



CURRICULUM VITAE

William Chi Shing TAI

Academic Qualifications

Ph.D. in Biology (Molecular and Cellular Biology), The Hong Kong University of Science and Technology, Hong Kong, HKSAR, 2004.

B.Sc. in Medical Microbiology and Immunology, The University of Wisconsin – Madison, Wisconsin, USA, 1998

Present Academic Position

2010 – present, Research Assistant Professor

School of Chinese Medicine, The Hong Kong Baptist University, Hong Kong, HKSAR.

Previous Research position held:

2006 – 2010, Post-Doctoral Research Fellow

School of Chinese Medicine, The Hong Kong Baptist University, Hong Kong, HKSAR.

Previous Relevant Research Work

Molecular pathogenesis of human cancer and molecular signaling pathways.

Diseases biomarkers discovery and molecular pathogenesis by “-omics” analysis.

Mechanistic study of anti-cancer / anti-hyperlipidemia / anti-inflammatory effects of natural medicines.

Selected publications

1. Law C.K.M., Kowk H.H., Poon P.Y., Lau C.C., Jiang Z.H., **Tai W.C.S.**, Hsiao W.W.L., Mak N.K., Yue P.Y.K., Wong R.N.S. (2014) Ginsenoside compound K induces apoptosis in nasopharyngeal carcinoma cells via activation of apoptosis-inducing factor. *Chinese Medicine* **9:11**
2. Tsui M.K.M., **Tai W.C.S.**, Wong W.Y. and Hsiao W.W.L. (2012) Selective G2/M arrest in a p53Val135-transformed cell line induced by lithium is mediated through an intricate network of MAPK and β -catenin signaling pathways. *Life Sciences* **91:312-321**.
3. Tsang T.F., Ye Y., **Tai W.C.S.**, Chou G.X., Leung A.K.M., Yu Z.L., Hsiao W.W.L. (2011) Inhibition of p38 signaling contributes to the anti-melanogenic activity of Qian-wang-hong-bai-san, a Chinese herbal formula, in B16 cells. *Journal of Ethnopharmacology* **141:622-628**.
4. Wu P.K., **Tai W.C.S.**, Choi R.C.Y., Tsim K.W.K., Zhou H., Liu X., Jiang Z.H. and Hsiao W.W.L. (2011) Chemical and DNA authentication of taste variants of *Gynostemma pentaphyllum* herbal tea *Food Chemistry* **128:70-80**.
5. Wu P.K., **Tai W.C.S.**, Liang Z.T., Zhao Z.Z. and Hsiao W.W.L. (2009) Oleanolic acid isolated from *Oldenlandia diffusa* exhibits a unique growth inhibitory effect against ras-transformed fibroblasts. *Life Sciences* **85:113-121**.
6. Tu L., **Tai W.C.S.**, Chen L. and Banfield D.K. (2008) Signal-mediated dynamic retention of glycosyltransferases in the Golgi. *Science* **321: 404-407**.
7. **Tai W.C.S.**, Banfield D.K. (2001) AtBS14a and AtBS14b two Bet1 / Sft1 - like SNAREs from *Arabidopsis thaliana* that complement mutations in the yeast SFT1 gene. *FEBS Letters* **500: 177-182**.
8. Tsui, M.M.K, **Tai W.C.S.**, and Banfield D.K. (2001) The selective formation of Sed5p-containing SNARE complexes is mediated by combinatorial binding interactions. *Molecular Biology of the Cell* **12: 521-538**.

Grant project as Principle Investigator

1. ERIC-PCR and pyrosequencing analysis of the impact of *Gynostemma* saponins on gut microflora compositions and the host disease status in Apcmin/+ mice. (**GRF, 2013-2015**)
2. Functions of Dickkopf-3 (Dkk3) in ovarian carcinoma tumorigenesis and metastasis. (**GRF, 2012-2014**)
3. Investigation of the roles of the Wnt antagonist Dickkopf-3 (Dkk3) in ovarian cancer in Wnt signaling pathway (**FRG2, 2012 – 2013**)
4. Function of Golgi Phosphoprotein 3 (GOLPH3) in Wnt signaling in ovarian cancer tumorigenesis and metastasis. (**FRG2, 2013-2014**)
5. Preclinical evaluation of mechanistic study of two novel HMG-CoAR inhibitors isolated from herbal tea (**MPCF, 2013-2015**)

Patents

Hsiao W.W.L., **Tai W.C.S.**, Jiang Z.H. “Using a novel high-throughput yeast cell-based screening platform to identify HMG-CoA reductase inhibitors from natural products” 2013 US provisional patent US61/597,162.