

CURRICULUM VITAE of Dr. LIANG ZHITAO (lzt23@hkbu.edu.hk)

Academic qualifications:

- 2000 B.S. China Pharmaceutical University, Nanjing, China
2003 M.S. China Pharmaceutical University, Nanjing, China
2007 Ph.D. Hong Kong Baptist University, Hong Kong

Professional Chronology:

- 03/2008-03/2010 Postdoctoral Fellow, School of Chinese Medicine, Hong Kong Baptist University, Hong Kong
04/2010-03/2015 Research Assistant Professor, School of Chinese Medicine, Hong Kong Baptist University
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Research Fields:

Chinese Materia Medica authentication and quality evaluation of herbal medicines and herbal products

Representative publication in the past five years (* corresponding author):

1. YJ Chen, ZZ Zhao, HB Chen, T Yi, MJ Qin*, **ZT Liang*** (2015). Chemical differentiation and quality evaluation of commercial Asian and American ginsengs based on a UHPLC-QTOF/MS/MS metabolomics approach. *Phytochemical Analysis*. **26**(2): 145-160.
2. **ZT Liang***, YJ Chen, L Xu, MJ Qin, T Yi, HB Chen, ZZ Zhao* (2014). Localization of ginsenosides in the rhizome and root of *Panax ginseng* by laser microdissection and liquid chromatography–quadrupole/time of flight-mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*. **105**: 121-133.
3. L Yi, **ZT Liang** (Co-first author), Y Peng, P Guo, LL Wong, XJ Wan, HM Ho, T Yi, ZZ Zhao*(2015). Histochemical evaluation of alkaloids in rhizome of *Coptis chinensis* using laser microdissection and liquid chromatography/mass spectrometry. *Drug Testing and Analysis*. **7**(6):519-530.
4. YJ Chen, **ZT Liang** (Co-first author), Y Zhu, GY Xie, M Tian, ZZ Zhao*, MJ Qin* (2014). Tissue-specific metabolites profiling and quantitative analyses of flavonoids in the rhizome of *Belamcanda chinensis* by combining laser-microdissection with UHPLC-Q/TOF-MS and UHPLC-QqQ-MS. *Talanta*. **130**: 585-597.

5. **ZT Liang***, KY Oh, YQ Wang, T Yi, HB Chen, ZZ Zhao* (2014). Cell type-specific qualitative and quantitative analysis of saikosaponins in three *Bupleurum* species using laser microdissection and liquid chromatography–quadrupole/time of flight-mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis*. **97**:157-165.
6. **ZT Liang***, J Zhang, LL Wong, T Yi, HB Chen, ZZ Zhao* (2013). Characterization of secondary metabolites from the raphides of calcium oxalate contained in three Araceae family plants using laser microdissection and ultra-high performance liquid chromatography- quadrupole/time of flight-mass spectrometry. *European Journal of Mass Spectrometry*. **19**(3): 195-210.
7. **ZT Liang**, J Zhang, GY Yang, HB Chen, ZZ Zhao* (2013). Chemical profiling and histochemical analysis of *Bupleurum marginatum* roots from different growing areas of Hubei province. *Acta Pharmaceutica Sinica B*. **3**(3): 53-64.
8. **ZT Liang**, TT Sham, GY Yang, L Yi, HB Chen, ZZ Zhao* (2013). Profiling of secondary metabolites in tissues from *Rheum palmatum* L. using laser microdissection and liquid chromatography mass spectrometry. *Analytical and Bioanalytical Chemistry*. **405**(12): 4199-4212.
9. L Yi, **ZT Liang** (Co-first author), Y Peng, X Yao, HB Chen, ZZ Zhao* (2012). Tissue-specific metabolite profiling of alkaloids in *Sinomenii* Caulis using laser microdissection and liquid chromatography-quadrupole/time of flight-mass spectrometry. *Journal of Chromatography A*. **1248**: 93-103.
10. **ZT Liang***, NN Leung, HB Chen, ZZ Zhao* (2012). Quality evaluation of various commercial specifications of *Polygoni Multiflori Radix* and its dregs by determination of active compounds. *Chemistry Central Journal*. **6**(1):53.
11. ZZ Zhao*, **ZT Liang** (2012). The application and advantage of near infrared spectroscopy technology in authentication of Chinese Materia Medica. *China Journal of Chinese Materia Medica*. **37**(8): 1062-1065
12. ZZ Zhao*, **ZT Liang**, P Guo (2011). Macroscopic identification of Chinese medicinal materials: traditional experiences and modern understanding. *Journal of Ethnopharmacology*. **134**(3): 556-564.
13. **ZT Liang**, YX Shi, HB Chen, ZZ Zhao* (2011). Histochemical analysis of the root tuber of *Polygonum multiflorum* Thunb. (Fam. Polygonaceae). *Microscopy Research and Technique*. **74**(6): 488-495.
14. ZZ Zhao*, **ZT Liang**, K Chan, GH Lu, ELM Lee, HB Chen, L Li (2010). A Unique Issue in the Standardization of Chinese Materia Medica: Processing. *Planta Medica*. **76**(17):1975-1986.

15. **ZT Liang**, HB Chen, ZL Yu, ZZ Zhao* (2010). Comparative analysis of raw and processed Radix Polygoni Multiflori by high performance liquid chromatographic fingerprint and mass spectrometry. *Chinese Medicine*. **5**: 29-36.