



姓名：蔡東湖

職稱：國立陽明大學，醫學院，傳統醫藥所教授  
國立聯合大學教授兼校長

學歷

年份  
臺北醫學大學藥學系藥學士（1983年～1987年）  
國立陽明大學藥理所藥理學碩士（1987年～1989年）  
國立陽明大學藥理所藥理學博士（1992年～1995年）  
英國劍橋大學實驗心理系博士後研究（1996年～1997年）

工作經歷

年份  
國立陽明大學 藥理學科講師（1991年～1996年）  
國立陽明大學 藥理所副教授（1996年～2002年）  
國立中國醫藥研究所 研究員兼組長（1999年～2005年）  
國立陽明大學 傳統醫藥學研究所教授（2002年～）  
臺北榮民總醫院 兼任研究員（2005年～）  
中國醫藥大學 針灸研究所兼任教授（2005年～）  
臺北市立聯合醫院教學研究部研究發展組主任（2006年～2011年）  
國立陽明大學 傳統醫藥學研究所教授兼所長（2009年～2015年）  
國立陽明大學 國際事務處副國際長（2010年8月～2010年12月）  
臺北市立聯合醫院教學研究部主任（2011年～2015年）  
高雄醫藥大學 藥學系合聘教授（2014年～2019年）

研究及專長

藥理學、藥物動力學、藥物分析

發表文獻

發表學術資訊：（國內外學術論文、研討會、專利）

1. Tsai, T.H., Chen, C.F. (1991) Determination of three active principles in licorice extract by reversed-phase high-performance liquid Chromatography. Journal of Chromatography. 542:521-525. (SCI)
2. Tsai, T.H., Chen, C.F. (1991) High-performance liquid chromatographic determination of 18-alpha-glycyrrhetic acid and 18-beta-glycyrrhetic acid in rat plasma: application to pharmacokinetic study. Journal of Chromatography. 567:405-414. (SCI)
3. Tsai, T.H., Chen, C.F. (1991) Atlas of Chromatograms of glycyrrhizin, 18-alpha-glycyrrhetic acid and 18-beta-glycyrrhetic acid from licorice. Journal of Chromatography Science. 29:368. (SCI)

4. Tsai, T.H., Chen, C.M., Chen, C.F. (1992) Disposition of asarone after intravenous administration to rabbits assessed using HPLC. *Journal of Pharmacy and Pharmacology*. 44:620-623. (SCI)
5. Tsai, T.H., Liao, J.F., Yang, H.Y., Chen, C.F. (1992) Effects of licorice and its active principles on carrageenan-induced edema of the rat hind-paw. *Journal of Chinese Medicine*. 3:33-39.
6. Tsai, T.H., Chen, C.F. (1992) Ultraviolet spectrum identification of ferulic acid in rabbit plasma by HPLC and its pharmacokinetics application. *International Journal Pharmaceutics*. 80: 75-79. (SCI)
7. Tsai, T.H., Chen, C.F. (1992) Ultraviolet spectrum identification of emodin in rabbit plasma by HPLC and its pharmacokinetics application. *Asia Pacific Journal of Pharmacology*. 7: 53-56. (SCI)
8. Tsai, T.H., Chen, C.F. (1992) Determination of glycyrrhizin in rabbit plasma by high-performance liquid chromatography with photodiode-array ultraviolet detection and its pharmacokinetics application. *Journal of Chromatography*. 576: 170-173. (SCI)
9. Tsai, T.H., Chen, C.F. (1992) Identification and determination of honokiol and magnolol from *Magnolia officinalis* by high-performance liquid chromatography with photodiode-array UV detection. *Journal of Chromatography*. 598: 143-146. (SCI)
10. Tsai, T.H., Liao, J.F., Shum A.Y.C., Chen, C.F. (1992) Pharmacokinetics of glycyrrhizin after intravenous administration to rats. *Journal of Pharmaceutical Sciences*. 81: 961-963. (SCI)
11. Tsai, T.H., Shen, C.C., Chen, C.F. (1992) Determination and ultraviolet spectrum identification of 18- $\alpha$ -glycyrrhetic acid and 18- $\beta$ -glycyrrhetic acid for stability studies. *International Journal of Pharmaceutics*. 84: 279-281. (SCI)
12. Tsai, T.H., Chou, C.J., Lin, L.C., Tsai, W.J., Chen, C.F. (1993) Determination of aristolochic acid in rabbit plasma by high-performance liquid chromatography with photodiode array ultraviolet detection and its pharmacokinetics application. *Journal of Liquid Chromatography*. 16: 1173-1182. (SCI)
13. Peng, Y.T., Shum, A.Y.C., Tsai, T.H., Lin, L.C., Chen, C.F. (1993) High-performance liquid chromatography of the quinazolinocarboline alkaloid dehydroevodiamine. *Journal of Chromatography*. 617: 87-93. (SCI)
14. Tsai, T.H., Chen, C.F. (1994) Simultaneous measurement of acetylcholine and monoamines by two serial on-line microdialysis systems: effects of methamphetamine on neurotransmitters release from the striatum of freely moving rats. *Neuroscience Letters*. 166: 175-177. (SCI)
15. Tsai, T.H., Westly, J., Lee, T.F., Chen, C.F. (1994) Identification and determination of geniposide, genipin, gardenoside and geniposidic acid from herbs by HPLC/photodiode-array detection. *Journal of*

Liquid Chromatography. 17: 2199-2205. (SCI)

16. Cheng, F.C., Kuo, J.S., Chia, L.G., Tsai, T.H., Chen, C.F. (1994) Rapid measured of the monoamine content in small volumes of rat plasma. *Journal of Chromatography B.* 654: 177-183. (SCI)

17. Tsai, T.H., Chou, C.J., Cheng, F.C., Chen, C.F. (1994) Pharmacokinetics of honokiol after intravenous administration in rats assessed using high-performance liquid chromatography. *Journal of Chromatography B.* 655: 41-45. (SCI)

18. Ko, H.C., Tsai, T.H., Chou, C.J., Hsu, S.Y., Li, S.Y., Chen, C.F. (1994) High-performance liquid chromatographic determination of rutaecarpine in rat plasma: application to pharmacokinetic study. *Journal of Chromatography B.* 655: 27-31. (SCI)

19. Tsai, T.H., Chou, C.J., Chen, C.F. (1994) Disposition of magnolol after intravenous bolus and infusion in rabbit. *Drug Metabolism and Disposition.* 22: 518-521. (SCI)

20. Tsai, T.H., Chou, C.J., Chen, C.F. (1994) Pharmacokinetics of paeonol after intravenous administration to rats. *Journal of Pharmaceutical Sciences.* 83: 1307-1309. (SCI)

21. Lee, T.F., Tsai, T.H., Chen, C.F., Wang, L.C.H. (1994) Thermoregulatory effects after intracerebroventricular injections of wu-chu-yu extracts in rats. *Thermal Balance in Health and Disease.* 136: 481-484.

22. Tsai, T.H., Lee, T.F., Chen, C.F., Wang, L.C.H. (1995) Thermoregulatory effects of alkaloids isolated from wu-chu-yu in afebrile and febrile rats. *Pharmacology Biochemistry and Behavior.* 50: 293-298. (SCI)

23. Shyr, M.H., Tsai, T.H., Tan, P.P.C., Chen, C.F., Chan, S.H.H. (1995) Concentration and regional distribution of propofol in brain and spinal cord during propofol anesthesia in the rat. *Neuroscience Letters.* 184: 212-215. (SCI)

24. Tsai, T.H., Lee, T.F., Chen, C.F., Wang, L.C.H. (1995) Modulatory effects of magnolol on potassium stimulated 5-HT release from rat cortical and hippocampal slices. *Neuroscience Letters.* 186: 49-52. (SCI)

25. Tsai, T.H., Tsai, W.J., Chou, C.J., Chen, C.F. (1995) Magnolol inhibits collagen-induced platelet serotonin release. *Thrombosis Research.* 78: 265-270. (SCI)

26. Tsai, T.H., Tsai, W.J., Chou, C.J., Chen, C.F. (1995) Inhibition by honokiol of collagen-induced platelet 5-HT release. *Pharmaceutical Sciences.* 1: 243-245.

27. Tsai, T.H., Chou, C.J., Chen, C.M., Chen, C.F. (1995) Determination of magnolol in rat plasma by HPLC/fluorescence. *Chinese Pharmaceutical Journal.* 47:207-212.

28. Jeng, K.F., Lin, Y.H., Lin, L.C., Chou, C.J., Tsai, T.H., Chen, C.F. (1995) High-performance liquid chromatographic determination of evodiamine in rats plasma: application to pharmacokinetic study. *Journal of Chromatography B*. 668: 343-345. (SCI)
29. Tsai, T.H., Tsai, W.J., Chen, C.F. (1995) Aspirin inhibits collagen-induced platelet serotonin, measured by microbore high-performance liquid chromatography electrochemical detection. *Journal of Chromatography B*. 669: 404-407. (SCI)
30. Tsai, T.H., Westly, J., Lee, T.F., Chen, C.F., Wang, L.C.H. (1995) Effects of honokiol and magnolol on acetylcholine and norepinephrine from rat hippocampal slices. *Planta Medica*. 61: 477-479. (SCI)
31. Tsai, T.H., Chou, C.J., Chen, C.F. (1995) Glucuronidation of magnolol assessed using HPLC/fluorescence. *Planta Medica*. 61: 491-492. (SCI)
32. Chang, A.Y.W., Kuo, T.B.J., Tsai, T.H., Chen, C.F., Chan, S.H.H. (1995) Power spectral analysis of electroencephalographic desynchronization induced by cocaine in rats: correlation with evaluation of noradrenergic neurotransmission at the medial prefrontal cortex. *Synapse*. 21: 149-157. (SCI)
33. Tsai, T.H., Chou, C.J., Chen, C.F. (1996) Pharmacokinetic and brain distribution of magnolol in the rats after intravenous bolus injection. *Journal of Pharmacy and Pharmacology*. 48: 57-59. (SCI)
34. Tsai, T.H.\* , Chou, C.J., Tsai, W.J., Chen, C.F. (1996) Magnolol inhibits arachidonic acid-induced rabbit platelet serotonin release, measure by microbore HPLC with electrochemical detection. *Journal of Liquid Chromatography*. 19: 949-955. (SCI)
35. Tsai, T.H.\* , Hsu, S.Y., Chou, C.J., Tsai, T.R., Chen, C.F. (1996) Determination of dihydro-5,6-dehydrokawain in rat plasma by HPLC and its pharmacokinetics application. *Journal of Liquid Chromatography*. 19: 1127-1137. (SCI)
36. Tsai, T.H., Chen, C.F. (1996) An in vivo microdialysis determination of collagen-induced serotonin release in rat blood. *Journal of Chromatography A*. 730: 121-123. (SCI)
37. Wang, H., Kuo, T.B.S., Chan, S.H.H. Tsai, T.H., Lee, T.Y., Lui, P.W. (1996) Spectral analysis of arterial pressure variability during induction of propofol anesthesia. *Anesthesia and Analgesia*. 82: 914-919. (SCI)
38. Tsai, T.R., Cham, T.M., Chen, K.C., Chen, C.F., Tsai, T.H.\* (1996) Determination of acetylcholine by on-line microdialysis coupled with pre- and post-microbore column enzyme reactors with electrochemical detection. *Journal of Chromatography B*. 678: 151-155. (SCI)
39. Tsai, T.H.\* , Tsai, T.R., Chen, C.C., Chen, C.F. (1996) Determination of osthole in rat plasma by HPLC and its

pharmacokinetics application. *Journal of Pharmaceutical and Biomedical Analysis*. 14: 749-753. (SCI)

