

TOPICS FOR PRESENTATION/ASSIGNMENTS FOR MPATH STUDENTS DURING RMO (5th April – 31st May 2020)

Name of lecturers	Weekly Cytogenetics/Molecular Presentation (30 min)	CME (1-hour)	Written assignment (1 week)
Prof. Zilfalil Alwi		Over-the-counter genetic testing	Overview of CRISPR
Prof. Ravindran Ankathil	BCR-ABL mutation analysis in CML management	1) Epigenetics in cancer 2) Cell cycle regulation and checkpoints	<ul style="list-style-type: none"> • Molecular biomarkers in Oncology • Mitochondrial DNA and mitochondrial inheritance
Assoc. Prof. Dr. Sarina Sulong	Introduction to ASDG	Array CGH and its Application in clinical diagnostic	<ul style="list-style-type: none"> • Feasibility of genetic testing for breast cancer and its status in Malaysia • Describe about bioinformatics and its relevant applications in medical and health sciences
Dr. Aziati Azwari Annuar	Introduction to qualitative RT-PCR	Genetic testing of colon cancer	<ul style="list-style-type: none"> • New insights into the genetic basis of infertility • Prenatal genetic screening and testing
Dr. Ahmad Aizat Abdul Aziz	Droplet digital PCR vs qPCR	Tumour suppressor gene vs oncogene in human cancer	<ul style="list-style-type: none"> • Liquid biopsy in cancer diagnosis • Hallmarks of cancer
Dr. Marahaini Musa	Cytogenetics of lung cancer	Current proteomic analysis for cancer biomarker detection	<ul style="list-style-type: none"> • Discuss the phenomenon of quiescence and senescence, and their relations to cancer