THE UNIVERSITY OF HONG KONG
LI KA SHING FACULTY OF MEDICINE

Master of Molecular and Diagnostic Pathology
Molecular Pathology, Course 5

MMDP7019 Applications of Emerging Technologies for Genetic Testing
Course Coordinators: Professor CW Lam & Professor Ui-Soon Khoo

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue
10/08/2024 (Saturday)	**Session 1**						QMH (T06-035)
	8:50 – 9:00 am		Briefing by the course coordinator		Prof CW Lam	Path, HKU	
	9:00 – 10:00 am	1	Clinical Bioinformatics for complex disease		Prof Clara Tang	Surgery, HKU	
	10:30 - 12:00 pm	1.5	CRISPR technology for treatment and diagnosis		Dr Ken Ma	Path, HKU	
	Lunch Break						
	13:00 - 14:30 pm	1.5	Bioinformatics for mutation reporting in chemical pathology		Dr Felix Wong	Path, QMH	
	14:30 - 16:00 pm	1.5	Next-generation Sequencing – clinical applications	Tutorial	Dr Felix Wong	Path, QMH	
17/08/2024 (Saturday)	**Session 2**						QMH (T06-035)
	9:00 – 10:30 am	1.5	Clinical application of NGS for solid tumors		Dr Anthony Lo	Path, QMH	
	10:30 - 12:00 am	1.5	Clinical bioinformatics for leukaemia genomics		Dr Alvin IP	Path, QMH	
	12:00 - 12:30 pm	0.5	Third-generation sequencing: clinical application and bioinformatic considerations.		Dr Alvin IP	Path, QMH	
	Lunch Break						
	13:30 - 15:00 pm	1.5	Newborn screening for Spinal Muscular Atrophy and Severe combined Immunodeficiency		Dr Chloe Mak	Path, HKCH	
	15:00 - 16:00 pm	1	Newborn screening for inborn errors of metabolism		Dr Chloe Mak	Path, HKCH	
	16:00 - 16:30 pm	0.5	Inherited cardiomyopathy and arrhythmia disorders	Tutorial	Dr Chloe Mak	Path, HKCH	
24/08/2024 (Saturday)	**Session 3**						QMH (T06-035)
	9:00 – 10:30 am	1.5	Mass spectrometry (protein/metabolite) for drug discovery		Prof Clive Chung	Path, HKU	
	10:30 - 12:00 pm	1.5	Polygenic risk scores		Prof Pak Chung Sham	HKU	
Feb 2024 lab visit week		2	Visit to Center for Panormic Science				
Feb 2024 lab visit week		2	Visit to Human Genome Project				
28/09/2024 (Saturday)	**Examination**						
	10:00 - 10:00 pm		Online MCQ Quiz				