40. Tsai, T.H.\* , Tsai, T.R., Chou, C.J., Chen, C.F. (1996)  
Determination of dicentrine in rat plasma by high-performance liquid chromatography and its application to pharmacokinetics. *Journal of Chromatography B*. 681:277-281. (SCI)

41. Tsai, T.H.\* , Chou, C.J., Tsai, T.R., Chen, C.F. (1996)  
Determination of wogonin in rat plasma by HPLC and its Pharmacokinetics application. *Planta Medica*. 62:263-266. (SCI)

42. Chou, C.Y.C., Tsai, T.H., Lin, M.F., Chen, C.F. (1996)  
Simultaneous determination of honokiol and magnolol in *Magnolia officinalis* by capillary zone electrophoresis. *Journal of Liquid Chromatography*. 19:1909-1915. (SCI)

43. Wang, Y.H., Hong, C.Y., Chen, C.F., Tsai, T.H.\* (1996)  
Determination of triacylglycerols in *Panax pseudo-ginseng* by HPLC polymeric column. *Journal of Liquid Chromatography*. 19:2497-2503. (SCI)

44. Tsai, T.H.\* , Kuo, K.W., Cheng, F.C., Chen, C.F. (1996)  
Determination of scopolamine in rat plasma by liquid chromatography and its application to pharmacokinetics. *Journal of Liquid Chromatography*. 19:2649-2657. (SCI)

45. Tsai, T.H.\* (1996) The technology and pharmaceutical analysis microbore column liquid chromatography. *Chemistry*. 54:111-117.

46. Tsai, T.H.\* , Chou, C.J., Lee, T.F., Wang, L.C.H., Chen, C.F. (1996)  
Pharmacokinetic and pharmacodynamic studies of magnolol after oral administration in rats. *Pharmaceutical Sciences*. 2:191-193.

47. Wang, Y.H., Hong, C.Y., Chen, C.F., Tsai, T.H.\* (1996)  
Determination of trilinolein in the vasoactive and antithrombotic herbs by HPLC. *Journal of Chinese Medicine*. 7:203-210.

48. Tsai, T.H.\* , Chen, C.F., Cheng, F.C., Kuo, K.W., Tsai, T.R. (1997)  
Analysis and pharmacokinetics of apomorphine in rat brain by microdialysis coupled with microbore HPLC electrochemical detection. *Journal of Liquid Chromatography*. 20:481-490. (SCI)

49. Tsai, T.H.\* , Chen, C.F. (1997) Measurement and pharmacokinetic analysis of buspirone brain microdialysis coupled with electrochemical detection. *Journal of Chromatography A*. 762:269-273. (SCI)

50. Wang, Y.H., Hong, C.Y., Chen, C.F., Tsai, T.H.\* (1997)  
Determination of trilinolein and 1,2-dilinoleoyl-3-oleoyl-glycerol in various *Panax ginseng* by HPLC. *Journal of Liquid Chromatography*. 20:899-905. (SCI)

51. Tsai, T.H.\* , Matthews, C.A., Chen, C.F. (1997) Aromatherapy. *Journal of Chinese Medicine*. 8:23-32.

52. Huang, S.S., Hong, C.Y., Chen, C.F., Tsai, T.H.\* (1997) Identification of magnolol and honokiol in the stem and leave of *Magnolia gradiflora* L. and *Magnolia coco* (Lour.) DC. by liquid chromatography. *Journal of Chinese Medicine*. 8:55-61.
53. Shyr, M.H., Tsai, T.H., Yang, C.H., Chen, H.M., Ng, H.F., Tan, P.P.C. (1997) Propofol anesthesia increases dopamine and serotonin actives at the somatosensory cortex in rats: a microdialysis. *Anesthesia Analgesia*. 84:1344-1348. (SCI)
54. Tsai, T.H.\* , Matthews, K., Dalley, J.W. (1997) Determination of glutamate in rat brain microdialysates by microbore liquid chromatography with electrochemical detection. *Journal of Liquid Chromatography*. 20:3039-3047. (SCI)
55. Tsai, T.H.\* , Hong, C.Y., Chen, C.F. (1997) Analysis of active ingredients in medicine herbs with high-performance liquid chromatography and related technologies: a review. *Journal of Food and Drug Analysis*. 5:303-317. (SCI)
56. Chang, C.C., Huang, H.C., Tsai, T.H., Chen, C.F. (1997) Determination of tetrandrine with high-performance liquid chromatography and its application to pharmacokinetic study in rats. *Journal of Chinese Medicine*. 8:229-236.
57. Wu, Y.S., Ho, W.M., Tsai, T.H., Yang, L.L., Kuo, J.S., Cheng, F.C. (1997) Monitoring of blood catecholamines by microdialysis and microbore liquid chromatography. *Journal of Pharmaceutical and Biomedical Analysis*. 16:77-85. (SCI)
58. Peng, H.W., Huang, Y.T., Chen, C.F., Tsai, T.H.\* (1997) Validation of liquid chromatographic method in herbal medicine analysis. *Journal of Chinese Medicine*. 8:237-244.
59. Tsai, T.H.\* , Chen, C.F. (1997) HPLC assessment of esculetin glucuronidation. *Chinese pharmaceutical Journal*. 49:321-324.
60. Peng, H.W., Cheng, F.C., Huang, Y.T., Chen, C.F., Tsai, T.H.\* (1998) Determination of naringenin and its glucuronide conjugate in rat plasma and brain tissue by high-performance liquid chromatography. *Journal of Chromatography B*. 714:369-374. (SCI)
61. Huang, C.T., Chen, K.C., Chen, C.F., Tsai, T.H.\* (1998) Simultaneous measurement of blood and brain microdialysates of granisetron in rat by high-performance liquid chromatography with fluorescence detection. *Journal of Chromatography B*. 716:251-255. (SCI)
62. Peng, H.W., Huang, Y.T., Chen, C.F., Tsai, T.H.\* (1998) Glucuronidation of naringenin in rat. *Planta Medica*. 64:779. (SCI)
63. Tsai, T.H.\* , Cheng, F.C., Hung, L.C., Chen, C.F. (1998) On-line microdialysis coupled with microbore liquid chromatography to measure chloramphenicol and its glucuronide in rat blood. *Journal of*

Chromatography B. 720:165-169. (SCI)

64. Cheng, F.C., Tsai, T.H.\*, Wu, Y.S., Kuo, J.S., Chen, C.F. (1999) Pharmacokinetic and pharmacodynamic analyses of trazodone in rat striatum by in vivo microdialysis. *Journal of Pharmaceutical and Biomedical Analysis*. 19:293-300. (SCI)
65. Liang, C.C., Hong, C.Y., Chen, C.F., Tsai, T.H.\* (1999) Measurement and pharmacokinetic study of tetramethylpyrazine in rat blood and its regional brain tissue by high-performance liquid chromatography. *Journal of Chromatography B*. 724: 303-309. (SCI)
66. Dalley J.M., Thomas, K.L., Howes, S.R., Tsai, T.H., Aparicio-Legarza, M.I., Reynolds, G.P., Everitt, B.J., Robbins, T.W. (1999) Effects of excitotoxic lesions of the rat prefrontal cortex on CREB regulation and presynaptic markers of dopamine and amino acid function in the nucleus accumbens. *European Journal of Neuroscience*. 11:1265-1274. (SCI)
67. Huang, C.T., Chen, C.F., Tsai, T.H.\* (1999) Pharmacokinetic study of granisetron in rat blood and brain by microdialysis. *Life Sciences*. 64:1921-1931. (SCI)
68. Liang, C.C., Hong, C.Y., Chen, C.F., Tsai, T.H.\* (1999) Regional brain distribution of tetramethylpyrazine in rat. *Journal of Chinese Medicine*. 10:117-123.
69. Huang, C.T., Chen, C.F., Tsai, T.H.\* (1999) Pharmacokinetics and brain regional distribution of caffeine in rats. *Journal of Chinese Medicine*. 10:125-133.
70. Huang, C.T., Chen, C.F., Tsai, T.H.\* (1999) Determination of caffeine content in the tea and coffee. *Journal of Chinese Medicine*. 10:135-141.
71. Huang, C.T., Chen, C.F., Tsai, T.H.\* (1999) Measurement and pharmacokinetic study of unbound tropisetron in rat blood by microdialysis with high-performance liquid chromatography. *International Journal of Pharmaceutics*. 182:237-242. (SCI)
72. Tsai, T.H.\*, Chen, Y.F., Chen, I.F., Chen, C.F. (1999) Measurement of unbound caffeic acid in rat blood by on-line microdialysis coupled with liquid chromatography and its application to pharmacokinetic studies. *Journal of Chromatography B*. 729:119-125. (SCI)
73. Tsai, T.H.\*, Hung, L.C., Chen, C.F. (1999) Biliary excretion of chloramphenicol and chloramphenicol glucuronide in rat by microdialysis. *Journal of Pharmacy and Pharmacology*. 51:911-915. (SCI)
74. Tsai, T.H.\*, Huang, C.T., Shum, A.Y.C., Chen, C.F. (1999) Pharmacokinetic and biliary excretion study of esculetin by microdialysis in rat. *Life Sciences*. 65:1647-1655. (SCI)
75. Tsai, T.H.\*, Tsai, T.R., Chen, Y.F., Chou, C.J., Chen, C.F. (1999)

Determination of unbound 20(S)-camptothecin in rat bile by on-line microdialysis coupled to microbore liquid chromatography with fluorescence detection. *Journal of Chromatography B*. 732:221-225. (SCI)

76. Liang, C.C., Hong, C.Y., Chen, C.F., Tsai, T.H.\* (1999) Determination of tetramethylpyrazine in the herbs of chuanxiong and yujin by high-performance liquid chromatography. *Journal of Chinese Medicine*. 10:205-212.

