

TAY ZHENG YI

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EDUCATION

The University of Hong Kong (HKU) *2025-Current*

- PhD, LKS Faculty of Medicine

Universiti Malaya (UM) *2020-2024*

Bachelor of Science in Genetics, Dean's List

- CGPA: 3.94/4.00
- Courses: Advanced Immunogenetics, Human Genetics, Applied Recombinant DNA Technology, From Cell to System, Bioinformatics & Phylogenetics, Genome Analysis, Cancer and Tumorigenesis, Advanced Genetics

Pahang Matriculation College *2019 - 2020*

- CGPA: 4.00/4.00
- Courses: Biology, Chemistry, Physics, Mathematics

St. Francis' Institution, Melaka *2014 - 2018*

- Malaysian Certificate of Education, SPM (2018): 6A+, 3A, 1A-
- Pentaksiran Tingkatan 3 (PT3): 10A's

RESEARCH EXPERIENCE

The University of Hong Kong (HKU)

Research Assistant I

Nov 2024-Feb 2025

- Developed in vitro 3D organoid platform to mimic early human embryo to study hematopoiesis pathway.
- Involved in molecular work for CRISPR screening project in the lab.

Summer Research Intern (SRP 2024)

June 2024-Aug 2024

- Established vascularized immune organoid (VIO) from human pluripotent stem cells (hPSCs).
- VIO wholemount immunostaining with confocal imaging to determine STAT3 activity.

Contact: Prof. Rio Sugimura – rios@hku.hk

Cancer Research Malaysia (CRM)

Industrial Trainee

Dec 2023- Feb 2024

- Assigned under the Cancer Prevention & Population Science Unit
- Involved in the study of attitudes towards risk-stratified screening among women in Malaysia.
- Performed verbatim transcription for recordings in different languages such as Malay & Chinese and translation to English.
- Performed thematic analysis involving coding using NVivo software.

Contact: Dr. Tai Mei Chee – Meichee.tai@cancerresearch.my

UPM-MAKNA Cancer Research Laboratory (CANRES)

Research Intern

Jul 2023 – Sep 2023

- Performed MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide) assay to assess cytotoxic effects of compound submitted by clients on different types of cancer cell lines.
- Conducted cell culture works
- Engaged in the CANRES Open Day, which offered participants valuable insights into the ongoing cancer research initiatives within the laboratory.

Contact: Assoc. Prof. Dr. Chia Suet Lin – suetlin@upm.edu.my

PROJECT

Investigating the growth inhibition of human oral cancer cells by malabaricone B through apoptosis pathway.

Thesis

Nov 2022 – July 2023

- Investigated the in vitro anti-proliferative effects of malabaricone B in H103 human oral cancer cell lines.
- Performed sulforhodamine B assay and found that malabaricone B has inhibitory effect against H103 cell lines.
- Carried out Hoechst 33342/PI double staining assay to observe morphology of cancer cells upon malabaricone B treatment.
- Performed flow cytometric analysis to analyze effect of malabaricone B treated H103 cell lines on mitochondrial membrane potential (MMP), caspase-8 & -9 activation and cell cycle phase.

AWARDS & HONORS

HKU Presidential PhD Scholar Program

March 2024

Dean's List

5 Semesters

(2021-2024)

JPA PIDN Scholars

Sep 2022 – Feb 2024

SKILLS

Languages: English (Proficient), Malay (Proficient), Mandarin (Native)

Technical Skills: Microsoft (Excel, PowerPoint, Word), Canva