

The University of Hong Kong
Department of Pathology

Postgraduate Diploma/Certificate in Molecular and Diagnostic Pathology
Molecular Pathology, Module 1

PATH6001 Principles and Techniques of Molecular Pathology

Module Coordinators: Prof. Gopesh Srivastava & Prof. US Khoo

Venue: Room 004, University Pathology Building, Queen Mary Hospital
Room 331, University Pathology Building, Queen Mary Hospital

Saturday, 30th October, 2010		Venue: Room 004
Time	Topics	Lecturers
9.30 am - 10.30 am	Introduction to molecular pathology and genetics	Prof. Gopesh Srivastava
10.30 am - 12.00 pm	Principles of electrophoresis and immunoblotting	Dr. Judy Yam
Break		
1.00 pm - 2.30 pm	Principles of automated DNA sequencing and various methods of genotyping and mutation analysis	Dr. Chris Chan
2.30 pm - 4.00 pm	Principles and applications of Quantitative-PCR	Dr. Chris Chan

Sunday, 31st October, 2010		Venue: Room 004
Time	Topics	Lecturers
9.30 am - 11.00 am	In-situ hybridization techniques (ISH, FISH, CISH, SISH)	Dr. LP Chung
11.00 am - 12.30 pm	Basic concepts in conventional cytogenetics and molecular cytogenetics	Dr. Thomas Wan
Break		
1.30 pm - 3.00 pm	Principles and applications of flow cytometry	Dr. Ricky Ip
3.00 pm - 4.30 pm	Emerging technologies (epigenetics, gene expression profiling, stem cells)	Dr. Ray Ng
Break		
4.45 pm - 5.30 pm	Laboratory management issues in molecular testing - Laboratory Organization	Prof. Annie Cheung

Saturday, 6th November, 2010		
Time	Topics	
9:00 am - 10:00 am	Human identity by DNA typing (<i>Room 004</i>)	Dr. Philip Beh
Break		
10.15 am - 12.30 pm	Practical Session - Part I (<i>Room 331</i>)	
Break		
1.30 pm - 3.45 pm	Practical Session - Part II (<i>Room 331</i>)	
3.45 pm - 4.30 pm	- Laboratory management issues in molecular testing - Laboratory Safety - Concluding Remarks (<i>Room 004</i>)	Prof. Gopesh Srivastava