77. Tsai, T.H.\* , Hung, L.C., Shum, A.Y.C., Chen, C.F. (1999) Pharmacokinetic study of unbound chloramphenicol in rat blood and brain by microdialysis. *Chinese Pharmaceutical Journal*. 51:287-298.

78. Huang, C.T., Chen, C.F., Tsai, T.H.\* (1999) Biliary excretion of granisetron by microdialysis coupled to HPLC with fluorescence detection. *Journal of Liquid Chromatography and Related Technologies*. 22:2815-2823. (SCI)

79. Tsai, T.H.\* , Cheng, F.C., Hung, L.C. Chen, C.F. (1999) Measurement of hydroxyl radical in rat blood vessels by microbore liquid chromatography and electrochemical detection: a microdialysis study. *Journal of Chromatography B*. 734:277-283. (SCI)

80. Tsai, T.H.\* , Cheng, F.C., Chen, K.C., Chen, Y.F. Chen, C.F. (1999) Simultaneous measurement of cefuroxime in rat blood and brain by microdialysis and microbore liquid chromatography. *Journal of Chromatography B*. 735:25-31. (SCI)

81. Tsai, T.H.\* , Cheng, F.C., Hung, L.C., Chen, C.F. (1999) Determination of unbound ceftriaxone in rat blood by on-line microdialysis and microbore liquid chromatography. *International Journal of Pharmaceutics*. 193:21-26. (SCI)

82. Tsai, T.R., Cheng, F.C., Hung, L.C., Chen, C.F., Tsai, T.H.\* (1999) Measurement of cefmetazole in rat blood by microdialysis coupled to microbore liquid chromatography: a pharmacokinetic application. *Journal of Chromatography B*. 736:129-134. (SCI)

83. Tsai, T.H.\* , Shum, A.Y.C., Chen, C.F. (2000) Enterohepatic circulation of chloramphenicol and its glucuronide in the rat by microdialysis using a hepato-duodenal shunt. *Life Sciences*. 66:363-370. (SCI)

84. Tsai, T.H.\* , Chen, Y.F., Chou, C.J., Chen, C.F. (2000) Measurement and pharmacokinetics unbound 20(S)-camptothecin in rat blood and brain by microdialysis coupled to microbore liquid chromatography with fluorescence detection. *Journal of Chromatography A*. 870:221-226. (SCI)

85. Cheng, F.C., Yang, L.L., Yang, D.Y., Tsai, T.H., Lee, C.W., Chen, S.H. (2000) Monitoring of extracellular pyruvate, lactic acid, and ascorbic acid during cerebral ischemia: a microdialysis study in awake gerbils. *J. Chromatography A*. 870:389-394. (SCI)



86. Cheng, F.C., Kuo, J.S., Huang, H.M., Yang, D.Y., Wu, T.F., Tsai, T.H. (2000) Determination of catecholamines in pheochromocytoma cells culture medium by microdialysis - microbore liquid chromatography. *Journal of Chromatography A*. 870:405-411. (SCI)
87. Tsai, T.H.\* , Chen, Y.F., Shum, A.Y.C., Chen, C.F. (2000) Determination of chlorogenic acid in rat blood by microdialysis coupled with microbore liquid chromatography in pharmacokinetic application. *Journal of Chromatography A*. 870:443-448. (SCI)
88. Tsai, T.H.\* , Chen, Y.F., Chen, K.C., Shum, A.Y.C., Chen, C.F. (2000) Concurrent quantification and pharmacokinetic analysis of cefotaxime in rat blood and brain by microdialysis and microbore liquid chromatography. *Journal of Chromatography B*. 738:75-81. (SCI)
89. Tsai, T.H.\* , Tsai, T.R., Chen, Y.F. Chen, C.F. (2000) Determination and pharmacokinetic study of unbound cefoxitin in rat blood and brain with on-line microdialysis and microbore liquid chromatography. *Analytica Chimica Acta*. 412:13-18. (SCI)
90. Tsai, T.H.\* , Hung, L.C., Chang, Y.L., Shum, A.Y.C., Chen, C.F. (2000) Simultaneous blood and brain sampling of cephalixin in the rat by microdialysis and microbore liquid chromatography: application to pharmacokinetics studies. *Journal of Chromatography B*. 740:203-209. (SCI)
91. Chang, Y.L., Chen, Y.F., Chen, C.F., Tsai, T.H.\* (2000) Determination of unbound cephalothin in rat blood by on-line microdialysis and microbore liquid chromatography. *Journal of Chromatography B*. 742:125-130. (SCI)
92. Tsai, T.H.\* , Chen, Y.F. (2000) Simultaneous blood and brain sampling and analysis of cefazolin in the rat by microdialysis and microbore liquid chromatography. *Biomedical Chromatography*. 14:274-278. (SCI)
93. Tsai, T.H.\* , Tung, H.H., Hung, L.C., Cheng, F.C., Chen, C.F. (2000) Measurement of cimetidine in rat blood by microdialysis and liquid chromatography: a pharmacokinetic application. *Journal of Liquid Chromatography and Related Technologies*. 23:1599-1608. (SCI)
94. Chang, Y.L., Chou, M.H., Lin, M.F., Chen, Y.F., Chen, C.F., Cheng, F.C., Tsai, T.H.\* (2000) Simultaneous determination of unbound cefoperazone in rat blood and brain using microdialysis. *Journal of Pharmacy and Pharmacology*. 52:963-968. (SCI)
95. Tsai, T.H.\* (2000) Separation methods used in choline and acetylcholine assay. *Journal of Chromatography B*. 747:111-122. (SCI)
96. Tsai, T.H.\* , Liu, S.C., Ho, L.K., Chen, C.F. (2000) Determination of unbound ampicillin in rat blood by microdialysis and liquid chromatography. *Analytical Letters*. 33: 3213-3224. (SCI)

97. Tsai, T.H.\* , Chen, Y.F. (2000) Determination of unbound hesperetin in rat blood and brain by microdialysis coupled to microbore liquid chromatography. *Journal of Food and Drug Analysis*. 8: 331-336. (SCI)
98. Tsai, T.H.\* , Kao, H.Y., Chen, C.F. (2001) Measurement and pharmacokinetic analysis of unbound ceftazidime in rat blood by microdialysis and microbore liquid chromatography. *Journal of Chromatography B*. 750: 93-98. (SCI)
99. Yeh, P.H., Lee, C.H., Cheng, F.C., Tsai, T.H.\* (2001) Determination of unbound cefamandole in rat blood by microdialysis and microbore liquid chromatography. *Biomedical Chromatography*. 15: 14-17. (SCI)
100. Tsai, T.H.\* (2001) Effect of ivermectin on the disposition of amoxicillin in rat blood and brain using microdialysis. *Analytica Chimica Acta*. 431:279-285. (SCI)
101. Matthews, K., Dalley, J., Matthews, C., Tsai, T.H., Robbins, T.W. (2001) Periodic maternal separation of neonatal rats produces regionally and gender specific effects on biogenic amine content in post-mortem adult brain. *Synapse*. 40: 1-10. (SCI)
102. Tsai, T.H.\* , Liang, C.C. (2001) Pharmacokinetics of tetramethylpyrazine in rat blood and brain using microdialysis. *International Journal of Pharmaceutics*. 216: 61-66. (SCI)
103. Wu, Y.S., Tsai, T.H., Wu, T.F., Cheng, F.C. (2001) Determination of pyruvate and lactate in primary liver cell culture medium during hypoxia by on-line microdialysis/liquid chromatography. *Journal of Chromatography A*. 913: 341-347. (SCI)
104. Yang, D.Y., Tsai, T.H., Cheng, C.H., Lee, C.W., Chen, S.H., Cheng, F.C. (2001) Simultaneous monitoring of extracellular glucose, pyruvate, lactate and glutamate in gerbil cortex during focal cerebral ischemia by dual-probe microdialysis. *Journal of Chromatography A*. 913: 349-354. (SCI)
105. Chang, Y.L., Chou, M.H., Lin, M.F., Chen, C.F., Tsai, T.H.\* (2001) Determination and pharmacokinetic study of unbound cefepime in rat bile and liquid chromatography with on-line microdialysis. *Journal of Chromatography A*. 914: 77-82. (SCI)
106. Tsai, T.H., Cheng, F.C., Chen, Y.F., Chen, C.F. (2001) On-line microdialysis coupled with microbore liquid chromatography with ultraviolet detection for continuous monitoring of free cefsulodin in rat blood. *Journal of Chromatography A*. 914: 83-87. (SCI)
107. Tsai, T.H.\* (2001) Pharmacokinetics of pefloxacin and its interaction with cyclosporin A, a P-glycoprotein modulator, in rat blood, brain and bile, using simultaneous microdialysis. *British Journal of Pharmacology*. 132: 1310-1316. (SCI)

