

# **Information Session**

## **OBGY6600 Genetic Counselling**

### **Part-time course in 2014-2016**

Dr Mary Tang

Departmental Coordinator

Department of Obstetrics and Gynaecology

The University of Hong Kong

# Master of Medical Sciences

Duration: 2 years part-time study

Programme consists of:

- Induction Course
- Core Modules
- Specialized Modules
- Dissertation

Application deadline for 2014-2016

- May 31, 2014



THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE  
香港大學李嘉誠醫學院

◀ Taught Postgraduate Programmes

# Master of Medical Sciences Programme (MMedSc)

## Introduction

The purpose of the Master of Medical Sciences (MMedSc) Degree is to provide structured training in the basic medical and clinical disciplines to enable postgraduates in Hong Kong and countries in the Asia Pacific Region to embark on specialist studies, practice or teaching for career and personal development.....

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**Curriculum**



A quotable qualification as approved by the Medical Council of Hong Kong:

**Master of Medical Sciences, The University of Hong Kong**

**M Med Sc (HK) 香港大學醫療科學碩士**

# Master of Medical Sciences

**Induction Course**

Core Modules

Specialized  
Modules

Dissertation

## **MMSC6001 Dissertation Writing (7.5 hours)**

### **Aims**

- To raise students' awareness of essential aspects of academic writing that contribute to the overall communicative success of a dissertation.
- To enable students to approach their writing with confidence and apply skills at key stages of their research process.

# Master of Medical Sciences

Induction Course

**Core Modules**

Specialized  
Modules

Dissertation

Candidates will be required to take **four** modules (20 hours each) from the following core modules. **At least one module** should be selected **from either of the two main sections, viz. Research Methods and Biological Systems.**

## **I. Research Methods**

- CMED6100 Introduction to Biostatistics
- CMED6200 Introduction to Epidemiology
- CMED6400 Evidence Based Practice: An Introduction to Clinical Epidemiology and Decision Analysis
- MBCH6100 Practical Bioinformatics
- PATH6100 Laboratory Methods and Instrumentation
- PATH6500 Practical Course in Laboratory Methods
- SURG6910 Laboratory Animal Handling and Surgical Techniques

## **II. Biological Systems**

- MBCH6200 Genes and Gene Functions
- MBCH6400 Working with Genes and Proteins
- MEDI6500 Cell Metabolism
- PATH6300 General Cytopathology
- PATH6600 Fundamentals of Common Human Diseases
- PHAR6100 Principles of Drug Action
- PHYO6100 Cell Biology
- PHYO6200 Concepts of Human Physiology

# Master of Medical Sciences

Induction Course

Core Modules

**Specialized  
Modules**

Dissertation

## **OBGY6600 Genetic Counselling**

### **Aims**

- To provide students from clinical and laboratory background with a foundation in the growing field of genetic counseling.
- To help students to determine when to suspect hereditary/genetic conditions and recognize the more common inherited conditions in different clinical settings.
- To provide the theoretical foundation to students for the practice of genetic counselling and the role of genetic services in the health care delivery system.

Module	Topic	Hours
Module 1	Understanding Risk Calculation and Principle of Genetic Counselling	20 Hours
Module 2	Communication in Genetic Counselling	20 Hours
Module 3	Clinical Application of Genetic, Cytogenetic & Biochemical Analyses in Genetic Diagnosis and Screening	20 Hours
Module 4	Genetics in Medicine	40 Hours
Module 5	Public Health Genomics	20 Hours

# Master of Medical Sciences

Induction Course

Core Modules

Specialized  
Modules

**Dissertation**

## **The dissertation shall comprise:**

- A project in the selected specialised field of study
- Research project of experimental or clinically-based work or a review of the existing literature on the subject of the project
- Presented in a form suitable for publication
- Minimum of 200 hours is required for the project.





OBGY6600: Specialised Module - Genetic Counselling  
Master of Medical Sciences (MMedSci)  
Department of Obstetrics and Gynaecology, LKS Faculty of Medicine

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### Introduction

This specialised field of study will focus on common and important genetic conditions in Hong Kong how to make appropriate and accurate genetic risk assessment and to conduct genetic counselling information and effective communication skills.

The module covers key topics under the categories of:

- (1) Understanding Risk Calculation and Principle of Genetic Counselling;
- (2) Communication in Genetic Counselling;
- (3) Clinical Application of Genetic, Cytogenetic & Biochemical Analyses in Genetic Diagnosis and S
- (4) Genetics in Medicine;
- (5) Public Health Genomics.

