

## Full Curriculum Vitae from Kalin Yanbo ZHANG

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### Dr Yanbo ZHANG (張艷波)

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### CONTACT INFORMATION

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### ACADEMIC QUALIFICATION

2001-2003 Ph.D. Department of Biochemistry, The Chinese University of Hong Kong, HK  
1998-2000 M.Phil. Department of Biology, Hong Kong Baptist University, HK  
1978-1982 B.Sc. Chinese Pharmacy, Liaoning University of Chinese Medicine, China

### CURRENT POSITION

2006-present Assistant Professor School of Chinese Medicine, The University of Hong Kong

### WORK EXPERIENCE

2005-2006 Senior Research Assistant School of Chinese Medicine, HKU  
2004-2005 Postdoctoral fellow Department of Biochemistry, The Chinese University of Hong Kong, HK  
1991-1998 Associate Professor Department of Pharmacognosy, China Pharmaceutical University, China

### RESEARCH INTEREST

- Methodology study of quality analysis on the Chinese medicines (MQCM) by molecular biology and chemistry: MQCM is very important for insuring the therapy effect of Chinese medicine. However, there is no a proper approach to control quality and security on the Chinese medicines so far. The research will focus on scientific methodology explorations including molecular biology and chemistry.
- Screening bioactive components of Chinese medicines for Alzheimer's disease (AD) and Parkinson's disease (PD): AD is a progressive neurodegenerative disease. Aging is the most common factor. There is still no cure for AD. This study is aimed to screen bioactive components in CMF for anti-AD. The technologies include molecular biology, protein analysis.

### TEACHING SUBJECT

1) Chinese Medicines; 2) Pharmacology of Chinese Medicines; 3) Modern Analysis Technology and Quality Control of Chinese Medicines

### CLINIC SERVICE

Dr Zhang is specialized in the management and Dispensing of Clinical Dispensary of Chinese Medicines

### SELECTED PUBLICATION

1. Yau Lam, Chi Wing Sze, Tong Yao, Tzi Bun Ng, Pang Chui Shaw, **Yanbo Zhang**\*. A review of the potential issues of pollution caused by the Mineral elements, Mercury, Lead and Arsenic, its possible impacts on the human beings and the suggested solutions. Chinese Medicine. 2012, Sep. Accepted.