108. Tsai, T.H.\*, Kao, H.Y., Chen, C.F. (2001) Measurement and pharmacokinetic analysis of unbound cephaloridine in rat blood by on-line microdialysis and microbore liquid chromatography. *Biomedical Chromatography*. 15: 79-82. (SCI)
109. Chang, Y.L., Chou, M.H., Lin, M.F., Chen, C.F., Tsai, T.H.\* (2001) Effect of cyclosporine, P-glycoprotein inhibitor, on the pharmacokinetics of cefepime in rat blood and brain: a microdialysis study. *Life Sciences*. 69: 191-199.(SCI)
110. Tsai, T.H.\*, Wang, L.H., Hung, L.C., Tseng, T.Y., Chen, C.F. (2001) An animal brain microdialysis model for acupuncture study. *Journal of Chinese Medicine*. 12:129-144.
111. Kau, Y.C., Wong, K.M., Shyr, M.H., Lee, Y.H., Tsai, T.H.\* (2001) Simultaneous determination of unbound ropivacaine in rat blood and brain using microdialysis. *Journal of Chromatography B*. 760:107-112. (SCI)
112. Tsai, T.H.\*, Peng, H.W., Chen, C.F. (2001) Enterohepatic circulation of naringenin using paired-rats model. *Chinese Pharmaceutical Journal*. 53:55-61.
113. Tsai, T.H.\* (2001) Analytical approaches for traditional Chinese medicines exhibiting antineoplastic activity. *Journal of Chromatography B*. 764:27-48. (SCI)
114. Tsai, T.H.\*, Wu, J.W. (2001) Pharmacokinetics of ciprofloxacin in the rat and its interaction with cyclosporin A: a microdialysis study. *Analytica Chimica Acta*. 448:195-199. (SCI)
115. Tsai, T.H.\*, Lee, C.H., Yeh, P.H. (2001) Effect of cyclosporin A, a P-glycoprotein modulator, on the pharmacokinetics of camptothecin using microdialysis. *British Journal of Pharmacology*. 134:1245-1252. (SCI)
116. Chen, Y.J., Shiao, M.S., Hsu, M.L., Tsai, T.H., Wang, S.Y. (2001) The effect of caffeic acid phenethyl ester, an antioxidant from propolis, on inducing apoptosis in human leukemic HL-60 cells. *Journal of Agricultural Food and Chemistry*. 49:5615-5619. (SCI)
117. Cheng, F.C., Ho, Y.F., Hung, L.C., Chen, C.F., Tsai, T.H.\* (2002) Determination and pharmacokinetic profile of omeprazole in rat blood, brain and bile by microdialysis and high-performance liquid chromatography. *Journal of Chromatography A*. 949:35-42. (SCI)
118. Liu, S.C., Tsai, T.H.\* (2002) Determination of diclofenac in rat bile and its interaction with cyclosporin A using on-line microdialysis coupled to liquid chromatography. *Journal of Chromatography B*. 769:351-356. (SCI)
119. Chang, Y.L., Chou, M.H., Lin, M.F., Chen, C.F., Tsai, T.H.\* (2002) Determination and pharmacokinetic study of meropenem in rat bile with on-line microdialysis and liquid chromatography. *Journal of Chromatography A*. 961:119-124. (SCI)

120. Tsai, T.R., Tseng, T.Y., Chen, C.F., Tsai, T.H.\* (2002) Determination and identification of geniposide contained in *Gardenia jasminoides*, and in two preparations of mixed traditional Chinese medicines. *Journal of Chromatography A*. 961:83-88. (SCI)

121. Tsai, P.L., Tsai, T.H.\* (2002) Simultaneous determination of berberine in rat blood, liver and bile using microdialysis coupled to liquid chromatography. *Journal of Chromatography A*. 961:125-130. (SCI)

122. Cheng, F.C., Tsai, T.R., Chen, Y.F., Hung, L.C., Tsai, T.H.\* (2002) Determination of levofloxacin in rat blood and bile by microdialysis and high-performance liquid chromatography: a pharmacokinetic study. *Journal of Chromatography A*. 961:131-136. (SCI)

123. Lee, C.H., Yeh, P.H., Tsai, T.H.\* (2002) Hepatobiliary excretion of fluconazole and its interaction with cyclosporin A in rat blood and bile using simultaneous microdialysis. *International Journal of Pharmaceutics*. 241:367-373 (SCI)

124. Yang, S.E., Hsieh, M.T., Tsai, T.H., Hsu, S.L. (2002) Down-modulation of Bcl-XL, release cytochrome c and sequential activation of caspases during honokiol-induced apoptosis in human squamous lung cancer CH27 cells. *Biochemical Pharmacology*. 63:1641-1651. (SCI)

125. Cheng, F.C., Jen, C.F., Tsai, T.H.\* (2002) Hydroxyl radical in the living systems and its separation methods. *Journal of Chromatography B*. 781:481-495. (SCI)

126. Tsai, P.L., Tsai, T.H.\* (2002) High-performance liquid chromatographic determination of berberine contained in medicinal herbs and a related traditional Chinese medicine. *Analytical Letters*. 35:2459-2470. (SCI)

127. Tsai, T.H.\* (2002) Determination of naringin in rat blood, brain, liver, and bile using microdialysis and its interaction with cyclosporin A, a P-glycoprotein modulator. *Journal of Agricultural and Food Chemistry*. 50:6669-6674. (SCI)

128. Tsai, T.H.\* , Liu, S.C., Tsai, P.L., Ho, L.K., Shum, A.Y.C., Chen, C.F. (2002) Pharmacokinetics of baicalein and its interaction with P-glycoprotein inhibitor, cyclosporin A, in the rat: a microdialysis study. *British Journal of Pharmacology*. 137:1314-1320. (SCI)

129. Yang, S.E., Hsieh, M.T. Hsieh, Tsai, T.H., Hsu, S.L. (2003) Effector mechanism of magnolol-induced apoptosis in human lung squamous carcinoma CH27 cells. *British Journal of Pharmacology*. 138: 193-201. (SCI)

130. Tsai, T.H.\* , Chen, Y.F., Chen, C.F. (2003) Pharmacokinetics of metronidazole in rat blood, brain, and bile studied using microdialysis. *Journal of Chromatography A*. 987: 277 - 282. (SCI)

131. Lai, L., Lin, L.C., Lin, J.H., Tsai, T.H.\* (2003) Pharmacokinetics of mangiferin in rats by microdialysis coupled with microbore high-performance liquid chromatography and tandem mass spectrometry. *Journal of Chromatography A*. 987:367-374. (SCI)

132. Tsai, T.H.\* , Wu, J.W. (2003) Regulation of hepatobiliary excretion of sinomenine by P-glycoprotein and cytochrome P450 using microdialysis. *Life Sciences*. 72: 2413-2426. (SCI)

133. Wang, G.J., Tseng, H.W., Chou, C.J., Tsai, T.H., Chen, C.T., Lu, M.K. (2003) The vasorelaxation of *Antrodia camphorate* mycelia: involvement of endothelial Ca<sup>2+</sup>-NO-cGMP pathway. *Life Sciences*. 73:2769-2783. (SCI)

134. Tsai, T.H.\* (2003) Assaying protein unbound drugs using microdialysis techniques. *Journal of Chromatography B*. 797:161-173. (SCI)

135. Tsai, T.H.\* , Liu, M.C. (2004) Determination and brain distribution of theophylline in rat blood and brain using microdialysis and microbore liquid chromatography. *Journal of Chromatography A*. 1032:97-101. (SCI)

136. Lin, L.C., Hung, L.C., Tsai, T.H.\* (2004) Determination of (-)-epigallocatechin gallate in rat blood using microdialysis coupled with liquid chromatography. *Journal of Chromatography A*. 1032:125-128. (SCI)

137. Tsai, P.L., Tsai, T.H.\* (2004) Hepatobiliary excretion of berberine. *Drug Metabolism and Disposition*. 32:405-412. (SCI)

138. Tsai, T.H.\* , Liu, M.C. (2004) Determination of extracellular hesperidin in blood and bile of anaesthetized rats by microdialysis with high-performance liquid chromatography: a pharmacokinetic application. *Journal of Chromatography B*. 806:161-166. (SCI)

139. Tseng, T.Y., Tsai, T.H.\* (2004) Measurement of unbound geniposide in blood, liver, brain and bile of anesthetized rats: an application of pharmacokinetic study and its influence by the acupuncture. *Analytica Chimica Acta*. 517:47-52. (SCI)

140. Wu, J.W., Shih, H.H., Wang, S.C., Tsai, T.H.\* (2004) Determination and pharmacokinetic profile of pyrazinamide in rat blood, brain and bile using microdialysis coupled with high-performance liquid chromatography and verified by tandem mass spectrometry. *Analytica Chimica Acta*. 522:231-239 (SCI)

141. Tsai, P.L., Tsai, T.H.\* (2004) Pharmacokinetics of baicalin in rats and its interactions with cyclosporin A, quinidine and SKF-525A: a microdialysis study. *Planta Medica* 70:1069-1074 (SCI)

142. Chang, C.H., Fan, K.H., Chen, T.J., Hsu, W.C., Jan, M.L., Tsai, T.H., Kao, P.F., Chen, C.F., Fu, Y.K., Lee, T.W. (2004) Dynamic evaluation of [<sup>18</sup>F]FDG uptake in fibrosarcoma-bearing mouse

model: by microPET and whole body autoradiography. Journal of the Formosan Medical Association. 103:867-881 (SCI)

143. Wang, S.C., Tseng, T.Y., Huang, C.M., Tsai, T.H.\* (2004) Gardenia herbal active constituents – Applicable separation procedures. Journal of Chromatography B. 812:193-202. (SCI)

144. Fang, J.Y., Tsai, T.H., Hung, C.F., Wong, W.W. (2004) Development and Evaluation of the Essential Oil from *Magnolia fargesii* for Enhancing the Transdermal Absorption of Theophylline and (+)-Catechin. Journal of Pharmacy and Pharmacology. 56:1493-500. (SCI)

145. Huang, S.M., Tsai, D.R., Tsai, T.H.\* (2005) Measurement of unbound ranitidine in blood and bile of anesthetized rats using microdialysis coupled to liquid chromatography and its pharmacokinetic application. Journal of Chromatography A 1073:297-302 (SCI)

146. Lin, L.C., Yang, K.Y., Chen, Y.F., Wang, S.C., Tsai, T.H.\* (2005) Measurement of daphnoretin in plasma of freely moving rat by liquid chromatography. Journal of Chromatography A 1073:285-289 (SCI)

147. Huang, Y.J., Liao, J.F., Tsai, T.H.\* (2005) Concurrent determination of thalidomide in rat blood, brain and bile using multiple microdialysis coupled to liquid chromatography. Biomedical Chromatography. 19:488-493 (SCI)

148. Ueng, Y.F., Tsai, T.H., Don, M.J., Chen, R.M., Chen, T.L. (2005) Alteration of the pharmacokinetics of theophylline by rutaecarpine, an alkaloid of the medicinal herb *Evodia rutaecarpa*. Journal of Pharmacy and Pharmacology 57:227-232 (SCI)

149. Tsai, T.H.\* (2005) Concurrent measurement of unbound genistein in the blood, brain and bile of anesthetized rats using microdialysis and its pharmacokinetic application. Journal of Chromatography A 1073:317-322 (SCI)