### Aim

This course is designed to provide participants from clinical and laboratory background with a foundation field of genetic counselling. It helps participants to determine when to suspect hereditary/genetic conditions and recognize the more common inherited conditions in different clinical settings. It provides the theoretical foundation for the practice of genetic counselling and the role of genetic services in the health care delivery system on the development of clinical skills to conduct interviews, to present relevant genetic information to families from diverse cultural backgrounds in an informed, compassionate manner and to obtain medical services they need.



OBGY6600: Specialised Module - Genetic Counselling  
Master of Medical Sciences (MMedSci)  
Department of Obstetrics and Gynaecology  
Li Ka Shing Faculty of Medicine

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OBGY6600  
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### Introduction

This specialised field of study will focus on common and important genetic conditions in Hong Kong. Students will learn how to make appropriate and accurate genetic risk assessment and to conduct genetic counselling with evidence-based information and effective communication skills.

### Aim

This course is designed to provide participants from clinical and laboratory background with a foundation in the growing field of genetic counselling. It helps participants to determine when to suspect hereditary/genetic conditions and recognize the more common inherited conditions in different clinical settings. It provides the theoretical foundation for the practice of genetic counselling and the role of genetic services in the health care delivery system. The focus will be on the development of clinical skills to conduct interviews, to present relevant genetic information to individuals and families from diverse cultural

**Desktop version: [www.obsgyn.hku.hk/mgc](http://www.obsgyn.hku.hk/mgc)**

**Mobile version:  
[www.obsgyn.hku.hk/m-mgc](http://www.obsgyn.hku.hk/m-mgc)**



# Module 1: Understanding Risk Calculation and Principle of Genetic Counselling

Coordinator: Dr Brian Chung

(Department of Paediatrics and Adolescent Medicine)

# Module 1: Understanding Risk Calculation and Principle of Genetic Counselling

- 20 hrs teaching
- Introduce the principles of genetic counseling
- Topics include mode of inheritance, counselling theory, interviewing techniques and administrative skills in genetic counselling
- Practical sessions to master the skills for counselling children and adults with genetic disorders

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**LI KA SHING FACULTY OF MEDICINE**

Master of Medical Sciences (MMedSc) 2011/2013: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

Module 1: Principle of genetic counselling

Total contact hours: 20

<b>Date</b>	<b>Time</b>	<b>No. of hour(s)</b>	<b>Topic</b>	<b>Teaching mode</b>	<b>Teacher</b>	<b>Venue</b>
16/12/2011 (Friday)	6:30 - 8:30 pm	2	Communication Theory	Lecture	Professor S Sarangi	Rm. 611, 6/F, Professorial Block, QMH
20/12/2011 (Tuesday)	6:30 - 8:30 pm	2	Family system and multicultural counselling	Lecture	Professor S Sarangi	
21/12/2011 (Wednesday)	6:30 - 8:30 pm	2	Ethics in clinical genetics	Lecture	Professor S Sarangi	
04/01/2012 (Wednesday)	6:30 - 8:30 pm	2	Human genetics & biology	Lecture	Dr. B Chung	Room 120A, 1/F, New Clinical Building, QMH
05/01/2012 (Thursday)	6:30 - 8:30 pm	2	Counselling theory	Lecture	Dr. T Tan	Rm. 611, 6/F, Professorial Block, QMH
12/01/2012 (Thursday)	6:30 - 8:30 pm	2	Counselling theory	Tutorial	Dr. T Tan	
10/01/2012 (Tuesday)	6:30 - 8:30 pm	2	Mode of Inheritance (Mendelian & non-Mendelian)	Lecture	Dr. B Chung	Room 120A, 1/F, New Clinical Building, QMH
17/01/2012 (Tuesday)	6:00 - 9:00 pm	3	Interactive workshop: Where to find information for your patients	Lecture + Practical	Dr. B Chung / Dr. SY Chan	Computer aided learning centre, Medical Library, Sassoon Road
19/01/2012 (Thursday)	6:30 - 8:30 pm	2	Bayesian calculation of risk in genetics	Lecture	Dr. T Tan	Rm. 611, 6/F, Professorial Block, QMH
09/02/2012 (Thursday)	6:30 - 7:30 pm	1	Personalised medicine and pharmacogenetics	Lecture	Prof B Cheung	

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Assessment method: 90 % in-course assessment / presentation  
10% attendance

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Master of Medical Sciences (MMedSc) 2012/2013: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

