



## SPEAKER



**ANG MAY YEN**  
Application Manager,  
Analytical & Scientific  
Instrument Division,  
Shimadzu Malaysia  
Sdn. Bhd.

**Background:**  
Graduated with a Master Degree in Science (Marine Biotechnology) and Bachelor Degree in Science (Industrial Chemistry) from Universiti Malaysia Sabah. nine years experience in handling and conducting training on analytical instruments such as UV-VIS spectrophotometer, Atomic Absorption Spectrometry (AAS), Fourier Transform Infrared Spectroscopy (FTIR), High Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), High Performance Liquid Chromatography Mass Spectrometer (LCMS, LCMSMS) and Gas Chromatography Mass Spectrometer (GCMS, GCMSMS).

## COURSE FEE

UPM	RM900.00
Non-UPM (including GST)	RM954.00

Course fee includes course materials, 3 meals/day and transportation from Institute of Bioscience, UPM to the training venue.

## REGISTRATION

Please complete the online registration:  
<https://goo.gl/forms/iPKrBPYTa7MdrqMz2>

All payments must be made payable to:  
Account Name: KIRA-KIRA AM UPM  
Account No.: 80-0215196-3  
Bank Name: CIMB Bank Berhad

### Secretariat

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# GC-MS CSI: DETECTING CULPRIT SPECIES IN FOOD AND COSMETIC PRODUCTS

**8-10 MAY 2018**  
**VENUE:  
SHIMADZU KOTA  
DAMANSARA**

Jointly organized by:

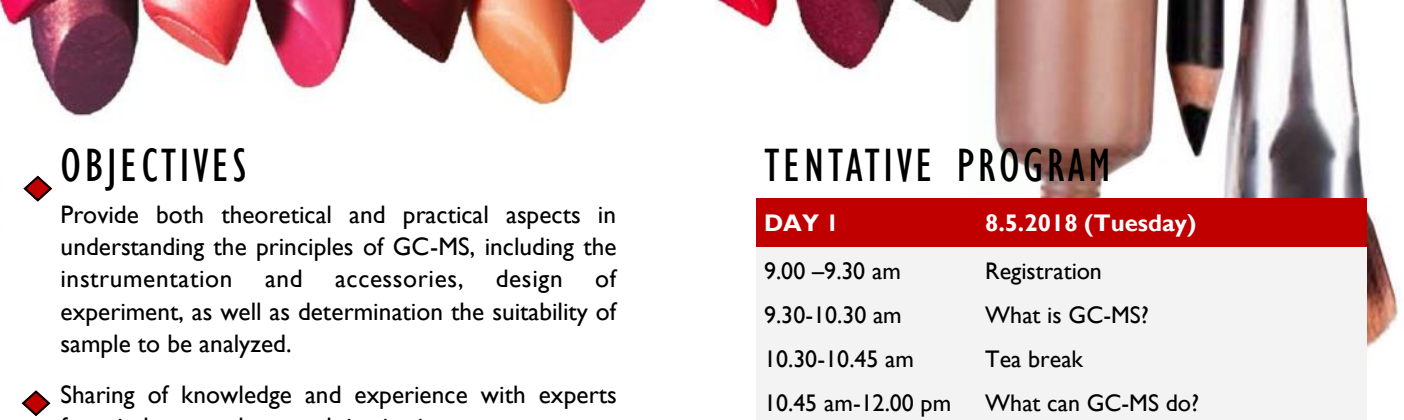


Laboratory of Molecular  
Biomedicine,  
Institute of Bioscience



Shimadzu (M) Sdn. Bhd.





## OBJECTIVES

- ◆ Provide both theoretical and practical aspects in understanding the principles of GC-MS, including the instrumentation and accessories, design of experiment, as well as determination the suitability of sample to be analyzed.
- ◆ Sharing of knowledge and experience with experts from industry and research institutions.

Gas chromatography-mass spectrometry (GC-MS) is one of the so-called hyphenated analytical techniques. As the name implies, it is actually two techniques that are combined to form a single method of analyzing mixtures of chemicals. GC separates the components of a mixture and MS characterizes each of the component individually. By combining the two techniques, qualitative and quantitative evaluation can be performed.

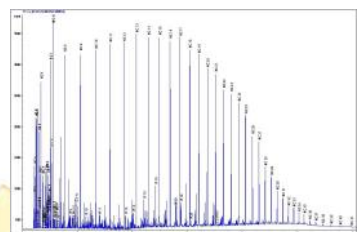
The uses for GC-MS are numerous; in medical, pharmacological, environmental and also law enforcement fields.



Shimadzu GC-MS-QP2010 Ultra



Shimadzu Customer Support Centre



## WHO SOULD ATTEND?

Researchers and scientists including postgraduate students, lecturers, research officers, personnel in R&D and those who want to gain knowledge and experience in the chemistry analysis by using GC-MS.

## TENTATIVE PROGRAM

DAY 1		8.5.2018 (Tuesday)	
9.00 –9.30 am			Registration
9.30-10.30 am			What is GC-MS?
10.30-10.45 am			Tea break
10.45 am-12.00 pm			What can GC-MS do?
12.00-2.00 pm			Lunch break
2.00-2.45 pm			Understanding, planning and development of an analytical method
2.45-3.45 pm			Hypothesis and experimental design on how to analyze given sample
3.45-4.30 pm			GC-MS Real Time Analysis
4.30-5.00 pm			Tea
DAY 2		9.5.2018 (Wednesday)	
9.30-10.45 am			Sample preparation and preliminary analysis of given samples
10.45-11.00 am			Tea break
11.00 am-12.30 pm			Processing and understanding GC-MS SCAN data
12.30-2.00 pm			Lunch break
2.00-2.30 pm			Discussion on the preliminary results
2.30-4.30 pm			Set up and fully utilizing the GC-MS for trace quantification analysis (SIM)
4.30-5.00 pm			Tea
DAY 3		10.5.2018 (Thursday)	
9.30-9.45 am			Tea
9.45-11.15 am			Processing and understanding SIM data
11.15 am-12.15 pm			Q&A session, Quiz
12.15-12.30 pm			Closing
12.30-2.00 pm			Lunch

