



## 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  $\beta$ -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.