**Module 1: Principles of genetic counselling**

Total contact hours: 20

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue
11/1/2013 (Friday)	6:30 - 8:30 pm	2	Human genetics & biology	Lecture	Dr B Chung	Paed, HKU	Room 611, PB6, QMH
		2	Mode of Inheritance (Mendelian & non-Mendelian)	Video, self-study	Dr B Chung	Paed, HKU	
20/01/2013 (Sunday)	9:15 - 9:45 am 9:45 - 10:15 am 12:15-12:45 pm 3:15- 3:45 pm 4:10 - 5:10 pm	3	HKU O&G - CRDG Symposium: Update on Clinical Genetics ABC of Clinical Genetics An approach to identifying and managing reproductive risks Genetic counselling and ethical issues in assisted reproduction Personalized medicine Interesting case discussion	Lecture + Workshop	Dr B Chung, Dr D Amor, Prof P Sham, Dr A Kan	OG, CRDG, HKU	Lecture theatre 2, Cheung Kung Hai Conference Centre, William MW Mong Block, Sassoon Road
28/01/2013 (Monday)	6:30 - 8:30 pm	2	Counselling theory	Lecture	Ms L Plunkett	Mercy Hospital for Women	Room 611, PB6, QMH
5/2/2013 (Tuesday)	6:00 - 9:00 pm	3	Interactive workshop: Where to find information for your patients	Lecture + Practical	Dr B Chung / Dr SY Chan	Paed, HKU	Computer aided learning centre, Medical Library, Sassoon Road
		1	Risk assessment in genetic counselling	Video, self-study	Dr B Chung	Paed, HKU	
19/02/2013 (Tuesday)	6:30 - 8:30 pm	1 1	Bayesian calculation of risk in genetics Revision and reviewing assignment	Lecture	Dr B Chung	Paed, HKU	Room 611, PB6, QMH
14/3/2013 (Thursday)	6:30 - 8:30 pm	2	Communication theory	Lecture	Dr O Zayts	School of English, HKU	Room 611, PB6, QMH
22/3//2013 (Friday)	6:30 - 9:30 pm	3	Family system and multicultural counselling / Ethics in clinical genetics	Lecture	Dr O Zayts	School of English, HKU	Room 611, PB6, QMH

Assessment method: 90 % in-course assessment / presentation  
10% attendance

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LI KA SHING FACULTY OF MEDICINE

Master of Medical Sciences (MMedSc) 2013/2014: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

**Module 1: Principles of genetic counselling**

Total contact hours: 20

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue
7/1/2014 (Tuesday)	6:30 - 8:30 pm	2	Human genetics & biology	Lecture	Dr B Chung	Paed, HKU	Rm 120, NCB, QMH
14/01/2014 (Tuesday)	6:30 - 8:30 pm	2	Mode of Inheritance (Mendelian & non-Mendelian)	Video, discussion, self-study	Dr B Chung	Paed, HKU	Rm 120, NCB, QMH
19/01/2014 (Sunday)	9:00am - 5:00pm	6	HKU O&G-Paed-CRDG Symposium on Clinical Genetics	Lecture + Workshop	Drs J Chiang (USA), Dr A Tsai (USA) and local faculty	OG, Paed, CRDG	Lecture 2, Cheung Kung Hai Conference Centre, William MW Mong Block, Faculty of Medicine, HKU
23/1/2014 (Thursday)	6:30 - 8:30 pm	2	Genetic Counseling: New Challenges in the Genomics Era	Lecture	Dr Christine Patch, PhD RN (UK)		A Gd Seminar Room, G/F, Block A, QEH
11/2/2014 (Tuesday)	6:00 - 8:00 pm	2	Interactive workshop: Where to find information for your patients	Workshop + Practical	Ms Yoyo Chu / Dr SY Chan	Paed, HKU	Computer aided learning centre, Medical Library, Sassoon Road
18/2/2014 (Tuesday)	6:30 - 8:30 pm	2	Risk assessment in genetic counselling, case discussion	Video, self-study, discussion	Dr B Chung, Ms Yoyo Chu	Paed, HKU	Rm 120, NCB, QMH
25/2/2014 (Tuesday)	6:30 - 8:30 pm	2	Bayesian calculation of risk in genetics	Lecture	Dr T Tan (Australia)	Paed, HKU	Rm 120, NCB, QMH
26/2/2014 (Wednesday)	6:30 - 8:30 pm	2	Practice and theory of genetic counselling	Lecture	Dr T Tan (Australia)	Paed, HKU	Rm 120, NCB, QMH

Assessment method: 90 % in-course assessment / presentation  
10% attendance

# Module 2: Communication in Genetic Counselling

Coordinators: Dr CP Lee  
(Department of Obstetrics & Gynaecology)  
& Dr Olga Zayts  
(School of English)

# Module 2: Communication in Genetic Counselling

- 20 hours of teaching / interactive workshop
- Aim to equip students with communication skills specific to the setting of genetic counselling
- Teaching covers history taking and pedigree construction, risks communication, other modes of communication including written or printed materials, computer assisted aids, as well as analysis of videotapes of transcripts of consultations.
- Workshops with active student participation are used for most of the teaching in this module