150. Chuang, H.N., Wang, J.Y., Chiu, J.H., Tsai, T.H., Yeh, S.F., Fu, S.L., Lui, W.Y., Wu, C.W. (2005) Enhancing Effects of *Scutellaria baicalensis* and Some of its Constituents on TGF- $\beta$ 1 Gene Expression in RAW 264.7 Murine Macrophage Cell Line. *Planta Medica*. 71:440-445. (SCI)

151. Chen, Y.F., Chang, C.H., Wang, S.C., Tsai, T.H.\* (2005) Measurement of protein-unbound cocaine in blood, brain, and bile of anesthetized rats using microdialysis coupled with liquid chromatography and verified by tandem mass spectrometry. *Biomedical Chromatography*. 19:402-408. (SCI)

152. Chen, Y.J., Shieh, C.J., Tsai, T.H., Kuo, C.D., Ho, L.T., Liu, T.Y., Liao, H.F. (2005) Inhibitory effect of norcantharidin, a derivative compound from blister beetles, on tumor invasion and metastasis in CT26 colorectal adenocarcinoma cells. *Anti-Cancer Drugs*. 16:293-299. (SCI)

153. Juan, Y.P., Tsai, T.H.\* (2005) Measurement and pharmacokinetics of vincamine in rat blood and brain using microdialysis. *Journal of Chromatography A*. 1088:146-151. (SCI)

154. Chang, C.H., Tsai, L.C., Chen, S.T., Yuan, C.C., Hung, M.W., Hsieh, B.T., Chao, P.L., Tsai, T.H., Lee, T.W. (2005) Radioimmunotherapy and apoptotic induction on Ck19 overexpressing human cervical carcinoma cells with Re-188-mAbCx-99. *Anticancer Research*. 25:2719-2728. (SCI)

155. Chang, Y.L., Tsai, P.L., Chou, Y.C., Tien, J.H., Tsai, T.H.\* (2005) Simultaneous determination of nicotine and its metabolite, cotinine, in rat blood and brain tissue using microdialysis coupled with HPLC-UV: a pharmacokinetic application. *Journal of Chromatography A*. 1088:152-157. (SCI)

156. Wang, J.Y., Chiu, J.H., Tsai, T.H., Tsou, A.P., Hu, C.P., Chi, C.W., Yeh, S.F., Lui, W.Y., Wu, C.W., Chou, C.K., (2005) Gene expression profiling predicts liver responses to a herbal remedy after partial hepatectomy in mice. *International Journal of Molecular Medicine*. 16:221-231. (SCI)

157. Chen, Y.F., Jaw, I., Shiao, M.S., Tsai, T.H.\* (2005) Determination and pharmacokinetic analysis of salvianolic acid B in rat blood and bile by microdialysis and liquid chromatography. *Journal of Chromatography A*. 1088:140-145. (SCI)

158. Tsai, T.H.\*, Chang, C.H., Lin, L.C. (2005) Effect of *Evodia rutaecarpa* on the pharmacokinetics of caffeine. *Planta Medica*. 71:640-645. (SCI)

159. Tsai, P.L., Tsai, T.H.\* (2005) Measurement of unbound pravastatin in rat blood and bile on the perspective of hepatobiliary excretion and its interaction with cyclosporin A and berberine. *Analytica Chimica Acta*. 548:33-40 (SCI)

160. Hsieh, Y.J., Lin, L.C., Tsai, T.H.\* (2005) Identification and determination of plumbagin from the roots of *Plumbago zeylanica* extract by liquid chromatography with tandem mass spectrometry. *Journal of Chromatography A*. 1083:141-145. (SCI)

161. Jan, W.C., Lin, L.C., Chou, C.J., Tsai, T.H.\* (2005) Herb-drug interaction of *Evodia rutaecarpa* extract on the pharmacokinetics of theophylline in rats. *Journal of Ethnopharmacology*. 102:440-445. (SCI)

162. Chen, Y.J., Liao, H.F., Tsai, T.H., Wang, S.Y., Shiao, M.S. (2005) Caffeic acid phenethyl ester preferentially sensitizes CT26 colorectal adenocarcinoma to ionizing radiation without affecting bone marrow radioresponse. *International Journal of Radiation Oncology Biology Physics*. 63:1252-1261. (SCI)

163. Chang, C.H., Jan, M.L., Fan, K.H., Wang, H.E., Tsai, T.H., Chen, C.F., Fu, Y.K., Lee, T.W. (2006) Longitudinal Evaluation of Tumor

Metastasis by an FDG-microPET/microCT Dual-Imaging Modality in a Lung Carcinoma-Bearing Mouse Model. *Anticancer Research*. 26:159-166. (SCI)

164. Chang, C.H., Wu, S.Y., Wang, H.E., Fan, K.H., Tsai, T.H., Lee, T.W., Chang, S.R., Liu, R.S., Fu, Y.K. (2006) Comparative evaluation of FET and FDG for differentiating lung carcinoma from inflammation in mice. *Anticancer Research*. 26:917-926. (SCI)

165. Shyr, M.H., Tsai, T.H., Lin, L.C. (2006) Isolation and Structures of Rossicasin A, B and Rosicaside F, new phenylpropanoid Glycosides from *Boschniakia rossica* *Chemical and Pharmaceutical Bulletin*. 54:252-254. (SCI)

166. Wang, S.C., Ho, L.K., Yen, J.C., Chen, Y.F., Tsai, T.H.\* (2006) An automated blood sampling system to measure lovastatin level in plasma and feces of freely moving rat and verified by LC-MS/MS. *Biomedical Chromatography*. 20:911-916. (SCI)

167. Shyr, M.H., Lin, L.C. Lin, T.Y. Lin, Tsai, T.H.\* (2006) Determination and pharmacokinetics of evodiamine in the plasma and feces of conscious rats. *Analytica Chimica Acta*. 558:16-21. (SCI)

168. Wu, Y.T., Lin, L.C., Tsai, T.H.\* (2006) Determination of honokiol and magnolol in *Magnolia officinalis* by liquid chromatography with tandem mass spectrometry. *Biomedical Chromatography*. 20:1076-1081. (SCI)

169. Hsieh, C.L., Cheng, C.Y., Tsai, T.H., Lin, I.H., Liu, C.H., Chiang, S.Y., Lin, J.G., Lao, C.J., Tang, N.Y. (2006) Paeonol reduced cerebral infarction involving the superoxide anion and microglia activation in ischemia-reperfusion injured rats. *Journal of Ethnopharmacology*. 106:208-215. (SCI)

170. Shyr, M.H., Lin, L.C., Chang, C.H., Wu, Y.T., Hsieh, Y.J., Tsai, T.H.\* (2006) Hepatobiliary excretion and brain distribution of caffeine in rat using microdialysis. *Analytica Chimica Acta*. 566:265-270. (SCI)

171. Wang, J.Y., Chuang, H.N., Chiu, J.H., Fu, S.L., Tsai, T.H., Tsou, A.P., Hu, C.P., Chi, C.W., Yeh, S.F., Lui, W.Y., Wu, C.W., Chou, C.K. (2006) Effect of *Scutellaria baicalensis* Georgi on macrophage hepatocyte interaction through cytokines related to growth control of murine hepatocytes. *Experimental Biology and Medicine*. 231: 444-455. (SCI)

172. Chiou, S.H., Ku, H.H., Tsai, T.H., Lin, H.L., Chen, L.H., Chien, C.S., Ho, L.L.T., Lee, C.H., Chang, Y.L., (2006) Moclobemide (MB) Up-regulated Bcl-2 Expression and Induced Neural Stem Cell Differentiation into Serotonergic Neuron via extracellular-regulated kinase (ERK) Pathway. *British Journal of Pharmacology*. 148:587-598. (SCI)

173. Jan, W.C., Lin, L.C., M.J. Don, Chen, C.F., Tsai, T.H.\* (2006) Elimination of rutaecarpine and its metabolites in rat feces and urine



measured by liquid chromatography. *Biomedical Chromatography*. 20:1163-1171. (SCI)

174. Lin, L.C., Tsai, T.H.\* (2006) Pharmacokinetics brain distribution of unbound levamisole in the anesthetized rats using microdialysis and microbore column liquid chromatography. *Analytica Chimica Acta*. 569:145-150. (SCI)

175. Chen, Y.J., Lin, L.C., Shyr, M.H., Tsai, T.H.\* (2006) Pharmacokinetics of unbound linezolid in the blood and the mechanism of hepatobiliary excretion in the rat. *Analytica Chimica Acta*. 570:59-64. (SCI)

176. Lin, L.C., Shen, C.C., Shen, Y.C., Tsai, T.H.\* (2006) Anti-inflammatory neolignans from *Piper kadsura*. *Journal of Natural Products*. 69:842-844. (SCI)

177. Hsieh, Y.J., Lin, L.C., Tsai, T.H.\* (2006) Measurement and pharmacokinetic study of plumbagin in a conscious freely moving rat using liquid chromatography/tandem mass spectrometry. *Journal of Chromatography B*. 844:1-5. (SCI)

178. Wu, Y.T., Chen, Y.F., Hsieh, Y.J., Jaw, I., Shiao, M.S., Tsai, T.H.\* (2006) Bioavailability of salvianolic acid B in conscious and freely moving rats. *International Journal of Pharmaceutics*. 326:25-31. (SCI)

179. Wu, Y.T., Lin, L.C., Tsai, T.H.\* (2006) Determination of acteoside in *Cistanche deserticola* and *Boschniakia rossica* and its pharmacokinetics in freely-moving rats using LC-MS/MS. *Journal of Chromatography B*. 844:89-95. (SCI)

180. Chen, S.J., Kao, C.L., Chang, Y.L., Yen, C.J., Shui, J.W., Chien, C.S., Chen, I.L., Tsai, T.H., Ku, H.H., Chiou, S.H. (2007) Antidepressant administration modulates neural stem cell survival and serotonergic differentiation through Bcl-2. *Current Neurovascular Research*. 4:19-29 (SCI)

181. Fang, J.Y., Tsai, T.H., Lin, Y.Y., Wong, W.W., Wang, M.N., Huang, J.F. (2007) Transdermal delivery of tea catechins and theophylline enhanced by terpenes: a mechanistic study. *Biological and Pharmaceutical Bulletin*. 30: 343-349. (SCI)

182. Lin, L.C., Wang, M.N., Tseng, T.Y., Sung, J.S., Tsai, T.H.\* (2007) Pharmacokinetics of (-)-epigallocatechin-3-gallate in conscious and freely moving rats and its brain regional distribution. *Journal of Agricultural and Food Chemistry*. 55: 1517-1524. (SCI)

183. Chiou, S.H., Ku, H.H., Chen, M., Huang, Y.L., Tsai, Y.J., Chen, L.S., Chung, C.F., Chiu, J.H., Tsai, T.H.\* (2007) Evaluation of anti-Fas ligand-induced apoptosis and neural differentiation of PC12 cells treated with nerve growth factor using small interfering RNA method and sampling by microdialysis. *Analytical Biochemistry*. 363:46-57. (SCI)

184. Wang, S.C., Huang, C.M., Tsai, T.H. (2007) Determinations of

geniposide using LC/MS/MS methods via forming ammonium and acetate adducts. *Microchemical Journal*. 86:174-182. (SCI)

185. Lin, H.T., Kao, C.L., Lee, K.H., Chang, Y.L., Chiou, S.H., Tsai, F.T., Tsai, T.H., Sheu, D.C., Ho, L.L.T., Ku, H.H. (2007) Enhancement of insulin-producing cell differentiation from embryonic stem cells using pax4-nucleofection method. *World Journal of Gastroenterology*. 13:1672-1679.

