SELEX TECHNOLOGY

APTAMERS SELECTION WORKSHOP

(SERIES IV)

DATE : 27 - 29 JUNE 2022 (MONDAY - WEDNESDAY)
VENUE : INFORMM HEALTH CAMPUS, KELANTAN

REGISTER BEFORE :
23 JUNE 2022

FEES :
RM 1,500.00 ONLY

CLICK/SCAN TO REGISTER

COME AND JOIN US!

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IN COLLABORATION WITH :

Metrohm IMPACO

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TENTATIVE PROGRAMME

Day	Time	Tentative Programme
27 June 2022 (Monday)		
	08.30 – 09.00 am	Registration
	09.00 – 09.10 am	Opening Remarks
	09.10 – 10.10 am	Lecture 1 : An Overview of SELEX Technology Dr. Khairul Mohd Fadzli Mustaffa (INFORMM, USM)
	10.10 – 10.30 am	Tech Talk 1 : IMPACO PLT
	10.30 – 11.00 am	Tea break & Photo Session
	11.00 – 12.00 pm	Lecture 2 : Aptamer Technology Dr. Khairul Mohd Fadzli Mustaffa (INFORMM, USM)
	12.00 – 12.40 pm	Lecture 3 : In-silico SELEX Dr. Mohamad Zulkeflee Sabri (UniKL, MICET Melaka)
	12.40 – 01.00 pm	Tech Talk 2 : Methrohm, Malaysia
	01.00 – 02.00 pm	Lunch Break
	02.00 – 05.30 pm	Lab 1 : Introduction of SELEX experiment • SELEX experiment using NHS-activated agarose resin & demonstration on preparation of selection matrix
28 June 2022 (Tuesday)	08.30 – 09.00 am	Breakfast
	09.00 – 01.00 pm	Lab 2 : Production of ssDNA (SELEX cycle) • Amplification of bound aptamer • Generation of ssDNA
	01.00 – 2.00 pm	Lunch
	02.00 – 05.00 pm	Lab 3 : Check on aptamer binding using Fluorescence-labelled aptamer • Post- SELEX experiment using selected SELEX cycle of labelled aptamer pool (NHS-activated agarose resin) • Measurement of bound aptamer using Fluorescence Spectrophotometer
29 June 2022 (Wednesday)	08.30 – 09.00 am	Breakfast
	09.00 – 01.00 pm	Lab 4 : Measurement of aptamer binding affinity using Fluorescence-labelled aptamer (NHS-activated resin)
	01.00 – 02.00 pm	Lunch
	02.00 – 04.00 pm	Lab 5 : Characterisation of aptamer binding • Cloning (demo) • Prediction of secondary structure of aptamer using mfold program
	04.00 – 04.30 pm	Sharing session : In-silico vs SELEX: Challenge
	04.30 – 05.00 pm	Discussion & closing remark