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Master of Medical Sciences (MMedSc) 2011/2013: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

Module 2: Risk calculation and effective communication in genetic counselling

Total contact hours: 20

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Venue
22/3/2012 (Thursday)	6:30 - 8:30 pm	2	History taking and pedigree construction	Interactive lecture	Dr T Tan	Rm. 611, 6/F, Professorial Block, QMH
29/3/2012 (Thursday)	6:30 - 8:30 pm	2	Psychosocial support	Lecture	Ms J Percival	
10/4/2012 (Thursday)	6:30 - 8:30 pm	2	Genetic counselling in special situations	Workshop	Dr B Chung / Dr A Kan	
14/4/2012 (Saturday)	9:00–12:00 pm	3	Communication of risks and uncertainty	Workshop	Dr O Zayts	
19/4/2012 (Thursday)	6:30 - 8:30 pm	2	Other modes of communication including written or printed materials, computer assisted aids	Workshop	Dr O Zayts	
23/5/2012 (Thursday)	6:00-9:00 pm	3	Directiveness, non-directiveness and decision making	Workshop	Dr O Zayts	
14/06/2013 (Friday)	6:00-9:00 pm	3	Discussion on the prenatal consultations at TYH PDC	Workshop	Dr. CP Lee / Dr. O Zayts	
21/06/2013 (Friday)	6:00 - 9:00 pm	3	Discussion on postnatal consultations at Genetics clinic of QMH	Workshop	Dr B Chung / Dr O Zayts	

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10% attendance

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Master of Medical Sciences (MMedSc) 2012/2014: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

Module 2: Risk calculation and effective communication in genetic counselling

Total contact hours: 20

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Venue
17/4/2013 (Wednesday)	6:30 - 8:30 pm	2	History taking and pedigree construction	Interactive lecture	Dr Kan / Yoyo	Rm. 611, 6/F, Professorial Block, QMH
23/4/2013 (Tuesday)	6:30 - 8:30 pm	2	Genetic counselling in special situations	Workshop	Dr B Chung / Dr A Kan	
30/4/2013 (Tuesday)	6:30 - 9:30 pm	3	Communication of risks and uncertainty	Workshop	Dr O Zayts / Dr CP Lee	
9/5/2013 (Thursday)	6:30 - 8:30 pm	2	Other modes of communication including written or printed materials, computer assisted aids	Workshop	Dr O Zayts / Dr CP Lee	
16/5/2013 (Thursday)	6:00 - 9:00 pm	3	Directiveness, non-directiveness and decision making	Workshop	Dr O Zayts / Dr CP Lee	
18/4/2013 (Thursday)	6:30 - 8:30 pm	2	Psychosocial support	Lecture	Prof Tiwari	
2014 (To be confirmed)	6:00 - 9:00 pm	6	Analysis of videotaped consultation	One to one coaching with taping of one consultation during clinic attachment + workshop	Dr CP Lee / Dr B Chung Dr O Zayts	

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Assessment method: 90 % in-course assessment / presentation  
10% attendance

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Master of Medical Sciences (MMedSc) 2013/2015: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

Module 2: Risk calculation and effective communication in genetic counselling

Total contact hours: 20

<b>Date</b>	<b>Time</b>	<b>No. of hour(s)</b>	<b>Topic</b>	<b>Teaching mode</b>	<b>Teacher</b>	<b>Venue</b>
11/3/2014 (Tuesday)	6:30 - 8:30 pm	2	History taking and pedigree construction	Interactive lecture	Ms Yoyo Chu/Dr A Kan	Rm. 611, 6/F, Professorial Block, QMH
13/3/2014 (Thursday)	6:30 - 8:30 pm	2	Genetic counselling in special situations	Workshop	Dr B Chung / Dr A Kan	
3/4/2014 (Thursday)	6:30 - 9:30 pm	3	Communication of risks and uncertainty	Workshop	Dr O Zayts / Dr CP Lee	
17/4/2014 (Thursday)	6:30 - 8:30 pm	2	Other modes of communication including written or printed materials, computer assisted aids	Workshop	Dr O Zayts / Dr CP Lee	
5/5/2014 (Monday)	6:30 - 9:30 pm	3	Directiveness, non-directiveness and decision making	Workshop	Dr O Zayts / Dr CP Lee	
15/5/2014 (Thursday)	6:30 - 8:30 pm	2	Psychosocial support	Lecture	Prof A Tiwari	
21/5/2014 (Thursday)	6:30 - 9:30 pm	3	Analysis of videotapes or transcripts of consultation	Workshop	Dr CP Lee/Dr O Zayts	
28/5/2014 (Thursday)	6:30 - 9:30 pm	3	Analysis of videotapes or transcripts of consultation	workshop	Dr B Chung/ Dr O Zayts	

