

Winnie Wai Ling Tam

zilveetam@gmail.com

Education

- Sep 2021 **The University of Edinburgh**
MSc in Medicinal and Biological Chemistry Distinction
Thesis title: Molecular dynamics simulation to understand the mechanism of EPAC activation by the partial agonist I942
P.I.: Dr. Julien Michel
Key skills: docking, MD simulations, Python programming
- Nov 2019 **The University of Hong Kong**
BBiomedSc 2:1
Major in Biomedical Sciences (cGPA: 3.08)
Minor in Genetics and Genomics
Minor in Chemistry
Thesis title: An analysis of alcohol consumption in Hong Kong following tax abolition
P.I.: Dr. Jianchao Quan, Dr. Herbert Pang
Key skills: public health data analysis, R programming, interrupted time series analysis

Working Experience

- Oct 2022-present **Research Assistant - Hong Kong Baptist University**
P.I.: Dr. Yu Yuanyuan
Investigation of aptamer-protein interaction by docking and MD simulations. Conducted post-SELEX structural analysis using computational approach.
- Feb 2021 - Sep 2022 **Research Associate – The University of Hong Kong**
P.I.: Dr. Edmund C. M. Tse
Identification of novel Fe-S cluster containing protein using multidisciplinary approaches, including computational motif search, recombinant protein expression and purification in anaerobic conditions. Gained experience in PCR, bacterial transformation, protein overexpression and FPLC. I also explored the specificity of DNA electrode and method for regenerating DNA electrode. In-charge of equipment maintenance, laboratory inventory tracking and guidance for junior members.

Publications

1. Li, K., Ngo, F. M., Yau, A. Y. L., **Tam, W. W. L.**, Tse, E. C. M., Tsoi, J. K. H., & Yiu, C. K. Y. (2022). Mussel-inspired monomer–A new selective protease inhibitor against dentine collagen degradation. *Dental Materials*, 38(7), 1149-1161.