

INTERNATIONAL WORKSHOP ON LATERAL FLOW ASSAY AND BIOSENSOR TECHNOLOGIES

17th – 20th JUNE 2019

INFORMMM USM Health Campus, Kelantan

SPEAKERS

1. **Professor Dr. Mohammed Zourob**
Alfaisal University, Riyadh, KSA
2. **Professor Dr. Mohd Adzir Mahdi**
Universiti Putra Malaysia
3. **Assoc. Prof. Dr. Asrulnizam Abd Manaf**
Universiti Sains Malaysia
4. **Assoc. Prof. Dr. Aziah Ismail**
Universiti Sains Malaysia
5. **Dr. Yazmin Bustami**
Universiti Sains Malaysia
6. **Dr. Klaus Hochleither**
GE Healthcare, Germany
7. **Dr. Warrick Su**
Zensor R&D Co., Taiwan
8. **Dr. Anthony V. Lemmo**
COO, BioDot Inc.
9. **Dr. Jonathan How**
GE Healthcare, Singapore
10. **Mr. Yusuf Mohd Johari**
*Medical Device Authority (MDA)
Ministry of Health Malaysia*

FEES

International participant : USD 300

Local participant : MYR 950

SEAT LIMIT

30 participants

ENQUIRIES

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REGISTRATION

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TENTATIVE PROGRAMME	
Day 1	Lateral flow development assay
	<ul style="list-style-type: none"> Basic of building a rapid assay Optimization and troubleshooting in developing a rapid lateral flow assay Conjugates in lateral flow test: An overview Application of reader for lateral flow assay <p>Hands on:</p> <ul style="list-style-type: none"> Dispensing, laminating & strip cutting lateral flow components Visualizing the detection by gold nanoparticles conjugation
Day 2	Optical Biosensor
	<ul style="list-style-type: none"> Navigation of optical biosensors in diagnostics The discovery of optical biosensor technologies A real-time portable device sensor: Overview of surface plasmon resonance (SPR) Optical fiber for sensing: Towards diagnostics applications Optical biosensors for the detection of pathogenic microorganisms: protein and nucleic acid <p>Hands on:</p> <ul style="list-style-type: none"> Surface plasmon resonance for protein/nucleic acid detection <ul style="list-style-type: none"> Immobilization of Human Monoclonal Antibody onto the Sensor Chip by Amine Coupling Single Cycle Kinetics to study the interaction between Antibody and Human B2-microglobulin

TENTATIVE PROGRAMME	
Day 3	Electrochemical biosensor
	<ul style="list-style-type: none"> Introduction to Electrochemical sensor & Implementation on 2 and 3 electrodes based sensor (CE, WE, RE) Characterization on EC sensor based on CV technique, resolution and sensitivity sensing mechanism on IDE electrode structure & micro fluidic MEMS technology for lab on chip device An integrated and rapid biosensors for pathogens and protein Biosensors Bio-Microelectromechanical Systems (BioMEMS) and Nanotechnology-based approach for diagnostic application BioDot system for lateral flow assay and biosensor application <p>Hands on:</p> <ul style="list-style-type: none"> Demonstration on EC detection with Cyclic voltanmetric technique Demonstration of basic microfluidic system with sensor detection Analysis of colorimetric detection using magnet-gold nanoparticles
Day 4	Industrial application and Malaysia regulatory
	<ul style="list-style-type: none"> Registration and regulation for medical device ISO 13485: Does it mandatory? How to convert lateral flow assay to digital device Kelantan heritage culture tour

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