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Assessment method: 90 % in-course assessment / presentation  
10% attendance

Module 3:  
Clinical Application of Genetic,  
Cytogenetic & Biochemical Analyses  
in Genetic Diagnosis and Screening

Coordinator: Prof Eric CW Lam  
(Department of Pathology)

# Module 3

- 20 hrs teaching
- Introduces the general principles of cytogenetics, biochemical genetics and molecular genetics in genetic testing, the various laboratory techniques for identification of disease-causing mutations
- Students will learn how to read a laboratory report

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Master of Medical Sciences (MMedSc) 2011/2013: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

Module 3: Clinical application of genetic, cytogenetic & biochemical analyses in genetic diagnosis and screening

Total contact hours: 20

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue
16/07/2012 (Monday)	6:30 - 7:30 pm	1	Cytogenetics: Traditional cytogenetics	Lecture	Dr. A Kan	OG, TYH	Prenatal Diagnostic Laboratory, Tsan Yuk Hospital
17/07/2012 (Tuesday)	6:30 - 7:30 pm	1	Cytogenetics: Molecular cytogenetics / aCGH	Lecture	Dr. E Lau	OG, TYH	
16/07/2012 (Monday)	7:30 - 8:00 pm	0.5	Prenatal Diagnostic Laboratory visit	Lab Visit	Dr. E Lau / Dr. K Chan	OG, TYH	
17/07/2012 (Tuesday)	7:30 - 8:00 pm	0.5	Prenatal Diagnostic Laboratory visit	Lab Visit	Dr. E Lau / Dr. K Chan	OG, TYH	
07/07/2012 (Saturday)	9:00 - 10:00 am	1	Molecular genetics: SNP array	Lecture	ProfCW Lam	Path. HKU	Conference Room, 6/F, Professorial Block, QMH
	10:00 - 11:00 am	1	Molecular genetics: Cancer genetics	Lecture	ProfSY Leung	Path. HKU	
	11:00 - 12:00 noon	1	Molecular genetics: Cancer genetics	Lecture	ProfUS Khoo	Path. HKU	
	12-1pm	1	QMH Pathology Laboratory visit	Lab Visit	Dr Morris Tai	Path, QMH	QMH
	2:00 - 3:00 pm	1	Biochemical genetics	Lecture	Dr Chloe Mak	Path, PMH	Conference Room, 6/F, Professorial Block, QMH
	3:00 - 4:00 pm	1		Lecture	ProfCW Lam	Path, HKU	
	4:30 - 5:30 pm	1	Next-generation sequencing	Lecture	Dr Carol Siu	Path, PMH and HKU	Conference Room, 6/F, Professorial Block, QMH
	5:30 - 6:30 pm	1		Lecture	Dr Wanling Yang	Paed, HKU	
14/07/2012 (Saturday)			Practicum: Interpretation of genetic reports				Rm 1410, Conference Room, Block G, PMH
	9:00 - 10:00 am	1	Metabolic 1	Tutorial	ProfCW Lam	Path, HKU	
	10:00 - 11:00 am	1	Metabolic 2	Tutorial	Dr Chloe Mak	Path, PMH	
	11:00 - 12:00 noon	1	Pharmacogenetics	Tutorial	Dr WT Poon	Path, PMH	
	1:00 - 2:00 pm	1	Endocrine	Tutorial	Dr Carol Siu	Path, PMH	
	2:00 - 3:00 pm	1	Postmortem and ELSI	Tutorial	Dr Hencher Lee	Path, PMH	
	3:00 - 4:00 pm	1	Neurogenetics	Tutorial	Dr Doris Ching	Path, PMH	
	4:00 - 5:00 pm	1	Bone	Tutorial	Dr Carol Siu	Path, PMH	
	5:00 - 6:00 pm	1	PMH Genetic Laboratory visit	Lab Visit	Dr Carol Siu	Path, PMH	
09/07/2012 (Monday)	5:00 - 6:00 pm	1	CGS Laboratory visit	Lab Visit	Dr Stephan Lam/ Dr Ivan L	CGS	CGS, Chueng Sha Wan Jockey Club Clinic

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Reference material(s):

[Thompson & Thompson Genetics in Medicine: With STUDENT CONSULT Online Access, 7e by Robert Nussbaum MD, Roderick R. McInnes MD PhD FRS\(C\) and Huntington F. Willard PhD \(Jun 8, 2007\)](#)

Assessment method: 90 % in-course assessment / presentation  
10% attendance

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Master of Medical Sciences (MMedSc) 2012/2013