186. Chang, C.M., Kao, C.L., Chang, Y.L., Yang, M.J., Chen, Y.C., Sung, B.L., Tsai, T.H., Chao, K.C., Chiou, S.H., Ku, H.H. (2007) Placenta-derived multipotent stem cells induced to differentiate into insulin-positive cells. *Biochemical and Biophysical Research Communications*. 347:414-420 (SCI)

187. Huang, Y.T., Cheng, C.J., Lai, T.F., Tsai, T.R., Tsai, T.H., Chuo, W.H., Cham, T.M. (2007) An investigation of acetylcholine released in skeletal muscle and protein unbound drug released in blood based on the pyridostigmine bromide (pretreatment drug) sustained-release pellets by microdialysis technique in the rabbit model. *Neuroscience Letter*. 416:302-306. (SCI)

188. Yang, K.Y., Lin, L.C., Tseng, T.Y., Wang, S.C., Tsai, T.H.\* (2007) Oral bioavailability of curcumin in rat and the herbal analysis from *Curcuma longa* by LC-MS/MS. *Journal of Chromatography B*. 853:183-189. (SCI)

189. Lin, L.C., Chen, Y.F., Tsai, T.R., Tsai, T.H.\* (2007) Analysis of brain distribution and biliary excretion of a nutrient supplement, gastrodin, in rat. *Analytica Chimica Acta*. 590:173-179. (SCI)

190. Wu, Y.T., Tsai, T.R., Lin, L.C., Tsai, T.H.\* (2007) Liquid chromatographic method with amperometric detection to determine acteoside in rat blood and brain microdialysates and its application to pharmacokinetic study. *Journal of Chromatography B*. 853:281-286. (SCI)

191. Chang, Y.L., Chiou, S.H., Chou, Y.C., Yen, C.J., Tsai, T.H.\* (2007) Quantitative determination of unbound cefoperazone in rat bile using microdialysis and liquid chromatography. *Journal of Pharmaceutical and Biomedical Analysis*. 45: 158–163. (SCI)

192. Chang, C.H., Hsu, W.C., Wang, C.Y., Jan, M.L., Tsai, T.H., Lee, T.W., Lynn, S.G., Yeh, C.H., Chang, T.J. (2007) Longitudinal microSPECT/CT imaging and Pharmacokinetics of Synthetic Luteinizing Hormone Releasing Hormone (LHRH) vaccine in rats. *Anticancer Research*. 27:3251-3258. (SCI)

193. Wang, G.J., Tsai, T.H., Lin, L.C. (2007) New Prenylflavonol, acylated flavonol glycosides and related compounds from *Epimedium sagittatum*. *Phytochemistry*. 68: 2455–2464. (SCI)

194. Wu, J.W., Tsai, T.H.\* (2007) Effect of silibinin on the pharmacokinetics of pyrazinamide and pyrazinoic acid. *Drug Metabolism and Disposition*. 35:1603-1610. (SCI)

195. Wu, J.W., Lin, L.C., Hung, S.C., Chi, C.W., Tsai, T.H.\* (2007) Analysis of silibinin in rat plasma and bile for hepatobiliary excretion and oral bioavailability application. *Journal of Pharmaceutical and Biomedical Analysis*. 45:635-641. (SCI)
196. Lin, C.L., Lin, S.J., Huang, W.J., Ku, Y.L., Tsai, T.H., Hsu, F.L. (2007) Novel ent-Beyeran-19-oic acids from biotransformations of isosteviol metabolites by *Mortierella isabellina*. *Planta Medica*. 73: 1581-1587. (SCI)
197. Ho, Y.F., Lai, M.Y., Yu, S.Y., Huang, T.K., Shai, W.C., Tsai, T.H., Lin, C.Y. (2008) Application of rat in situ single-pass intestinal perfusion in the evaluation of pre-systemic extraction of indinavir under different perfusion rates. *Journal of the Formosan Medical Association*. 107, 37–45. (SCI)
198. Peng, C.H., Chiou, S.H., Chen, S.J., Chou, Y.C., Ku, H.H., Cheng, C.K., Yen, C.J., Tsai, T.H., Chang, Y.L., Kao, C.L. (2008) Neuroprotection by imipramine against lipopolysaccharide-induced apoptosis in hippocampus-derived neural stem cells mediated by activation of BDNF and the MAPK pathway. *European Neuropsychopharmacology*. 18, 128-140. (SCI)
199. Chen, Y.J., Huang, S.M., Liu, C.Y., Yeh, P.H., Tsai, T.H.\* (2008) Hepatobiliary excretion and enterohepatic circulation of colchicine in rats. *International Journal of Pharmaceutics*. 350, 230-239. (SCI)
200. Hsieh, Y.J., Chang, C.H., Huang, S.P., Lin, C.W., Wang, M.N., Wu, Y.T., Chen, Y.J., Tsai, T.H.\* (2008) Effects of the cyclosporin A on the brain distribution of doxorubicin in rats. *International Journal of Pharmaceutics*. 350:265-271. (SCI)
201. Wu, J.W., Lin, L.C., Hung, S.C., Lin, C.H., Chi, C.W., Tsai, T.H.\* (2008) Hepatobiliary excretion of silibinin and liver cirrhosis induced by dimethylnitrosamine. *Drug Metabolism and Disposition*. 36:589-596. (SCI)
202. Tsai, T.H., Wang, G.J., Lin, L.C. (2008) Vasorelaxing alkaloids and flavonoids from *Cassythia filiformis*. *Journal of Natural Products*. 71:289-291. (SCI)
203. Fu, Y.S., Lin, Y.Y., Chou, S.C., Tsai, T.H., Kao, L.S., Hsu, S.Y., Cheng, F.C., Shih, Y.H., Cheng, H., Fu, Y.Y., Wang, J.Y. (2008) Tetramethylpyrazine inhibits activities of glioma cells and glutamate neuro-encitotoxicity – potential therapeutic application for treatment of glioma. *Neuro-Oncology*. 10:139-152. (SCI)
204. Lee, Y.Y., Kao, C.L., Tsai, P.H., Tsai, T.H., Chiou, S.H., Wu, W.F., Ku, H.H., Wong, T.T. (2008) Caffeic acid phenethyl ester preferentially enhanced radiosensitizing and increased oxidative stress in medulloblastoma cell line. *Childs Nervous System*. 24:978-994. (SCI)
205. Hsu, C.H., Tsai, T.H., Kao, Y.H., Hwang, K.C., Tseng, T.Y.,

- Chou, P. (2008) Effect of green tea extract on obese women: a randomized, double-blind, placebo-controlled clinical trial. *Clinical Nutrition*. 27:363-370 (SCI)
206. Kapuriya, N., Kapuriya, K., Zhang, X., Chou, T.C., Kakadiya, R., Wu, Y.T., Tsai, T.H., Chen, Y.T., Lee, T.C., Shah, A., Naliapara, Y., Su, T.L. (2008) Synthesis and biological activity of stable and potent antitumor agents, aniline nitrogen mustards linked to 9-anilinoacridines via a urea linkage. *Bioorganic and Medicinal Chemistry*. 16:5413-5423. (SCI)
207. Chiou, S.H., Yu, C.C., Huang, C.Y., Lin, S.C., Liu, C.J., Tsai, T.H., Chou, S.H., Chien, C.S., Ku, H.H., Lo, J.F. (2008) Positive Correlations of Oct-4 and Nanog in Oral Cancer Stem-Like Cells and High-Grade Oral Squamous Cell Carcinoma. *Clinical Cancer Research*. 14:4085-4095. (SCI)
208. Lin, L.C., Wang, M.N., Tsai, T.H.\* (2008) Food-drug interaction of (-)-epigallocatechin-3-gallate on the pharmacokinetics of irinotecan and metabolite SN-38. *Chemico-Biological Interactions*. 174:177-182. (SCI)
209. Tsai, T.H., Lin, L.C. (2008) Phenolic glycosides and pyrrolidinium alkaloids from *Codonopsis tangshen*. *Chemical and Pharmaceutical Bulletin*. 56:1546-1550. (SCI)
210. Lin, L.C., Chen, Y.F., Lee, W.C., Wu, Y.T., Tsai, T.H.\* (2008) Pharmacokinetics of gastrodin and its metabolite p-hydroxybenzyl alcohol in rat blood, brain and bile by microdialysis coupled to LC-MS/MS. *Journal of Pharmaceutical and Biomedical Analysis*. 48:909-917. (SCI)
211. Wang, S.C., Liao, H.J., Lee, W.C., Huang, C.M., Tsai, T.H. (2008) Using orthogonal array to obtain gradient liquid chromatography conditions of enhanced peak intensity to determine geniposide, genipin with electrospray tandem mass spectrometry. *Journal of Chromatography A*. 1212:68-75. (SCI)
212. Huang, T.F., Chen, Y.T., Yang, T.H., Chen, L.L., Chiou, S.H., Tsai, T.H., Tsai, C.C., Chen, M.H., Ma, H.L., Hung, S.C. (2008) Isolation and characterization of mesenchymal stromal cells from human anterior cruciate ligament. *Cytotherapy*. 10, 806-814. (SCI)
213. Kapuriya, N., Kapuriya, K., Dong, H., Zhang, X., Chou, T.C., Chen, Y.T., Lee, T.C., Lee, W.C., Tsai, T.H., Naliapara, Y., Su, T.L. (2009) Novel DNA-directed alkylating agents: Design, synthesis and potent antitumor effect of phenyl N-mustard-9-anilinoacridine conjugates via a carbamate or carbonate linker. *Bioorganic and Medicinal Chemistry*. 17, 1264-1275. (SCI)
214. Wu, J.W., Lin, L.C., Tsai, T.H.\* (2009) Drug-drug interactions of silymarin on the perspective of pharmacokinetics. *Journal of Ethnopharmacology*. 121:185-193. (SCI)
215. Huang, S.P., Lin, L.C., Wu, Y.T., Tsai, T.H.\* (2009)

