

Understanding Epigenetic Status: DNA Methylation and Application

26TH -27TH August 2019 | iNFORMM USM Health Campus, Kelantan

Course Description

The study of DNA and RNA has evolved from the simplicity of the central dogma of molecular biology. With the continuous research and advancement of detection technologies, research has shown that epigenetic have direct implications in disease progression and development. In this seminar, we will discuss how epigenetic especially methylation have been studied as a biomarker for diseases.

Genome-wide methylation data are of increasing interest for identifying genomic regions important in cancers and other diseases. After genome-wide screening, it is important to analyse additional CpG sites within the identified target sequences in greater detail. This is particularly important when researching diseases involving heterogeneous CpG methylation within a CpG island. Various methodologies are available but a comprehensive method for analysing methylation around an identified target with higher resolution and sensitivity is essential.

Speaker and Trainer

Dr. Chiam Chun Wei

Application Specialist at QIAGEN
Biotechnology Malaysia Sdn.
Bhd.

Registration Dateline
20th AUGUST 2019

Fees
Full Course | RM 650.00

Seat Limit
15 participants

Contacts

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This workshop is organised by the Institute for Research in Molecular Medicine (iNFORMM), Universiti Sains Malaysia in the collaboration with QIAGEN Biotechnology Malaysia Sdn Bhd.



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Tentative Programme of the Workshop

Time	Day 1 (26 TH August 2019, Monday)
0830-0900	Registration
0900-0915	Lecture 1: Recent Trend in Cancer and Disease Biomarkers
0915-1000	Lecture 2: Solutions for epigenetic study
1000-1030	Tea break and Photo session
1030-1100	Lecture 3: How to use pyrosequencing to study methylation
1100-1120	Lecture 4: User Sharing Experience
1120-1130	Q & A session
1130-1330	Hands-on: DNA Extraction Part I
1330-1430	Lunch
1430-1500	Hands-on: DNA QC
1500-1630	Hands-on: Bisulfite conversion & QC
1630-1700	Tea break
1700-1730	Q & A Session

Time	Day 2 (27 TH August 2019, Tuesday)
0900-1000	Hands-on: Pyrosequencing sample prep, wash
1000-1015	Hands-on: Machine handling
1015-1045	Tea break
1045-1130	Lecture 5: Result interpretation
1130-1230	Q & A session & Closing remarks
1230-1330	Lunch

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