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2. Liu JY, KF Lee, Sze CW, Tong Yao, Tang CW, Ng TB, **Zhang YB\***. Experimental studies on intestinal absorption and bioavailability of traditional Chinese medicines: Recent progress and implication for quality control. *Journal of pharmacy and pharmacology*. Aug 5, 2012. Accepted.
3. Song JX, Shaw PC, Wong NS, Sze CW, Yao XS, Tang CW, Tong Y, **Zhang YB\***. Chrysotoxine, a novel bibenzyl compound selectively antagonizes MPP(+), but not rotenone, neurotoxicity in dopaminergic SH-SY5Y cells. *Neurosci Lett*. 2012 Jul 11; 521(1):76-81.
4. Liu JY, Cai YZ, Wong RNS, Lee KF, Tang CY, Sze CW, Tong Y, **Zhang YB\***. Comparative Analysis of Caffeoylquinic Acids and Lignans in Roots and Seeds among Various Burdock (*Arctium lappa*) Genotypes with High Antioxidant Activity. *J Agri Food Chem* 2012 April; 60 (16): 4067-75.
5. Ng TB, Liu JY, Wong H, Ye XJ, Sze CW, Tong Y, **Zhang YB\***. Review of research on Dendrobium, a prized folk medicine. *Appl Microbiol Biotechnol* 2012 Mar; 93:1795-803.
6. Song JX, Choi YM, Wong CK, Chung WY, Ho KL, Sze CW, Ng TB, **Zhang YB\***. Baicalein antagonizes rotenone-induced apoptosis in dopaminergic SH-SY5Y cells. *Chinese Medicine* 2012 Jan 21; 7(1): 1-9.
7. Song JX, Sze CW, Ng TB, Lee KF, Leung PH, Shaw PC, Tong Y, **Zhang YB\***. Anti-parkinsonian drug discovery from herbal medicines: what have we got from neurotoxic models. *Journal of Ethnopharmacology*. 2012 Feb 15; 139(3): 698-711. (IF: 2.466)
8. Lin X, Song JX, Shaw PC, Ng TB, Ricky Wong NS, Stephen Sze CW, Tong Y, Lee KF, **Zhang YB\***. Dendrobium officinale polysaccharides ameliorate the abnormality of aquaporin 5, pro-inflammatory cytokines and inhibit apoptosis in the experimental Sjögren's syndrome mice. *Int Immunopharmacol*. 2011 Sep; 11(12): 2025-32.
9. Ye XJ, Ng TB, Fang EF, Wong J, Pan W, Sze CW, **Zhang, YB\***. A Protein from Red Cabbage (*Brassica oleracea*) Seeds with Antifungal, Antibacterial and Anticancer Activities. *J Agric Food Chem*. 2011 Aug; 59(18): 10232-8.
10. Lin X, Song JX, Shaw PC, Ng TB, Wong NS Ricky, Stephen Sze CW, Tong Y, Lee KF, **Zhang YB\***. An Autoimmunized Mouse Model Recapitulates Key Features in the Pathogenesis of Sjögren's Syndrome. *Int Immunol*. 2011 Oct; 23(10): 613-24.
11. Ng TB, Ye XJ, Wong JH, Fang EF, Chan YS, Pan W, Ye XY, Sze SC, **Zhang YB**, Liu F, Wang HX\*. Glyceolin, a soybean phytoalexin with medicinal properties. *Appl Microbiol Biotechnol* 2011 Apr, 90(1): 59-68.
12. Jack Wong H, Lina Peng, Jiang Y, Li Q, Wang HX, Liu F, Sze CW, **Zhang YB**, Lv XX, Ng TB\*. Cordymin, an antifungal peptide from the medicinal fungus *Cordyceps militaris*. *Phytomedicine* 2011 May, 18: 387-392.
13. Xiao L, Ng TB, Feng YB, Yao T, Wong H, Yao RM, Li L, Mo FZ, Xiao Y, Shaw PC, Li ZM, Sze CW, **YB Zhang\***. Dendrobium candidum Extract Increases the Expression of Aquaporin 5 in Labial Glands from Patients with Sjögren's Syndrome. *Phytomedicine* 2011 Jan 15;18(2-3):194-8.
14. Song JX, Lin X, Wong RN, Sze SC, Tong Y, Shaw PC, **Zhang YB\***. Protective effects of dibenzocyclooctadiene lignans from *Schisandra chinensis* against beta-amyloid and homocysteine neurotoxicity in PC12 cells. *Phytother Res* 2011 Mar, 25(3): 435-43.
15. Song JX, Shaw PC, Sze CW, Tong Y, Yao XS, Ng TB, **Zhang YB\***. Chrysotoxine, a novel bibenzyl compound, inhibits 6-hydroxydopamine induced apoptosis in SH-SY5Y cells via mitochondria protection and NF- $\kappa$ B modulation. *Neurochem Int*. 2010 Nov;57(6):676-89.
16. Wong JH, Ng TB\*, Jiang Y, Liu F, Cho S, Sze W, **Zhang YB**. Purification and Characterization of a Laccase with Inhibitory Activity toward HIV-1 Reverse Transcriptase and Tumor Cells from an Edible Mushroom (*Pleurotus cornucopiae*). *Protein Pept Lett* 2010 Aug, 17(8):1040-7.
17. Lin X, Sze CW, Tong Y, Zhang ZJ, Feng YB, Chen JP, Ng TB, Xiao L, Shaw PC, and **YB Zhang\***. Protective effect of *Dendrobium officinale* polysaccharides on experimental Sjögren's Syndrome. *J Complement Integr Med* 2010 Mar, 17(1): 1-18 (article 14).
18. Song JX, Ge J, Zhuo YH, Li YQ, Duan YH, Sze CW, Tong Y, Shaw PC, Ng TB, Tsui KC, **Zhang YB\***. Protective effect of Bilberry (*Vaccinium myrtillus*) extracts on cultured human corneal epithelial cells (HCEC). *Phytother Res*. 2010, 24: 520-4.

