



**UMS**  
UNIVERSITI MALAYSIA SABAH



## **Sabah : Future Joint Research and Development Using Mass Spectrometry**

**Venue : Biotechnology Research Institute, UMS**

**Date : 11<sup>th</sup> & 12<sup>nd</sup> October 2017**

**Time : 8.30am - 4.30pm**

### **INTRODUCTION**

Mass spectrometry(MS)-based analytical platform has been widely adopted in different sectors including biotechnologies, research & development, environmental monitoring and control, food processing, pharmaceutical, agrochemicals, authorities etc. It is undeniable that MS positioned itself as an important tools in quality control and quality assurance in different areas.

This workshop, we are aimed to:

- Gather new and existing Liquid chromatography (LC) MS user to share their knowledge and experience in handling, manipulating and the applications of LC MS from different aspects.
- More importantly, we welcome collaborations from industries, academia and authorities to solve current issues.

### **PROGRAM TENTATIVE:**

#### **11th Oct 2017 : Mass Spectrometry In Quantitative and Qualitative Analysis**

<b>Time</b>	<b>Topics</b>	<b>Speakers</b>
8.00 - 8.45	Registration	-
8.45 - 9.00	Opening remarks - Acting Director (Dr Zarina Amin)	
9.00 - 10.00	<b>LC-MS based metabolomics: A complementary Platform in high-Throughput untargeted study</b> <ul style="list-style-type: none"> <li>● Application of Metabolomics</li> <li>● Targeted vs untargeted</li> <li>● Which analytical platform/mass spectrometry for experiment</li> </ul>	<b>Dr Ling Yee Soon</b> Senior Lecturer, Biotechnology Research Institute (UMS)
10.00 - 10.15	Tea Break	
10.15 - 11.15	<b>Comprehensive Software Solution for Qualitative &amp; Quantitative Mass spectrometry Analysis</b>	<b>Dr Jaran, Jainhuknan</b> SEA Application Support Manager, BRUKER
11.15 - 11.30	Q & A session	
11.30 - 12.00	Lab Tour	
12.00 - 2.00	Lunch Break	



2.00 - 3.00	<b>Metabolomics: An Emerging Omics Technology to Unravel the Potential of Local Herb</b>	<b>Assoc. Prof. Dr. Syarul Nataqain Baharum</b> Head of Centre for Genome and Analysis Technology (CGAT) & Centre for Plant Biotechnology (CPB), INBIOSIS, UKM
3.00 - 3.15	Q & A session	
3.15 – 4.00	<b>Unreveal the Identity of the UNKNOWNNS with True Isotopic Pattern</b>	<b>Dr Jaran, Jainhuknan</b> SEA Application Support Manager, BRUKER

**Day 2 (12<sup>nd</sup> October 2017) - Lab Session "Highthroughput Data Analysis"**

Time	Topics	Speakers
9.30 - 11.30	<p><b>Introduction to Target Analysis for Screening and Quantitation (TASQ)</b></p> <ul style="list-style-type: none"> <li>• Introduction to software :               <ul style="list-style-type: none"> <li>- General screening strategies, differences between Single-, Multiple- and General Unknown Target screening options.</li> <li>- General quantitation aspects with regards to calibration, QC samples and unknown samples.</li> </ul> </li> <li>• Data acquisition setup of screening and quantitation experiments.</li> <li>• Software demonstration.</li> </ul>	<p><b>Dr Jaran, Jainhuknan</b> SEA Application Support Manager, BRUKER</p>
11.30 – 12.00	<b>Q &amp; A</b>	
12.00 – 2.00	Lunch Break	
2.00 – 4.00	<p><b>Introduction to MetaboScape</b></p> <ul style="list-style-type: none"> <li>• Understand the biological context via the pathway mapping</li> <li>• Linking both targeted and untargeted screening data from TASQ software into biochemical pathway workflow.</li> <li>• MetaboScape software demonstration</li> </ul>	
4.00 – 4.30	<b>Q &amp; A</b>	



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## SPEAKERS



**Dr. Jaran , Jainhuknan**  
*SEA Applications Support Manager, BRUKER*



**Assoc. Prof. Dr. Syarul Nataqain Baharum**  
*Head of Centre for Genome and Analysis Technology (CGAT) & Centre for Plant Biotechnology (CPB), INBIOSIS, UKM*



**Dr. Ling Yee Soon**  
*Senior Lecturer, Biotechnology Research Institute (UMS)*



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**Registration Fee for LAB SESSION, 12<sup>th</sup> October 2017:**

Participants	Registration fees (RM)
STUDENT	50.00
RESEARCHER / ACADEMICIAN / GOVT.	100.00
INDUSTRY / PRIVATE SECTOR	

Name : Universiti Malaysia Sabah

Bank : Maybank

Account Number : **5100-1302-2413**

Swift Code : **MBBEMYKLXXX**

Account Branch : Jalan Pantai, Kota Kinabalu, Sabah, Malaysia

**REMINDER: Registration is required, please fax or email your confirmation of attendance and registration details today!**

Please fax or email on your confirmation of attendance and registration by the **7<sup>th</sup> October 2017**

Your Contact Person:

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**[ REGISTRATION FORM ]**

<b>11-12 October, 2017 Program</b>		<b>Please tick ✓ for registration</b>
Day 1 11 OCTOBER, 2017 (Wed)	(Seminar ) "MASS SPECTROMETRY IN QUANTITATIVES & QUALITATIVES ANALYSIS" (Free admission/ <b>Limited to 50 pax</b> )	
Day 2 12 OCTOBER 2017 (Thu)	(Lab session) HIGHTHROUGHPUT DATA ANALYSIS: 1. TASQ Software (Target Analysis for Screening and Quantitation) & 2. METABOSCAPE Software (Fees applied/ <b>Limited to 15 pax</b> )	

<b>Name:</b>	_____
<b>Job Title:</b>	_____
<b>Company:</b>	_____
<b>Address:</b>	_____
<b>Tel:</b>	_____
<b>Fax:</b>	_____
<b>Email:</b>	_____