Specialised field of study: OBGY6600 Genetic Counselling

Module 3: Clinical application of genetic, cytogenetic & biochemical analyses in genetic diagnosis and screening

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue
10/08/2013 (Saturday)	A. Molecular genetics						QMH  (Room 611, 6/F,  Professorial block, QMH)
	8:45 - 9:00 am		Briefing		Prof. CW Lam		
	9:00 - 10:00 am	1	Molecular genetics: Genetics of breast cancer	Lecture	Prof. US Khoo	Path. HKU	
	10:00 - 11:00 am	1	Biochemical diagnosis of acute IEM patients	Lecture	Prof. CW Lam	Path. HKU	
	11:00 - 12:00 noon	1	SNP arrays in clinical practice	Lecture	Prof. CW Lam	Path. HKU	
	12:00 - 1:00 pm	1	QMH laboratory visit	Lab visit	Dr. Morris Tai / Dr. T Wan	Path, QMH	
	B. Biochemical genetics						
	2:00 - 3:00 pm	1	Molecular genetics: Genetics of colon cancer	Lecture	Prof. SY Leung	Path. HKU	
	3:00 - 4:00 pm	1	Extended newborn screening for metabolic disease	Lecture	Dr. Chloe Mak	Path, PMH	
	C. Genetics in haematology						
	4:15 - 5:45 pm	1.5	Genetics of hematological diseases	Lecture	Dr. Jason So	Path, HKU	
31/08/2013 (Saturday)	D. Practicum: Interpretation of genetic reports						PMH  (Conference Room 615, block G, PMH)
	9:00 - 10:00 am	1	Inherited metabolic disease	Tutorial	Prof. CW Lam	Path, HKU	
	10:15 - 11:15 am	1	Bioinformatics for mutation reporting	Lecture	Prof. CW Lam	Path, HKU	
	11:30 - 12:00 noon	0.5	Endocrine	Tutorial	Prof. CW Lam	Path, HKU	
	12:00 - 12:30 pm	0.5	Neuromuscular disease	Tutorial	Dr. Chloe Mak	Path, PMH	
	1:30 - 2:00 pm	0.5	Neurogenetics	Tutorial	Dr. Doris Ching	Path, PMH	
	2:00 - 2:30 pm	0.5	Bone	Tutorial	Dr. Sammy Chen	Path, PMH	
	2:30 - 3:30 pm	1	PMH genetic laboratory visit	Lab visit	Dr. Sammy Chen	Path, PMH	
07/09/2013 (Saturday)	9:00 - 10:00 am	1	Pharmacogenetics	Tutorial	Dr. WT Poon	Path, PYNEH	TYH  (Lecture Hall, 6/F)
	E. Cytogenetics						
	10:00 - 11:00 am	1	Constitutional cytogenetics	Lecture	Dr. Anita Kan	O&G, TYH	
	11:00 - 12:00 noon	1	Molecular cytogenetics	Lecture	Dr. Elizabeth Lau	O&G, TYH	
	12:00 - 1:00 pm	1	TYH laboratory visit	Lab visit	Mr WK Tam	O&G, TYH	
	1:00 - 1:30 pm	0.5	Practicum: Interpretation of prenatal cytogenetic reports	Tutorial	Dr. Anita Kan / Mr WK Tam	O&G, TYH	
	F. Next generation sequencing						
	2:30 - 3:00 pm	0.5	Next-generation sequencing (hardware and software)	Lecture	Dr. Kelvin Chan	O&G, TYH	
	3:00 - 4:00 pm	1	Next-generation sequencing – clinical application	Lecture	Dr Anita Kan / Prof CW Lam	O&G, TYH / Path, HKU	
	4:15 - 4:45 pm	0.5	Practicum: Interpretation of reports	Tutorial	Dr Kelvin Chan / Prof CW Lam	O&G, TYH / Path, HKU	
30/08/2013 (Friday)	5:00 - 6:00 pm	1	Clinical Genetic Service - laboratory visit	Lab visit	Stephen Lam / Dr. Ivan	CGS	CGS, Chueng Sha Wan Jockey Club Clinic

Assessment:

90 % in-course assessment / presentation

10% attendance



# Module 4: Genetics in Medicine

Coordinators: Dr Mary Tang  
(Department of Obstetrics and Gynaecology)  
& Dr Brian Chung  
(Department of Paediatrics and Adolescent Medicine)

# Module 4: Genetics in Medicine

- 40 hrs in teaching
- Provide the knowledge of normal development in pregnancy and childhood
- Plan to cover clinical aspects of counselling, from preimplantation to paediatric stages with lectures, tutorials/web-based teaching, attachment to relevant counselling clinics, and videotaping of one counselling event for reflective teaching