Pharmacokinetics of kadsurenone in rats using HPLC and microdialysis system. *Journal of Chromatography B*. 877, 247-252. (SCI)

216. Liu, H.K., Tsai, T.H., Chang, T.T., Chou, C.J., Lin, L.C. (2009) Lanostane-triterpenoids from the fungus *Phellinus gilvus*. *Phytochemistry*. 70:558-563. (SCI)

217. Wu, Y.T., Lin, L.C., Tsai, T.H.\* (2009) Measurement of free hydroxytyrosol in microdialysates from blood and brain of anesthetized rats by liquid chromatography with fluorescence detection. *Journal of Chromatography A*. 1216:3501–3507. (SCI)

218. Chang, J.C., Lee, W.C., Lin, L.C., Tsai, T.H.\* (2009) Distribution of blood-to-muscle for clenbuterol in rat using microdialysis. *International Journal of Pharmaceutics*. 372: 91-96. (SCI)

219. Wu, Y.T., Huang, C.M., Lin, C.C., Ho, W.A., Lin, L.C., Chiu, T.F., Tarnag, D.C., Lin, C.H., Tsai, T.H.\* (2009) Determination of melamine in rat plasma, liver, kidney, spleen, bladder and brain by liquid chromatography tandem mass spectrometry. *Journal of Chromatography A*. 1216:7595-7601. (SCI)

220. Wang, G.J., Tsai, T.H., Chang, T.T., Chou, C.J., Lin, L.C. (2009) Lanostanes from *Phellinus igniarius* and their iNOS inhibitory activities. *Planta Medica*. 75:1-6. (SCI)

221. Chen, W.L., Tsai, T.H., Huang, C.C., Chen, J.H., Kuo, C.D. (2009) Heart rate variability predicts short-term outcome for successfully resuscitated patients with out-of-hospital cardiac arrest. *Resuscitation*. 81:1114-1118. (SCI)

222. Ho, Y.F., Huang, D.K., Hsueh, W.C., Lai, M.Y., Yu, H.Y., Tsai, T.H. (2009) Effects of St. John's wort extract on indinavir pharmacokinetics in rats: Differentiation of intestinal and hepatic impacts. *Life Sciences* 85: 296–302. (SCI)

223. Chang, J.C., Wu, Y.T., Lee, W.C., Lin, L.C., Tsai, T.H.\* (2009) Herb-drug interaction of silymarin or silibinin on the pharmacokinetics of trazodone in rats. *Chemico-Biological Interactions*. 182:227-232. (SCI)

224. Hsieh, C.H., Wei, M.C., Lee, H.Y., Hsiao, S.M., Chen, C.A., Wang, L.Y., Hsieh, Y.P., Tsai, T.H., Chen, Y.J., Shueng, P.W. (2009) Whole pelvic helical tomotherapy for locally advanced cervical cancer: technical implementation of IMRT with helical Tomotherapy. *Radiation Oncology*. 4:62. (SCI)

225. Chen, C.A., Chang, H.H., Kao, C.Y., Tsai, T.H., Chen, Y.J. (2009) Plumbagin, Isolated from *Plumbago zeylanica*, Induces Cell Death through Apoptosis in Human Pancreatic Cancer Cells. *Pancreatology*, 9:797-809. (SCI)

226. Chen, I.L., Tsai, Y.J., Huang, C.M., Tsai, T.H.\* (2010) Lymphatic absorption of quercetin and rutin in rat and their pharmacokinetic in

systemic plasma. *Journal of Agricultural and Food Chemistry*. 58:546-551. (SCI)

227. Wu, Y.T., Huang, C.M., Lin, C.C., Ho, W.A., Lin, L.C., Chiu, T.F., Tarng, D.C., Lin, C.H., Tsai, T.H.\* (2010) Oral bioavailability, urinary excretion and organ distribution of melamine in Sprague–Dawley rats by high-performance liquid chromatography with tandem mass spectrometry. *Journal of Agricultural and Food Chemistry*. 58:108-111. (SCI)

228. Chen, C.C., Tsai, T.H., Huang, Z.R., Fang, J.Y. (2010) Effects of lipophilic emulsifiers on the oral administration of lovastatin from nanostructured lipid carriers: physicochemical characterization and pharmacokinetics. *European Journal of Pharmaceutics and Biopharmaceutics*. 74: 474–482. (SCI)

229. Chien, C.F., Wu, Y.T., Lee, W.C., Lin, L.C., Tsai, T.H.\* (2010) Herb-drug interaction of *Andrographis paniculata* extract and andrographolide on the pharmacokinetics of theophylline in rats. *Chemico-Biological Interactions*. 184: 458-465. (SCI)

230. Chen, W.L., Tsai, T.H., Yang, C.C.H., Kuo, T.B.J (2010) Acute Effects of Ephedra on Autonomic Nervous Modulation in Healthy Young Adults. *Clinical Pharmacology and Therapeutics*. 88(1):39-44. (SCI)

231. Chen, W.L., Tsai, T.H., Yang, C.C.H., Kuo, T.B.J. (2010) Effects of ephedra on autonomic nervous modulation in healthy young adults. *Journal of Ethnopharmacology*. 130:563-568. (SCI)

232. Tsai, Y.J., Lin, L.C., Tsai, T.H.\* (2010) Pharmacokinetics of adenosine and cordycepin, a bioactive constituent of *Cordyceps sinensis* in rat. *Journal of Agricultural and Food Chemistry*. 58, 4638–4643. (SCI)

233. Hsieh, C.H., Hsieh, Y.J., Lin, C.Y., Tai, H.C., Huang, Y.C., Shueng, P.W., Lee, H.Y., Tsai, T.H.\*, Chen, Y.J.\* (2010) Abdominal Irradiation Modulates 5-Fluorouracil Pharmacokinetics. *Journal of Translational Medicine*. 8:29 (SCI)

234. Lee, W.C., Tsai, T.H.\* (2010) Preparation and characterization of liposomal coenzyme Q10 for in vivo topical application. *International Journal of Pharmaceutics*. 395, 78-83. (SCI)

235. Wu, Y.T., Kao, Y.L., Lin, L.C., Tsai, T.H.\* (2010) Effects of a P-glycoprotein modulator on the pharmacokinetics and distribution of free levobupivacaine and bupivacaine in rats. *International Journal of Pharmaceutics*. 396, 127–133. (SCI)

236. Chen, K.H., Hsu, C.C., Song, W.S., Huang, C.S., Tsai, C.C., Kuo, C.D., Hsu, H.S., Tsai, T.H., Tsai, C.Y., Woung, L.C., Chiou, S.H., Lu, K.H., Chen, Y.W. (2010). Celecoxib enhances radiosensitivity in medulloblastoma-derived CD133-positive cells. *Childs Nervous System*. 26:1605-1612. (SCI)

237. Tsai, T.H.\*, Chen, I.L. (2010) Rebuttal to a comment on lymphatic absorptions of quercetin and rutin in the rat and their pharmacokinetics in systemic plasma. *Journal of Agricultural and Food Chemistry*. 58, 8468-8469. (SCI)
238. Lin, C.C., Wu, Y.T., Yen, J.C., Chiang, C.J., Tsuang, Y.H., Tsai, T.H.\* (2010) In vitro and in vivo models to measure ceftriaxone distribution into the rat tail intervertebral disc. *Analytical Sciences*. 26, 979-982. (SCI)
239. Tsai, T.H., Liu, Y.C., Lin, L.C. (2010). Flavonoids from *Taxillus theifer*. *Journal of Food and Drug Analysis*. 18: 256-262. (SCI)
240. Wu, Y.T., Lin, C.W., Lin, L.C., Chiu, A.W., Chen, K.K., Tsai, T.H.\* (2010) Analysis of biliary excretion of icariin in rats. *Journal of Agricultural and Food Chemistry*. 58(18):9905-9911. (SCI)
241. Wang, K.L., Yang, Y.C., Lai, C.Y.J, Tsai, T.H., Lin, C.P., Wu, Y.T., Chen, Y.Y., Wang, S.C., Chen, Y.J. (2010) Comparison in purity and antitumor effect of brand and generic paclitaxel against human ovarian cancer cells by an in vitro experimental model. *Drug Development and Industrial Pharmacy*. 36, 1253-1258. (SCI)
242. Wang, C.L., Fan, Y.B., Lu, H.H., Tsai, T.H., Tsai, M.C., Wang, H.P. (2010) Evidence of d-phenylglycine as delivering tool for improving l-dopa absorption. *Journal of Biomedical Science*. 17(1):71. (SCI)
243. Su, S.Y., Cheng, C.Y., Tsai, T.H., Hsiang, C.Y., Ho, T.Y., Hsieh, C.L. (2010) Paeonol Attenuates H<sub>2</sub>O<sub>2</sub>-Induced NF- $\kappa$ B-Associated Amyloid Precursor Protein Expression. *The American Journal of Chinese Medicine*, 38, 1171-1192. (SCI)
244. Chien, C.F., Wu, Y.T., Tsai, T.H.\* (2011) Biological analysis of herbal medicines used for the treatment of liver diseases. *Biomedical Chromatography*. 25:21-38. (SCI)
245. Lai, J.C.Y., Chen, J.R., Chen, Y.J., Hsu, C.H., Wang, T.Y., Yang, Y.C., Su, T.H., Tsai, T.H., Wang, K.L. (2011) Villoglandular Adenocarcinoma of the Uterine Cervix: An Analysis of 12 Clinical Cases. *International Journal of Gerontology* 5, 49-52. (SCI)
246. Wei, Y.J., Tsai, K.S., Lin, L.C., Lee, Y.T., Chi, C.W., Tsai, T.H.\* , Hung, S.C.\* (2011) Catechin stimulates osteogenesis by enhancing PP2A activity in human mesenchymal stem cells. *Osteoporosis International*. 22: 1469-1479. (SCI)
247. Tsai, Y.M., Jan, W.C., Chien, C.F., Lee, W.C., Lin, L.C., Tsai, T.H.\* (2011) Optimized nanoformulation on the bioavailability of hydrophobic polyphenol, curcumin, in freely-moving rats. *Food Chemistry*. 127, 918–925. (SCI)
248. Lin, H.C., Yang, Y.Y., Tsai, T.H., Huang, C.M., Huang, Y.T., Lee, F.Y., Liu, T.T., Lee, S.D., (2011) The relationship between endotoxemia and hepatic endocannabinoids in cirrhotic rats with

portal hypertension. *Journal of Hepatology*. 54, 1145-1153. (SCI)

