

## Dr. Jessica Yan-hong LI (MD, PhD)

Dr Li received her Bachelor and Master Degrees on Western Medicine from Tongji Medical College of Huazhong University of Science and Technology. She received her PhD degree on Pharmacology from The Chinese University of Hong Kong. She has extensive research experiences in Pharmacology (including Clinical Pharmacology), Toxicology and Drug-herb interactions. She has had 18 journal publications as first/corresponding author and 2 publications as co-author. She has undertaken 26 research projects and acted as principal investigator in 7 out of all.

### Selected publications

#### *SCI journal publication*

1. **Li YH**, Xiao HT, Hu DD, Fatima S, Lin CY, Mu HX, Lee NP, Bian ZX. Berberine ameliorates chronic relapsing dextran sulfate sodium-induced colitis in C57BL/6 mice by suppressing Th17 responses. *Pharmacol Res.* 2016. pii: S1043-6618(16)30090-1. doi: 10.1016/j.phrs.2016.02.010. (SCI 2014 Impact factor 4.408)
2. **Li YH**, Zhan M, Fu HB, Ho A, Lin CY, Huang Y, Lin G, Bian ZX. Addition of berberine to 5-aminosalicylic acid for treatment of DSS-induced colitis in C57BL/6 mice. *PLoS One.* 2015; 10(12):e0144101. (SCI 2014 Impact Factor 3.234)
3. Hu DD, Han QB, Zhong LL, **Li YH**, Lin CY, Ho HM, Zhang M, Lin SH, Zhao L, Huang T, Mi H, Tan HS, Xu HX, Bian ZX. Simultaneous determination of ten compounds in rat plasma by UPLC-MS/MS: Application in the pharmacokinetic study of Ma-Zi-Ren-Wan. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015; 1000:136-46. (SCI 2013 Impact factor 2.971)
4. **Li YH**, Tai WCS, Xue JY, Wong WY, Lu C, Ruan JQ, Li N, Wan TF, Chan WY, Hsiao WL, Lin G. Proteomic study of pyrrolizidine alkaloid-induced hepatic sinusoidal obstruction syndrome in rats. *Chemical Research in Toxicology*, 2015; 28(9):1715-27 (SCI 2013 Impact Factor 4.16)
5. **Li YH**, Kan WL, Li N, Lin G. Development of an in vitro model for the assessment of pyrrolizidine alkaloid-induced hepatotoxicity. *J Ethnopharmacol.* 2013; 150(2):560-567. (SCI 2013 Impact Factor 2.939)
6. **Li YH**, Liu CH, Zhang YQ, Mi SQ, Wang NS. Pharmacokinetics of ferulic acid and potential interactions with Honghua and Clopidogrel in rats. *J Ethnopharmacol.* 2011; 137(1):562-7. (SCI 2011 Impact Factor 3.014)
7. **Li YH**, Wang NS. Antithrombotic effect of Danggui, Honghua and potential drug interaction with clopidogrel. *J Ethnopharmacol.* 2010, 128: 623-628. (SCI 2010 Impact Factor 2.466)
8. **Li YH**, Zhang YQ, Li L, Wang Q, Wang NS. Effect of Danggui and Honghua on cytochrome P450 1A2, 2C11, 2E1 and 3A1 mRNA expression in liver of rats. *Am J Chinese Med.* 2008; 36(6):1071-1081. (SCI 2012 Impact Factor 2.281)
9. **Li YH**, Sun XP, Zhang YQ, Wang NS. The antithrombotic effect of borneol related to its anticoagulant property. *Am J Chinese Med.* 2008; 36(4):719-727. (SCI 2012 Impact Factor 2.281)
10. **Li YH**, Gong PL. Neuroprotective effect of dauricine in cortical neuron culture exposed to hypoxia/hypoglycemia: involvement of correcting perturbed calcium homeostasis. *Can J Physiol Pharmacol.* 2007; 85(6):621-627. (2012 SCI Impact Factor 1.770)

11. **Li YH**, Gong PL. Neuroprotective effects of dauricine on apoptosis induced by transient focal cerebral ischemia in rats via mitochondrial pathway. *Clin Exp Pharmacol Physiol*.2007; 34(3):177-184. (SCI 2012 Impact Factor 2.160)

### *Phase I/II clinical trials publication*

1. **Li YH**, Gong PL, Hou XH, Chen J, Liu NZ, Tian DA, Tang FA, Feng CW, Yang YX, Li HB. Itopride in treatment of 104 patients with functional dyspepsia: a randomized, double blind controlled clinical trial. *Chin J New Drugs Clin Rem*.2005; 24(7):524-528. (In Chinese, 46 citation)
2. **Li YH**, Xu R, Gong PL, Zeng FD. Clinical reevaluate the tolerance of marketed drug-Shengmai Drink. *Chin J Pharmacoepidemiol*. 2003; 12 (3):124-126. (In Chinese)

