



UNIVERSITI
SAINS
MALAYSIA



INFORMM HANDS-ON COURSE

SELEX TECHNOLOGY: THE APTAMER SELECTION (SERIES II)

22 – 24 July 2019 | INFORMM Health Campus, Kelantan



SPEAKER

Dr. Khairul Mohd Fadzli Mustaffa, INFORMM

*Other speakers will be announced soon.

REGISTER BEFORE

21 JULY 2019

FEES

RM 800 ONLY!

**SEATS ARE
LIMITED!**

Come join us!

Contacts

Fadhzli Wahab

fadhzliwahab@usm.my

09-7672406

Registration

Nurul Nadiah Ahmad Zamani

nadiah@usainsgroup.com

09-767 3801

Click to Register

This hands-on course is organised by the Institute for Research in Molecular Medicine (INFORMM), Universiti Sains Malaysia with the support from Ministry of Education Malaysia under the HICoE program and our proud co-organizer :





TENTATIVE PROGRAMME

SELEX TECHNOLOGY : THE APTAMER SELECTION

Day	Time	Tentative Programme
22 July 2019 (Monday)	08.30 – 09.00 am	Registration
	09.00 – 09.10 am	Opening remark
	09.10 – 11.00 am	Lecture 1 : An Overview of SELEX Technology Dr. Khairul Mohd Fadzli Mustaffa (INFORMM, USM)
	11.00 – 11.30 am	Tea break & Photo Session
	11.30 – 12.30 pm	Lecture 2 : Aptamer Technology Dr. Khairul Mohd Fadzli Mustaffa (INFORMM, USM)
	12.30 – 01.00 pm	Lecture 3 : Fluorescence Spectrophotometer (Fisher Scientific (M) Sdn Bhd)
23 July 2019 (Tuesday)	01.00 – 02.00 pm	Lunch Break
	02.00 – 05.30 pm	Lab 1 : Preparation of selection matrix (Demo) & 1st SELEX
	08.30 – 09.00 am	Breakfast
	09.00 – 01.00 pm	Lab 2 : Production of ssDNA (SELEX Cycle) <ul style="list-style-type: none"> • PCR Optimization • Purification of ssDNA <ul style="list-style-type: none"> - Asymmetric PCR - Digest with Exonuclease - Purification of ssDNA
	01.00 – 02.00 pm	Lunch
	02.00 – 05.00 pm	Lab 3 : Check on Aptamer Binding Using Fluorescence-Labelled Aptamer <ul style="list-style-type: none"> • Post – SELEX experiment using selected SELEX cycle of labelled aptamer pool • Measure bound aptamer using Fluorescence Spectrophotometer
24 July 2019 (Wednesday)	08.00 – 09.00 am	Breakfast
	09.00 – 12.30 pm	Lab 4 : Measurement of aptamer binding affinity using Fluorescence-labelled aptamer (NHS-activated agarose resin)
	12.30 – 02.00 pm	Lunch
	02.00 – 04.00 pm	Lab 5 : Characterisation of aptamer binding <ul style="list-style-type: none"> • Cloning (demo) • Prediction of aptamer secondary structure using free mfold software program.
	04.00 – 04.15 pm	Discussion & Closing Remarks