


TRANSCRIPTOMICS WORKSHOP

From Experimental Design to Downstream Analysis and Insights Generation

In collaboration with:  Codon Genomics

DATE | 26 - 28 November 2024, Tuesday - Thursday
TIME | 8:30am – 5:30pm
VENUE | IMU University (Formerly known as International Medical University)
Bukit Jalil, Kuala Lumpur, Malaysia

SPEAKERS



Prof Hoh Boon Peng
Professor, School of Health Sciences,
IMU University



Ts Dr Yeannie Yap Hui Yeng
Senior Lecturer, School of Health Sciences,
IMU University



A/Prof Goh Hoe Han
Deputy Director, INBIOSIS, UKM



Dr Lee Wei Kang
Vice President, Application Sciences,
Codon Genomics



Dr James Liew Kok Jun
Senior Bioinformatician,
Codon Genomics

Transcriptomics has, in recent years, emerged as a popular topic in biological research and real-world applications. With the revolution in next-generation sequencing (NGS) and bioinformatics, RNA sequencing (RNA-Seq) provides a high-throughput, high-sensitivity, and high-resolution technique that empowers high-impact research from single-cell, spatial to genome-wide association study. In this workshop, participants will gain insights into the application and practical workflow approaches for transcriptomics analysis. We will cover basic experimental design for RNA-Seq data analysis, including the use of various analytical tools, relevant file formats, reference genomes, transcriptome annotations, quality control measures, reference-based alignment, gene expression, and differential gene and isoform analyses. Hands-on exercises will be provided for participants to practice using complete analytical pipelines and computing resources on test datasets. The use of Artificial Intelligence (AI) and Machine Learning (ML) in connecting transcriptome information to environment parameters, nutrition, agricultural and clinical outcomes will also be covered.

EXTRA BENEFITS:

**FREE admission to Pre-workshop
Webinar**

**FREE 1-to-1 Genomic Clinic
Consultation** during workshop

**FREE 1-month Post-workshop
Consultation**

OBJECTIVES

- To describe the basic experimental design and workflow approaches for transcriptomics analysis.
- To apply bioinformatics software and tools in analysing RNA-Seq data.
- To interpret and annotate data with functional information.

REGISTRATION FEE (inclusive of SST)

Regular
RM2500

**IMU Staff / Alumni
/ Student (Non-IMU)**
RM1750

IMU Student
RM1250



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REGISTRATION FORM

SURNAME / LAST NAME:

FIRST NAME:

NATIONALITY:

GENDER: MALE FEMALE

TITLE: MR MRS MS PROF DR

OTHER:

ORGANISATION:

PUBLIC PRIVATE

DEPARTMENT:

POSITION:

TEL NO: ()

FAX NO: ()

MOBILE PHONE NO:

ADDRESS:

POSTCODE:

CITY:

STATE:

Please indicate whether this is your office or home address: ORGANISATION HOME

EMAIL:

ORGANISATION'S WEBSITE (IF ANY):

ARE YOU AN IMU ALUMNI MEMBER? YES NO

DIETARY NEEDS/PREFERENCE: VEGETARIAN NON-VEGETARIAN

REGISTRATION FEE

Regular: RM2500

IMU Staff / Alumni / Student (Non-IMU): RM1750

IMU Student: RM1250

MODE OF PAYMENT

PLEASE TICK YOUR OPTION:

CASH

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CREDIT CARD I hereby authorise the processing of my card for the sum of (RM):

Please complete the following sections. These details are required for security purposes.

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CANCELLATION POLICY

1. Any cancellation of registration must be made in writing to the Secretariat of of Transcriptomics Workshop - from experimental design to downstream analysis and insights generation.
2. There will be full refund of registration fee for cancellation made by 26 September 2024.
3. There will be a 50% refund of registration fee for cancellation made before 26 October 2024.
4. There will be a 30% refund of registration fee for cancellation made before 12 November 2024.
5. There will be no refund of registration fee for cancellation made on 12 November 2024 and thereafter.
6. The Organiser reserves the right to cancel or change the topic or trainer 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.

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.