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19. Wong JH, Ng TB, **Zhang YB**, Sze SC, Wang HX\*. Isolation of a mitogenic agglutinin with relatively high thermostability from seeds of the variegated shell ginger. *Protein Pept Lett.* 2010 Jan, 17(1):38-43.
20. Huang WY\*, Cai YZ, **Zhang YB**. Natural Phenolic Compounds from Medicinal Herbs and Dietary Plants: Potential Use for Cancer Prevention. *Nutrition and Cancer* 2009 Dec, 62(1): 1-20.
21. Ye X, Feng Y\*, Tong Y, Ng KM, Tsao GSW, Sze CW, **Zhang Y**, Shen J. Kobayashi S. Hepatoprotective effects of Coptidis Rhizoma aqueous extract on carbon tetrachloride-induced acute liver hepatotoxicity in rats, In: R. Verpoorte. *J Ethnopharmacol.* 2009 Jul, 124(1): 130-6.
22. Sze CW, **Zhang YB**, Zhang ZJ, Lau ASL, Ng TB, Fang ZQ, Tong Y\*. A Novel Mechanism: Erxian Decoction, a Herbal Preparation for Peri-menopausal Syndrome. *J Ethnopharmacol.* 2009, 123(1): 27-33.
23. Sze CW, Song JX, Chang CC, Wong NS, Tong Y, **Zhang YB**\*. Research Advances on the Anti-aging Profile of Fructus lycii: an Ancient. *J Complement Integr Med.* 2008, 5(1): 1-17.
24. Stephen Sze CW, Song JX, Ricky Wong NS, Ng TB, Tong Y, **Kalin Zhang YB**\*. Application of sequence characterized amplified region (SCAR) analysis to authenticate *Lycium barbarum* and its adulterants. *Biotechnol Appl Biochem* 2008 Sep; 51(Pt 1):15-21.
25. Ren H, Chen JP\*, Tan BY, Wang DM, Lin SH, **Zhang YB**, Yang DP, Loo TY Wings, Yeung HS Barry, Jin MZ, Li XF. The Disposition and pharmacokinetics of Dioscorea nipponica Makino extract in rats. *Afr J Biotechnol* 2008, 7(22): 4015-8.
26. Yuan HN, Wang CY, Sze CW, Tong Y, Tan QR, Feng XJ, Liu RM, Zhang JZ, **Zhang YB**, Zhang ZJ\*. A Randomized Crossover Comparison of Herbal Medicine and Bromocriptine against Risperidone-Induced Hyperprolactinemia in Patients with Schizophrenia. *J Clin Psychiatry* 2008, 28(3): 1-7.
27. Sze CW, **Zhang YB**, Shaw PC, But PPH, Ng TB, Tong Y\*. A DNA microarray for identification of Fengdou Shihu (*Dendrobium officinale*) by 5S ribosomal DNA intergenic spacer region. *Biotechnol Appl Biochem* 2008 Feb;49(Pt 2):149-54.
28. **Zhang YB**, Jiang RW, Li SL, Qiao CF, Han QB, Xu HX, Wong KL, But PPH, Shaw PC\*. Chemical and Molecular Identification of Hong Dangshen, A Unique Medicinal Material for Diarrhea in Hong Kong. *Chin J Pharm Sci* 2007, 16(13): 202-07.
29. Wei M, Li P, **Zhang YB**, Sze CW, Yang ZL. Anti-Osteoporosis Activity of Naringin in the Retinoic Acid-Induced Osteoporosis Model. *Am J Chin Med* 2007, 35(4): 663-7.
30. Qiao CF, He ZD, Han QB, Xu HX, Jiang RW, Li SL, **Zhang YB**, But PPH, Shaw PC\*. The use of lobetyolin and HPLC-UV fingerprints for quality assessment of Radix Codonopsis. *J Food Drug Anal* 2007, 15(3): 1-7.

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