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Master of Medical Sciences (MMedSc) 2011/2013: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

Module 4: Genetics in Medicine

Total contact hours: 40

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue
01/11/2012 (Thursday)	6:30 - 7:30 pm	1	Embryology & Assisted Reproductive Technologies	Lecture	Prof. W Yeung	OG	6/F, Professorial Block, QMH
08/11/2012 (Friday)	6:30 - 7:30 pm	1	Pregnancy	Lecture	Dr. P W Hui	OG	
08/11/2012 (Friday)	7:30 - 8:30 pm	1	Prenatal screening & prenatal diagnosis	Lecture	Dr. A Kan	OG	
14/11/2012 (Wednesday)	6:30 - 7:30 pm	1	Preimplantation genetic diagnosis	Lecture	Dr. E Ng	OG	
19/11/2012 (Monday)	6:30 - 8:30 pm	2	Fetal ultrasound (structural anomalies & soft markers)	Lecture	Dr. C P Lee/Dr. C Ong	OG	
29/11/2012 (Thursday)	6:30 - 7:30 pm	1	Child Growth & Development	Lecture	Dr. P Ip	Paed, HKU	Seminar Room (Rm 120), Dept of Paed & Adol Med, New Clinical Building, QMH
06/12/2012 (Thursday)	6:30 - 8:30 pm	2	Growth disorders (endocrine disorders & skeletal dysplasia)	Lecture	DR. Y L Tung	Paed, HKU	
13/12/2012 (Thursday)	6:30 - 8:30 pm	2	Developmental delay/intellectual disability/Neurogenetics	Lecture	Dr. C W Fung	Paed, HKU	
20/12/2012 (Thursday)	6:30 - 7:30 pm	1	Inborn errors of metabolism & newborn screening	Lecture	Dr. C W Fung	Paed, HKU	
20/12/2012 (Thursday)	7:30 - 8:30 pm	1			Dr. Y L Tung		
03/01/2013 (Thursday)	6:30 - 7:30 pm	1	Primary Immunodeficiency	Lecture	Dr. P Lee	Paed, HKU	
03/01/2013 (Thursday)	7:30 - 8:30 pm	1	Termination of pregnancy and fetal pathology (including assessment of stillborn)	Lecture	Dr. P W Hui	OG	
10/01/2013 (Thursday)	6:30 - 8:30 pm	2	Inherited cardiovascular conditions	Lecture	Dr. P C Chow	Paed, HKU	
17/01/2013 (Thursday)	6:30 - 8:30 pm	2	Thalassaemias and inherited hematological disorders	Lecture	Prof C F Chan	Paed, HKU	
24/01/2013 (Thursday)	5:00 - 6:00 pm	1	Gene Therapy for Primary/Immunodeficiencies: From Bench to Clinic	Lecture	Prof Thrasher	Paed, HKU	Seminar Room 3, G/F, Laboratory Block, Faculty of Medicine Building, 21 Sassoon Road, Pokfulam
	6:30 - 7:30 pm	1	Dysmorphology & Teratology	Lecture	Dr. B Chung	Paed, HKU	Seminar Room (Rm 120), Dept of Paed & Adol Med, New Clinical Building, QMH
	7:30 - 8:30 pm	1	Cancer genetics				
31/01/2013 (Thursday)	6:30 - 8:30 pm	2	Case-based discussion – Prenatal diagnosis	Tutorials	Dr. A Kan	OG	Rm. 611, 6/F Professorial Block, QMH
		2	Case-based discussion – common genetic conditions in Hong Kong	Web-based teaching	Dr. B Chung	Paed, HKU	-
Dec 2012 - Feb 2013		14	Clinical attachment at prenatal, preimplantation, paediatric, cancer genetics and CGS clinics	Clinic attachment	Dr B Chung, Dr A Kan, Dr CP Lee, Dr V Lee, Dr S Lam, Prof SY Leung	Paed, O&G, CGS, Path	QMH, TYH, CGS

- Clinic attachment, from Dec 2015 to Feb 2016
- Planner to fill in available sessions
- 14 hours of clinical attachment, 2 hours for each half-day session, with booking of 4 patients, shall inform students on the patients to see before the clinics

- QMH Clinical Genetics Clinic (Dept of P&AM)
- DH Clinical Genetics Clinic (DH)
- TYH Prenatal Diagnostic and Counselling Clinic (Dept of O&G)
- QMH Preimplantation genetic diagnosis clinic (Dept of O&G)
- QMH familial cancer clinic (Dept of Pathology)
- ... and other clinics (TBC)

- Students would have an option to choose which clinics to attend. Suggest students attend a minimum of 2 hours at QMH Clinical Genetics clinic and 2 hours at TYH PDC clinic, one of which will be videotaped with student doing the counselling

# Module 5: Public Health Genomics

Coordinator: Dr Dennis Ip  
(School of Public Health)



# Module 5: Public Health Genomics

- 20 hrs of teaching
- Focuses on the public health implications of advances in genetic and molecular science for preventing diseases and improving the health of the population
- Centred on an understanding how genetic and environmental factors work together in determining susceptibility to common diseases in individuals and populations.
- Include an understanding of basic public health principles and the implications of genetic knowledge and developments for public health service provision, and the ethical, legal, cultural and policy issues involved in applying genomics to public health.

