

CURRICULUM VITAE of Dr. TSE KAI-WING (anfernee@hkbu.edu.hk)

Academic qualifications:

1996-1999	B.Sc. in Applied Biology (1 st Class Honor)	City University of Hong Kong
1999-2002	MPhil in Biochemistry	City University of Hong Kong
2003-2007	PhD in Biochemistry	City University of Hong Kong

Previous employment history:

2007-2008	Post-doc Research Fellow - School of Chinese Medicine, Hong Kong Baptist University, Hong Kong
2008-2011	Post-doc Research Fellow - Moffitt Cancer Center/College of Medicine, University of South Florida, USA

Present academic position:

2012-now	Research Assistant Professor - School of Chinese Medicine, Hong Kong Baptist University, Hong Kong
----------	--

Research Interests

1. Natural compounds and conventional drugs as chemotherapy sensitizing agents for anti-melanoma therapy
2. Identifying and targeting key molecular pathways for hormone receptor
3. Characterization of Hormone Receptors in Death Receptor's Signaling
4. Role of Ribosome Inactivating Protein from Chinese Traditional Medicine in inflammation and anti-cancer therapy

Scientific Publications in the past five years

1. **Tse AK**, Cao HH, Cheng CY, Kwan HY, Yu H, Fong WF, Yu ZL. Indomethacin Sensitizes TRAIL-Resistant Melanoma cells to TRAIL-induced Apoptosis through ROS-mediated Up-regulation of Death Receptor 5 and Down-regulation of Survivin. *J. Invest. Dermatology*, 2014 May;134(5):1397-407.
2. **Tse AK**, Chow KY, Cao HH, Cheng CY, Kwan HY, Yu H, Zhu GY, Wu YC, Fong WF, Yu ZL. The Herbal Compound Cryptotanshinone Restores Sensitivity in Cancer Cells that are Resistant to the Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand. *J Biol Chem*. 2013 Oct 11;288(41):29923-29933.
3. **Tse AK**[#], Yang Y[#], Li P, Ma Q, Xiang S, Nicosia SV, Seto E, Zhang X, Bai W. Inhibition of androgen receptor activity by histone deacetylase 4 through receptor SUMOylation. *Oncogene*. 2011 May 12;30(19):2207-18. [#] Equally contributed
4. Cao HH, **Tse AK**, Kwan HY, Cheng CY, Su T, Fong WF, Yu ZL. Quercetin Exerts Anti-melanoma Activities and Inhibits STAT3 Signaling. *Biochem Pharmacol*. 2014 Feb 1;87(3):424-34.
5. Cheng BC, Ma XQ, Kwan HY, **Tse KW**, Cao HH, Su T, Yu ZL. An herbal formula consisting of Rosae Multiflorae Fructus and Lonicerae Japonicae Flos inhibits inflammatory mediators in LPS-stimulated RAW 264.7 macrophages. *J Ethnopharmacol*. 2014, 2014 May 14;153(3):922-7.
6. Kwan HY, Chao XJ, Su T, Fu XQ, **Tse AK**, Fong WF, Yu ZL. The anti-cancer and anti-obesity effects of Mediterranean diet. *Crit Rev Food Sci Nutr*. 2013, in press.
7. Kwan HY, Hu YM, Chan CL, Cao HH, Cheng CY, Pan SY, **Tse KW**, Wu YC, Yu ZL, Fong WF.

- Lipidomics Identification of Metabolic Biomarkers in Chemically Induced Hypertriglyceridemic Mice. *J Proteome Res.* 2013 Mar 1;12(3):1387-98.
8. Kasiappan R, Shen Z, **Tse AK**, Jinwal U, Tang J, Lungchukiet P, Sun Y, Kruk P, Nicosia SV, Zhang X, Bai W. 1,25-Dihydroxyvitamin D3 suppresses telomerase expression and human cancer growth through microRNA-498. *J Biol Chem.* 2012 Nov 30;287(49):41297-309.
 9. Zhu GY, Li YW, **Tse AK**, Hau DK, Leung CH, Yu ZL, Fong WF. 20(S)-Protopanaxadiol, a metabolite of ginsenosides, induced cell apoptosis through endoplasmic reticulum stress in human hepatocarcinoma HepG2 cells. *Eur J Pharmacol.* 2011 Oct 1;668(1-2):88-98.
 10. **Tse AK**, Zhu GY, Wan CK, Shen XL, Yu ZL, Fong WF. 1alpha,25-Dihydroxyvitamin D3 inhibits transcriptional potential of nuclear factor kappa B in breast cancer cells. *Mol Immunol.* 2010 May;47(9):1728-38.
 11. Wan CK, **Tse AK**, Yu ZL, Zhu GY, Wang H, Fong DW. Inhibition of cytochrome P450 3A4 activity by schisandrol A and gomisin A isolated from Fructus Schisandrae chinensis. *Phytomedicine.* 2010 Jul;17(8-9):702-5.
 12. Wong TP, Law YL, **Tse AK**, Fong WF, Yu KN. Influence of Magnolol on the bystander effect induced by alpha-particle irradiation. *Appl Radiat Isot.* 2010 Apr-May;68(4-5):718-21.

Currently Funded External Competitive Research Grants

1. Health and Medical Research Fund, Food and Health Bureau, Hong Kong. Title: "Evaluation and Characterization of the Inflammatory Properties of Ribosome Inactivating Protein Momorcharin derived from Momordica charantia", Funded: HK\$ 825,600, **PI**, Duration: Mar/2014 – Feb/2016
2. 深圳市技术研究开发计划-基础研究项目. Title: "二花营实方的抗炎活性及其分子机制研究", Funded: RMB\$ 200,000, **Co-PI**, Duration: Jun/2013 – May/2015

Currently Funded HKBU Research Grants

1. Start-up grants for new academics, Hong Kong Baptist University. Funded: HK\$ 120,000, **PI**, Duration: Apr/2012 – Aug/2015
2. Faculty Research Grant I, Hong Kong Baptist University. Title: "Investigation of the Role of ROS in the Enhancement Effects of Tanshinones on TRAIL-induced Apoptosis in Melanoma Cells", Funded: HK\$ 50,000, **PI**, Duration: Sep/2013 – Aug/2014
3. Faculty Research Grant I, Hong Kong Baptist University. Title: "Elucidating the Roles of Vitamin D Receptor on TRAIL Signaling in Melanoma", Funded: HK\$ 50,000, **PI**, Duration: Feb/2014 – Jan/2015
4. Faculty Research Grant II, Hong Kong Baptist University. Title: "Mechanistic and functional studies of IKK inhibitors as sensitizing agents for anti-melanoma alkylating drugs", Applied Amount: HK\$ 120,000, **PI**, Proposed starting date: Jun/2014 – May/2015, 1 year