNGT6005	Laboratories technology in Biochemical Genetics
CNGT6005	Laboratories technology: case study
CNGT6005	NGS for Epigenetic study(Methyl C-seq)
CNGT6005	NGS in transcriptional regulation study (ChIP-seq)
CNGT6005	NGS in transcriptomics study (RNA-seq)
CNGT6005	Non-coding region
CNGT6005	Non-invasive sequencing
CNGT6005	Patient care and Service coordination
CNGT6005	Single cell sequencing
CNGT6005	Whole genome sequencing

Registration and Enquiry

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