

2nd Hands-On CRISPR Genome Editing Workshop (HOCGEW)

Date: 8 – 11 October 2019

Venue: ARC, Advanced Medical and Dental Institute (AMDI), Universiti Sains Malaysia, Kepala Batas, Penang

Due to popular request, **day one (8th October 2019) of our CRISPR workshop is now open to all, free-of-charge.** You will get to hear talks from experts and discuss with them about planning for a CRISPR experiment.

The first talk will cover the basics and focus on the general workflow of CRISPR. The second talk will be given by an expert from Singapore who will elaborate about how to work with small amounts of samples, or lowly expressed genes when doing CRISPR work. The third speaker will talk about how to pick a good gene to target, especially when you are interested in investigating a certain biological pathway. Lastly, the final speaker will walk you through the free online software programs and the A-Zs of designing a specific, efficient guide RNA for CRISPR.

CPD points will also be offered. Email kumitaa@usm.my to find out more.

Day 1 - Tuesday, 8 th October 2019			
Time	Activity	Speaker	Venue
8.10 – 9.00 am	Registration	Secretariat	Seminar Room, ARC
9.00 - 9.15 am	Opening speech	Prof Syed Azhar Syed Sulaiman	Seminar Room, ARC
9.15 - 10.00 am	Lecture: Mastering the art of CRISPR	Mr Choo Chee Wei (Biodiagnostics)	Seminar Room, ARC
10.00 – 11.00 am	Breakfast (For paying participants only)		
11.00 – 12.30 pm	Lecture: CRISPR for precision medicine: The power of partitioning in droplet digital PCR	Dr Karolina Dwi Setyowati (Bio-Rad Laboratories)	Seminar Room, ARC
12.30 – 1.00 pm	Forum: Forum session with the experts	Mr Choo and Dr Karolina	Seminar Room, ARC
1.00 - 2.00 pm	Lunch (For paying participants only)		
2.00 – 3.00 pm	Lecture: The search for genic pathways in CRISPR research	Mr Kalidasan Vasodavan (Universiti Sains Malaysia)	Seminar Room, ARC
3.00 – 4.00 pm	Lecture: Unlocking the potential of genome editing: Designing CRISPR gRNAs for therapeutic and diagnostic purposes	Dr Kumitaa Theva Das (Universiti Sains Malaysia)	Seminar Room, ARC
4.00 - 5.30 pm	Lab session (Hands-On): CRISPR bioinformatics - Choosing a suitable vector - Designing a specific gRNA - Determining off-targets	All lecturers	Seminar Room, ARC
5.30 pm	Tea break (For paying participants only)		