



**Dr Teow Sin Yeang (Ronald)**

**BSc (Biotechnology), PhD (Molecular Virology and Oncology)**

**Position:**

Research fellow

**Email:**

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Ronald obtained his PhD from Advanced Medical and Dental Institute, Universiti Sains Malaysia in 2015. His research was mainly on developing an antibody-based anti-HIV therapy against HIV-1 intracellular capsid protein p24. He had engineered a cell-penetrating antibody (TransmAbs) by chemical conjugation and his work has shown that the TransmAbs internalizes into the target cells and inhibit the HIV-1 replication. After his graduation, he worked as a research assistant under Dr. Alan Khoo at Molecular Pathology Unit, Institute for Medical Research. His project was mainly looking at the role of Epstein-Barr virus (EBV) on nasopharyngeal carcinoma (NPC) pathogenesis as well as investigating the relationship of cancer-stromal cells in the NPC tumour microenvironment. He has successfully established and immortalized several cancer-associated fibroblasts from biopsies taken from NPC patients and he has shown that the fibroblasts accelerated the growth of NPC cells in an *in vitro* direct co-culture system. He is now investigating the role of patient-derived fibroblasts in NPC establishment and cancer metastasis both *in vitro* and *in vivo*. He recently joined Sunway University as a research fellow under Prof. Peh's supervision.

**Teaching Experience:**

During his PhD, he had assisted his supervisor in designing and conducting several mini research projects for attachment/ internship students (including Diploma and BSc students). As a senior student, he was also required to guide the junior students (MSc and PhD candidates) both theoretically and practically in their projects. At IMR, he has also supervised two internship students from International Medical University and Penang Medical College, respectively.

**Research Interests:**

- Molecular biology
- Cell biology
- Immunology
- Virology
- Oncology

**Selected Publications:**

Ali, SA., **Teow, SY.**, Omar, TC., Khoo, ASB., Tan, SC., and Yusoff, NM. (2016). "A Cell Internalizing Antibody Targeting Capsid Protein (p24) Inhibits the Replication of HIV-1 in T Cells Lines and PBMCs: A Proof of Concept Study". *PLoS One*, 11(1), e0145986.

Mualif, SA., **Teow, SY.**, Omar, TC., Chew, YW., Yusoff, NM., and Ali, SA. (2015). "Engineering and Validation of a Vector for Concomitant Expression of Rare Transfer RNA (tRNA) and HIV-1 *nef* Genes in *Escherichia coli*". *PloS One*, 10(7), e0130446.

Al-alimi, AA., Ali, SA., Al-Hassan, FM., Idris, FM., **Teow, SY.**, and Yusoff, NM. (2014). "Dengue Virus Type 2 (DENV2)-Induced Oxidative Responses in Monocytes from Glucose-6-Phosphate Dehydrogenase (G6PD)-Deficient and G6PD Normal Subjects". *PloS Neglected Tropical Diseases*, 8(3), e2711.

**Teow, SY.**, Mualif, SA., Omar, TC., Chew, YW., Yusoff, NM., and Ali, SA. (2013). "Production and Purification of Polymerization-competent HIV-1 Capsid Protein p24 in N1Co21(DE3) *Escherichia coli*". *BMC Biotechnology*, 13, 107.

**Professional Membership/ Affiliations:**

EXCO member of Nasopharyngeal Carcinoma Society Malaysia

Editorial board member of *Aperito Biotechnology Biomaterial Engineering: Recent Trends*

Reviewer of *Journal of Medicinal Plant Research*

Reviewer of *International Blood Research & Reviews*