### *Conference presentations*

1. **Li YH**, Bian ZX. Immunomodulatory activity of berberine in alleviating experimental chronic relapsing colitis via inhibition of the JAK/STAT signaling. Outstanding Young Scientist Report in English. The Thirteenth National Congress of Pharmacology and Thirtieth Anniversary of Chinese Pharmacological Society, Beijing, P. R. China. 2-5 November, 2015. (Oral presentation, in English)
2. **Li YH**, Lin G, Huang Y, Bian ZX. Addition of berberine to 5-ASA in dextran sulfate sodium-induced ulcerative colitis in C57BL/6 mice: efficacy, mechanism-of-action, and safety. Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT)-British Pharmacological Society (BPS) Joint Scientific Meeting, Hong Kong, P. R. China. 19-21 May, 2015. (Poster presentation, in English)
3. **Li YH**, Tai WCS, Li N, Hsiao WL, Lin G. Proteomic approach for the identification of biomarkers for pyrrolizidine alkaloid hepatotoxicity (Oral presentation, in English). The 13th Scientific meeting of Hong Kong Pharmacology Society, P. R. China 17 December, 2010.
4. **Li YH**, Wan TF, Li N, Chan WY, Hsiao WL, Lin G. In vivo study the hepatotoxicity of retrorsine, a representative pyrrolizidine alkaloid (Oral presentation, in English). 2010 Hong Kong-Macau Postgraduate Symposium on Chinese Medicine, P. R. China. 12 August, 2010.
5. **Li YH**, Li N, Lin G. Development of an in vitro model for the investigation of pyrrolizidine alkaloid-induced hepatotoxicity (Poster presentation, in English). WorldPharma2010-16<sup>th</sup> World Congress of Basic Clinical Pharmacology, Copenhagen, Denmark. 17-23 July, 2010.
6. **Li YH**, Tai WCS, Li N, Chan WY, Hsiao WL, Lin G. Proteomic study of hepatotoxicity induced by retrorsine, a representative pyrrolizidine alkaloid (Oral presentation, in English). WorldPharma2010-16<sup>th</sup> World Congress of Basic Clinical Pharmacology, Copenhagen, Denmark. 17-23 July, 2010.
7. **Li YH**, Lin G. Development of an in vitro model for the investigation of pyrrolizidine alkaloid induced hepatotoxicity (Poster presentation, in English). 2009 Hong Kong-Macau Postgraduate Symposium on Chinese Medicine, Hong Kong, P. R. China. 13 August, 2009
8. **Li YH**, Wang NS. Model of focal cerebral ischemia in rats (Oral presentation, in Chinese). Symposium between Department of Clinical Pharmacology of Guangzhou Chinese Medicine and

Institute of Chinese Medicine of Chinese University of Hong Kong. Chinese University of Hong Kong, Hong Kong, P. R. China. 8 May, 2008

9. **Li YH**, Sun XP, Ou LJ, Wang NS. Modification and evaluation on the method of preparing focal cerebral ischemia in rats (Oral presentation, in Chinese). The 2<sup>th</sup> World Congress of Chinese Drug Pharmacology of World federation of Chinese Medicine Society. Henan University of Chinese Medicine, Zhengzhou, P. R. China. 3-4 November, 2007
10. **Li YH**, Gong PL. Neuroprotective effect of dauricine in cortical neuron culture exposed to hypoxia/hypoglycemia: involvement of correcting perturbed calcium homeostasis (Poster presentation, in English). National Congress of Pharmacology & Preparation Conference for the 15<sup>th</sup> World Congress of Pharmacology. The Fourth Military Medical University, Xi'an, China. 9-12 May, 2005

### **Selected projects**

1. Shenzhen Municipal Science and Technology Innovation Council basic research projects (**Project Director**) Immunoproteomics study of berberine on Th17/Treg imbalance in experimental ulcerative colitis. 2015-2017.
2. Shenzhen Municipal Science and Technology Innovation Council basic research projects (The *third* member) Investigation of the potential active components of Ma Zi Ren Wan in treating constipation. 2014-2016.
3. Health and Health Services Research Fund (HMRF) 10111971 (**Major member**) Effects of combination of berberine and 5-aminosalicylate (5-ASA) against experimental ulcerative colitis and its potential mechanisms. 2013-2015.
4. Intern of The Morningside Professor Nancy Yuk-Yu IP of Life Science Innovation and Technology Fund Internship Program/The Hong Kong University of Science and Technology and Morningside Life Science Limited **Outstanding Internship**. 2012-2013.
5. The Union Foundation of National Natural Science of China and Guangdong Province U0832008 (The *second* member of Guangdong Province team). The systemic study of actives constituents of Chinese wampee leaf of Lingnan using modern molecular pharmacological techniques. 2009-2012.
6. The National Natural Science Foundation of China 30701100 (The *third* member). The effect of borneol and its analogs on CNS and neurotransmitters. 2008-2010.
7. The Open Foundation of Key Lab for Herbal Drug Efficacy and Safety of Guangdong Provincial Department of Education kf-07002 (**Project Director**) . Drug interaction between clopidogrel and Danggui /Honghua on platelet aggregation. 2007-2008
8. The Natural Science Foundation in Guangdong Province (The *third* member). Effect of borneol on the protein expression of cerebral macro-vascular endothelial cell. 2005-2007.
9. The Innovative Program for Young Teachers (No. 2004-17) of Guangzhou University of Chinese Medicine (**Project Director**) . Effects and action mechanism of borneol on platelet aggregation. 2004-2006.
10. Transversal Research Items-Clinic Trials (**Major member**) . Phase II clinical trial of itopride hydrochloride in treatment of functional dyspepsia. 2001-2004.