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中華民國國立臺灣大學 | 藥學博士 2008-2014

中華民國國立臺灣大學 | 藥學士 2004-2008

## 專長

藥物分析、代謝體學

## 現職

國立陽明大學 | 藥學系 | 助理教授 2019年8月迄今

## 經歷

國立臺灣大學 | 藥學所 | 博士後研究員 2014年4月至2017年9月

美國伊利諾大學厄巴納-香檳分校 | 化學系 | 訪問學者 2017年9月

至2019年6月

## 著作

1. Chiu HH, **Liao HW**, Shao YY, Lu YS, Lin CH, Tsai IL, Kuo CH. Development of a general method for quantifying IgG-based therapeutic monoclonal antibodies in human plasma using protein G purification coupled with a two internal standard calibration strategy using LC-MS/MS. Anal Chim Acta. 2018 Aug 17;1019:93-102
2. **Liao HW**, Lin SW, Lin YT, Lee CH, Kuo CH. Identification of potential

- sphingomyelin markers for the estimation of hematocrit in dried blood spots via a lipidomic strategy. *Anal Chim Acta*. 2018 Mar 20;1003:34-41.
3. Chen GY, Chao HC, **Liao HW**, Tsai IL, Kuo CH. Rapid quantification of glutaminase 2 (GLS2)-related metabolites by HILIC-MS/MS. *Anal Biochem*. 2017 Dec 15;539:39-44.
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  5. Chepyala D, Tsai IL, **Liao HW**, Chen GY, Chao HC, Kuo CH. Sensitive screening of abused drugs in dried blood samples using ultra-high-performance liquid chromatography-ion booster-quadrupole time-of-flight mass spectrometry. *J Chromatogr A*. 2017 Mar 31;1491:57-66.
  6. **Liao HW**, Chen GY, Wu MS, Liao WC, Lin CH, Kuo CH. Development of a Postcolumn Infused-Internal Standard Liquid Chromatography Mass Spectrometry Method for Quantitative Metabolomics Studies. *J Proteome Res*. 2017 Feb 3;16(2):1097-1104.
  7. **Liao HW**, Lin SW, Chen GY, Kuo CH. Estimation and Correction of the Blood Volume Variations of Dried Blood Spots Using a Postcolumn Infused-Internal Standard Strategy with LC-Electrospray Ionization-MS. *Anal Chem*. 2016 Jun 21;88(12):6457-64.
  8. Sun HY, **Liao HW**, Sheng MH, Tai HM, Kuo CH, Sheng WH. Bioequivalence and in vitro antimicrobial activity between generic and brand-name levofloxacin. *Diagn Microbiol Infect Dis*. 2016 Jul;85(3):347-351.
  9. Chao HC, **Liao HW**, Kuo CH. Using water plug-assisted analyte focusing by micelle collapse in combination with microemulsion electrokinetic chromatography for analyzing phthalate esters. *J Chromatogr A*. 2016 May 6;1445:149-57.
  10. Chen GY, **Liao HW**, Tsai IL, Tseng YJ, Kuo CH. Using the matrix-induced ion suppression method for concentration normalization in cellular metabolomics studies. *Anal Chem*. 2015 Oct 6;87(19):9731-9.
  11. Wu PF, Lin CH, Kuo CH, Chen WW, Yeh DC, **Liao HW**, Huang SM, Cheng AL, Lu YS. A pilot study of bevacizumab combined with etoposide and cisplatin in breast cancer patients with leptomeningeal carcinomatosis. *BMC Cancer*. 2015 Apr 17;15:299.
  12. Chen GY, **Liao HW**, Tseng YJ, Tsai IL, Kuo CH. A matrix-induced ion suppression method to normalize concentration in urinary metabolomics studies

- using flow injection analysis electrospray ionization mass spectrometry. *Anal Chim Acta*. 2015 Mar 15;864:21-9.
13. **Liao HW**, Chen GY, Wu MS, Liao WC, Tsai IL, Kuo CH. Quantification of endogenous metabolites by the postcolumn infused-internal standard method combined with matrix normalization factor in liquid chromatography-electrospray ionization tandem mass spectrometry. *J Chromatogr A*. 2015 Jan 2;1375:62-8.
  14. **Liao HW**, Tsai IL, Chen GY, Lu YS, Lin CH, Kuo CH. Quantification of target analytes in various biofluids using a postcolumn infused-internal standard method combined with matrix normalization factors in liquid chromatography-electrospray ionization mass spectrometry. *J Chromatogr A*. 2014 Sep 5;1358:85-92.
  15. **Liao HW**, Chen GY, Tsai IL, Kuo CH. Using a postcolumn-infused internal standard for correcting the matrix effects of urine specimens in liquid chromatography-electrospray ionization mass spectrometry. *J Chromatogr A*. 2014 Jan 31;1327:97-104.
  16. Tsai DM, Kang JJ, Lee SS, Wang SY, Tsai IL, Chen GY, **Liao HW**, Wei-Chu L, Kuo CH, Tseng YJ. Metabolomic analysis of complex chinese remedies: examples of induced nephrotoxicity in the mouse from a series of remedies containing aristolochic Acid. *Evid Based Complement Alternat Med*. 2013;2013:263757.
  17. Tseng YJ, Kuo CT, Wang SY, **Liao HW**, Chen GY, Ku YL, Shao WC, Kuo CH. Metabolomic characterization of rhubarb species by capillary electrophoresis and ultra-high-pressure liquid chromatography. *Electrophoresis*. 2013 Oct;34(19):2918-27.
  18. **Liao HW**, Tsai IL, Chen GY, Kuo CT, Wei MF, Hwang TJ, Chen WJ, Shen LJ, Kuo CH. Simultaneous detection of single nucleotide polymorphisms and copy number variations in the CYP2D6 gene by multiplex polymerase chain reaction combined with capillary electrophoresis. *Anal Chim Acta*. 2013 Feb 6;763:67-75.
  19. **Liao HW**, Lin SW, Wu UI, Kuo CH. Rapid and sensitive determination of posaconazole in patient plasma by capillary electrophoresis with field-amplified sample stacking. *J Chromatogr A*. 2012 Feb 24;1226:48-54.
  20. Tsai IL, Sun SW, **Liao HW**, Lin SC, Kuo CH. Rapid analysis of melamine in infant formula by sweeping-micellar electrokinetic chromatography. *J Chromatogr A*. 2009 Nov 20;1216(47):8296-303.