**THE UNIVERSITY OF HONG KONG**  
**LI KA SHING FACULTY OF MEDICINE**

Master of Medical Sciences (MMedSc) 2011/2013: Specialised Modules

Specialised field of study: OBGY6600 Genetic Counselling

Module 5: Public Health Genomics

Total contact hours: 20

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue
18/02/2013 (Monday)	6:30 - 8:30 pm	2	An overview of Public Health Genomics	Lecture	Dr. D Ip	CM, HKU	SR2
21/02/2013 (Thursday)	6:30 - 8:30 pm	2	Statistical & epidemiological techniques for study of genetics	Lecture	Dr. S Cherny	CM, HKU	SR4
28/02/2013 (Thursday)	6:30 - 8:30 pm	2	Genetic testing – concepts and development	Lecture	Dr. D Ip	CM, HKU	LT1
07/03/2013 (Thursday)	6:30 - 8:30 pm	2	Genetic testing –problems and control	Lecture	Dr. D Ip	CM, HKU	LT1
14/03/2013 (Thursday)	6:30 - 8:30 pm	2	Practice of Cancer genetics	Lecture	Dr. A Kwong	CM, HKU	MTC
21/03/2013 (Thursday)	6:30 - 8:30 pm	2	Genetics and health services in HK	Lecture	Dr. S Lam	CM, HKU	CSL
11/04/2013 (Thursday)	6:30 - 8:30 pm	2	Law, Ethics and Public Policy: Some Lessons from Genomic Medicine	Lecture	Dr. R Zimmern	CM, HKU	MTC
18/04/2013 (Thursday)	6:30 - 8:30 pm	2	Ethical, legal and policy implications of genetic	Lecture	Dr. D Ip	CM, HKU	MTC
25/04/2013 (Thursday)	6:30 - 8:30 pm	2	Psycho-social aspect of genetic screening	Lecture	Dr. D Ip	CM, HKU	MTC
02/05/2013 (Thursday)	6:30 - 8:30 pm	2	Presentation of group projects	Lecture	Dr. D Ip	CM, HKU	MTC

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Venues: SR2 - Seminar Room 2, Laboratory Block

SR4 - Seminar Room 4, Laboratory Block

MTC - Mrs Chen Yang Foo Oi Telemedicine Centre, 2/F, William MW Mong Block

LT1 - Lecture Theatre 1, 1/F, William MW Mong Block

CSL - Clinical Skill Lab, 2/F, William MW Mong Block

(All venues are located in Faculty of Medicine Building, 21 Sassoon Road, Pokfulam, Hong Kong)

Assessment method: 90 % in-course assessment / presentation  
10% attendance

# Assessment for Core Modules

- In-course assessments (contribute to not more than 40%) by course tutors throughout the study period
- 2-hour written final examinations held at the end of each course i.e. normally in February and May each year
- Provisional pass mark of each core module: 40%
- Attendance: at least 80% of teaching sessions

# Assessment for Specialized Modules

- Average marks of the 6 Specialized Modules in the Specialized Field of Study
- Provisional pass mark: 40%
- Attendance: at least 80% of teaching sessions

# Dissertation

- Dissertation title submission, at least 3 months before the submission of the Dissertation, i.e. by May 31, 2016
- Dissertation submission, not later than Aug 31, 2016
- One internal examiner and one external examiner
- Passing mark of 50%

# Tentative timeline (Dates TBC)

OBGY6600 Module	Period	Hours
1	Dec 2014 – Feb 2015	20
2	Mar – May 2015	20
3	Jun – Jul 2015	20
4	Nov 2015 – Mar 2016	40
5	Feb – May 2016	20

- Dissertation title: 31 May 2016
- Dissertation: 31 Aug 2016

# Fees (Subject to approval)

- The composition fee for Master of Medical Sciences 2014/15 is \$115,000 for full-time candidates and \$57,500 p.a. for part-time candidates.
- Those who do not wish to pursue the MMedSc degree may take individual module at a rate of \$5,750/Core Module or 1 unit of Specialised Module.



## Enquiries:

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