



Biotech 1,
Faculty of Biotechnology &
Biomolecular Sciences
Universiti Putra Malaysia
43400 UPM Serdang,
Selangor



7 & 8 August 2018



FEE



Student	RM550
Government	RM850
Industry	RM1000
International	USD300

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Inquiries/Proof of payment please
email to us at:
zebrafishupm@gmail.com

ZEBRAFISH WORKSHOP 2018: Zebrafish As A Model System For Toxicology



Organizer:



Department of Biochemistry, FBSB



With Collaboration:



Malaysian Society of Toxicology

Introduction

Toxicity test using zebrafish embryo is a robust test which is very cost effective, fast and convenient. Fitting nicely in 96 well plate with rapid observable growth and high correlation study to human - 80%.

Zebrafish embryo has been regarded as essential animal model in biomedicine (diabetes, heart disease etc) and toxicology. Zebrafish embryo is effectively used for screening systemic toxicant and complex mechanism. Adult zebrafish is regarded as a breakthrough model for unlocking numerous biological process related to human like muscle dystrophy, diseases and cancer.



Objective

First day workshop is aiming for an alternative toxicity screening test using zebrafish embryo. All participants will get hands-on experience on handling zebrafish embryo, LC50 testing, and teratogenicity measurement.

Second day workshop will uncover the extensive usage of zebrafish and how to administer sample by gavaging technique and blood withdrawal from adult zebrafish.



Itinerary

7th August 2018

9.15 am: Lecture 1 - Introduction

10.15am: Lecture 2 - Zebrafish as Model for Toxicity Measurement

11.20am: Briefing by Danio Assay Laboratories Sdn Bhd

11.30am: Practical 1 - Handling Zebrafish Embryo

2.30 pm: Practical 2 - LC50 Measurement with Zebrafish Embryo

3.30 pm: Practical 3 - Teratogenicity Measurement

8th August 2018

9.00 am: Lecture 3 - Usage and Regulation Zebrafish in Research

10.30am: Practical 4 - Sample Administer via Zebrafish Mouth

2.00 pm: Practical 5 - Blood Withdrawal Technique from Zebrafish

10.00am: Refreshment



1.00 pm: Lunch

4.30 pm: High Tea