

# Statistical Approaches For Integrative Omics Data Analysis

**DATE** : 2 - 3 September 2015  
(Wednesday - Thursday)  
**TIME** : 8:45am - 5:30pm  
**VENUE** : International Medical University,  
Bukit Jalil, Kuala Lumpur, Malaysia

Omics platforms had been frequently used in scientific research recently due to its increasing budget affordability and high data throughput. However, majority of the subscribers in Malaysia are dependent on external bioinformatics service providers for data interpretation. This inevitably limited the scope of analyses that can be carried out (e.g. usually restricted to the standard procedures offered by the service providers) which might led to bias interpretation of data. Further, few had extended their research by incorporating multiple omics platforms to allow a full system biological evaluation of the target(s) studied.

This workshop aims to provide intermediate level training to researcher/students embarking on system biology studies, investigator who planned to reduce dependency on external bioinformatics company for data analyses, and for those who would like to add additional perspective into data handling.

## Objectives

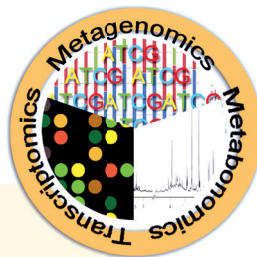
- To discuss the laboratory requirement to conduct 16S metagenomics, faecal/urine metabolomics and / or microarray research
- To highlight the prerequisite to produce statistical meaningful dataset for hypothesis testing
- To provide hands on training in handling 16S metagenomics, faecal/urine metabolomics and microarray data
- To navigate the biological meaning from the complex 'omics data using pathway analysis

## Target Audience

Researchers interested and planning to carry out interomics research

### CONTACT PERSON

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**HRDF Claimable**  
\*subject to approval

**CPD Points** will be awarded

## Speakers Profile



Dr Chong  
Chun Wie

Dr Chong Chun Wie obtained his PhD from University of Malaya, Malaysia, and is currently serving as faculty member in Department of Life Sciences, International Medical University. He started his research career on Polar soil ecology in response to climate and anthropogenic impact. Moving on from soil, he ventured into human gut microbiome research and have been actively involved in the characterisation of human (infant and indigenous population), laboratory animals (mice) and farm animals (swine and boiler chicken) gut microfloras. Among his special interest include the application of multivariate statistics common to soil ecology on human and animals study to provide additional dimension in data interpretation.



Dr Ivan Yap  
Kok Seng

Dr Ivan KS Yap is currently Senior Lecturer at the Department of Life Sciences in IMU. He obtained his BSc (Honours) degree in Pharmaceutical Sciences from University of Greenwich (UK) in 2001 and PhD in Chemistry from Imperial College London (UK). He undertook his post-doctoral research training in the Department of Surgery and Cancer at Imperial College London, UK from 2005 – 2010 specialising in metabolomics. Dr Ivan Yap has been actively involved in metabolomics research for more than 10 years. His research interest includes application of metabolomics in infectious disease, population health and understanding host-microbiome interactions through systems biology approaches. Dr Ivan Yap was appointed as Honorary Research Fellow of Imperial College London in 2012 and Associate Fellow at UiTM (Malaysia) in 2013. He is a member of the Royal Society of Chemistry (UK) and the British Society for Parasitology.



Ms Teng  
Loong Hung

Ms Teng Loong Hung holds the M.Sc Biochemistry from UKM. She has vast experience in handling and interpreting data from microarray and flow cytometer during her serviced in the Molecular Pathology Unit of Institute for Medical Research (IMR). She joined Research Instruments Malaysia since March 2010 and is now designated as the application manager to support local researchers across Malaysia in research pertaining to the application of microarray, microplate reader, Seahorse Biosciences product, Live Cell Imaging, digital PCR and flow cytometer.

**REGISTRATION FEE: RM848 (inclusive of 6% GST)**



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Dietary Needs/Preference: Vegetarian  Non-Vegetarian Are you an IMU Alumni member? Yes  No **REGISTRATION FEE** RM848 (inclusive of 6% GST)**MODE OF PAYMENT**

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**CANCELLATION POLICY**

1. Any cancellation of registration must be made in writing to the Secretariat of Statistical Approaches For Integrative Omics Data Analysis.
2. There will be a 50% refund of registration fee for cancellation made before 3 August 2015.
3. There will be a 30% refund of registration fee for cancellation made before 17 August 2015.
4. There will be no refund of registration fee for cancellations made after 24 August 2015, however a substitute participant will be welcomed.
5. The Organiser reserves the right to cancel or change the topic of the workshop, if for whatever reasons beyond its control, the workshop cannot be held as scheduled or the topics need to be altered.

**DECLARATION AND AUTHORISATION**

1. I confirm that the above information is correct and I will inform IMU when there is any change to this information.
2. I have read, understood and consent to the processing of my personal data as set out in the enclosed Privacy Notice.

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Signature\_\_\_\_\_  
Date**DISCLAIMER:**

The organiser reserves the right to make such alterations to the programmes as circumstances dictate and will not accept responsibility for any errors, omissions or changes made to the speakers' information. The views and opinions expressed by the speakers at this workshop are not necessarily the views and opinions of the organiser.

**FOR MORE INFORMATION, KINDLY CONTACT:**

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