249. Hung, S.H., Yeh, C.K., Tsai, T.H., Chen, T., Chen, R.C. (2011) A simple method for quantifying ultrasound-triggered microbubble destruction. *Ultrasound in Medicine and Biology*. 37, 949-957. (SCI)

250. Hsu, C.H., Liao Y.L., Lin, S.C., Tsai, T.H., Huang, C.J., Chou, P. (2011) Does supplementation with green tea extract improve insulin resistance in obese type 2 diabetics? A randomized, double blind, and placebo-controlled clinical trial. *Alternative Medicine Review*. 16, 157-163. (SCI)

251. Lin, L.C., Tsai, T.H., Su, S.C. (2011). A Novel 8.O.6'-Neolignan from *Taxillus theifer*. *Natural Product Research*. 25, 1319-1323. (SCI)

252. Hsieh, C.H., Liu, C.Y., Hsieh, Y.J., Tai, H.C., Wang, L.Y., Tsai, T.H\*, Chen, Y.J.\*. (2011) Matrix metalloproteinase-8 mediates the unfavorable systemic impact of local irradiation on pharmacokinetics of anti-cancer drug 5-fluorouracil. *PLoS ONE*. 6(6):e21000. (SCI)

253. Tsai, Y.M., Chien, C.F., Lin, L.C., Tsai, T.H.\* (2011) Curcumin and its nano-formulation: the kinetics of tissue distribution and blood brain barrier penetration. *International Journal of Pharmaceutics*. 416, 331-338. (SCI)

254. Yang, J.L., Chen, J.S., Yang, Y.F., Chen, J.C., Lin, C.H., Chang, R.S., Tsao, P.J., Chen, F.P., Chern, C.M., Tsai, T.H., Chiu, J.H. (2011) Neuroprotection effects of retained acupuncture in neurotoxin-induced Parkinson's disease mice. *Brain Behavior and Immunity*. 25(7):1452-1459. (SCI)

255. Hsieh, C.H., Liao, H.F., Kuo, C.D., Huang, Y.C., Shueng, P.W., Hsu, Y.P., Wang, L.Y., Tsai, T.H.\*, Chen, Y.J.\* (2011) Norcantharidin Modulates Development of Dendritic Cells and Prolongs Skin Allograft Survival. *Transplantation*. 92, 848-857. (SCI)

256. Liu, C.Y., Lai, Y.L., Lin, C.P., Wu, Y.T., Tsai, T.H., Chen, Y.J. (2011) Anti-tumor effect of *Archidendron lucidum* (Benth.) against esophageal cancer, colorectal cancer and hepatoma. *Journal of Medicinal Plants Research*. 5(21), 5221-5229. (SCI)

257. Wang, S.C., Lee, S.C., Hung, C.H., Liao, H.J., Huang, C.M., Tsai, T.H. (2011) Using orthogonal arrays to obtain efficient and reproducible extraction conditions of geniposide and genipin in *Gardenia* fruit with liquid chromatography-mass spectrometry determinations. *Journal of Food and Drug Analysis*. 19(4), 486-494. (SCI)

258. Hsieh, C.H., Huang, Y.C., Tsai, T.H.\*, Chen, Y.J.\* (2011) Cantharidin modulates development of human monocyte-derived dendritic cells. *Toxicology in vitro*. 25(8):1740-1747. (SCI)

259. Jeng, M.J., Song, W.J., Chiou, S.Y., Wu, Y.T., Tsai, T.H., Lin, C.C., Yang, C.F., Tsao, P.C., Lee, Y.S. (2012) Efficacy of Intratracheal Instillation of a Meropenem/ Perfluorochemical Suspension in Acute



Lung Injury. *Pediatric Pulmonology*. 47(2):189-98. (SCI)

260. Chang-Liao, W.L., Chien, C.F., Lin, L.C., Tsai, T.H.\* (2012) Isolation of gentiopicroside from *Gentianae Radix* and its pharmacokinetics on liver ischemia/reperfusion rats. *Journal of Ethnopharmacology*. 141: 668-673. (SCI)

261. Fu, P.K., Wu, C.L., Tsai, T.H., Hsieh, C.L. (2012) Anti-inflammatory and anti-coagulative effects of paeonol on LPS-induced acute lung injury in rats. *Evidence-based Complementary and Alternative Medicine*. 2012:837513. (SCI)

262. Su, S.Y., Cheng, C.Y., Tsai, T.H., Hsieh, C.L. (2012) Paeonol protects memory after ischemic stroke via inhibiting  $\beta$ -secretase and apoptosis. *Evidence-based Complementary and Alternative Medicine*. 2012:932823. (SCI)

263. Yang, Y.Y., Tsai, T.H., Huang, Y.T., Lee, T.Y., Chan, C.C., Lee, K.C., Lin, H.C., (2012) Hepatic endothelin-1 and endocannabinoids-dependent effects of hyperleptinaemia in nonalcoholic steatohepatitis-cirrhotic rats. *Hepatology*. 55(5):1540-1550. (SCI)

264. Lee, W.C., Chang, C.H., Huang, C.M., Wu, Y.T., Chen, L.C., Ho, C.L., Chang, T.J., Lee, T.W., Tsai, T.H.\* (2012) Correlations between radioactivity and chemotherapeutics of <sup>111</sup>In-VNB-Liposome in pharmacokinetics and biodistribution in rats. *International Journal of Nanomedicine*. 7, 683–692. (SCI)

265. Hsiao, C.Y., Hung, C.Y., Tsai, T.H., Chak, K.F. (2012) A study of the wound healing mechanism of a traditional Chinese medicine, *Angelica sinensis*, using a proteomic approach. *Evidence-Based Complementary and Alternative Medicine*. 2012:467531. (SCI)

266. Hsiao, C.Y., Tsai, T.H., Chak, K.F. (2012) The molecular basis of wound healing processes induced by *Lithospermi Radix*: a proteomics and biochemical analysis. *Evidence-Based Complementary and Alternative Medicine*. 2012: 508972. (SCI)

267. Yang, C.P., Wang, H.A., Tsai, T.H., Fan, A., Hsu, C.L., Chen, C.J., Hong, C.J., Chen, Y.M. (2012) Characterization of the neuropsychological phenotype of glycine N-methyltransferase-/- mice and evaluation of its responses to clozapine and sarcosine treatments. *European Neuropsychopharmacology*. 22(8):596-606. (SCI)

268. Lin, L.C., Li, S.H., Wu, Y.T., Kuo, K.L., Tsai, T.H.\* (2012) Pharmacokinetics and urine metabolite identification of dehydroevodiamine in the rat. *Journal of Agricultural and Food Chemistry*. 60, 1595–1604. (SCI)

269. Shaw, L.H., Tsai, T.H.\* (2012) Simultaneous determination and pharmacokinetics of protein unbound aspirin and salicylic acid in rat blood and brain by microdialysis: an application to herbal-drug interaction. *Journal of Chromatography B*. 895, 31-38. (SCI)

270. Tsai, Y.M., Chang-Liao, W.L., Chien, C.F., Lin, L.C., Tsai, T.H.\*

- (2012) Effects of polymer molecular weight on relative oral bioavailability of curcumin. *International Journal of Nanomedicine*. 7, 2957-2966. (SCI)
271. Liu, C.Y., Tsai, T.H., Huang, Y.C., Hsieh, H.R., Liao, H.F., Chen, Y.J. (2012) Differential immunomodulating effects of pegylated liposomal doxorubicin nanoparticles on human macrophages. *Journal of Nanoscience and Nanotechnology*. 12(10):7739-7746. (SCI)
272. Kuo, J.J., Chang, H.H., Tsai, T.H., Lee, T.Y. (2012) Curcumin ameliorates mitochondrial dysfunction associated with inhibition of gluconeogenesis in free fatty acid-mediated hepatic lipoapoptosis. *International Journal of Molecular Medicine*. 30(3):643-649. (SCI)
273. Kuo, J.J., Chang, H.H., Tsai, T.H., Lee, T.Y. (2012) Positive effect of curcumin on inflammation and mitochondrial dysfunction in obese mice with liver steatosis. *International Journal of Molecular Medicine*. 30(3):673-679. (SCI)
274. Yang, Y.Y., Huang, Y.T., Tsai, T.H., Hou, M.C., Lee, F.Y., Lee, S.D., Lin, H.C. (2012) Kupffer cell depletion attenuates leptin-mediated methoxamine-stimulated portal perfusion pressure and thromboxane A2 release in a rodent model of NASH cirrhosis. *Clinical Science*. 123(12):669-680. (SCI)
275. Tsao, P.C., Jeng, M.J., Soong, W.J., Tsai, T.H., Wu, Y.T., Lee, Y.S., Chiou, S.Y., Chen, S.J., Tang, R.B. (2012) Cranial neurotransmitter alteration in newborn piglets exposed to oxygen. *Journal of the Chinese Medical Association* 75, 449-453. (SCI)
276. Shaw, L.H., Lin, L.C., Tsai, T.H.\* (2012) HPLC–MS/MS analysis of a traditional Chinese medical formulation of Bu-Yang-Huan-Wu-Tang and its pharmacokinetics after oral administration to rats. *PLOS ONE*. 7(8): e43848. (SCI)
277. Fu, P.K., Yang, C.Y., Tsai, T.H., Hsieh, C.L. (2012) Moutan cortex radices improves lipopolysaccharide-induced acute lung injury in rats through anti-inflammation. *Phytomedicine*. 19, 1206-1215. (SCI)
278. Lin, C.C., Yen, J.C., Wu, Y.T., Lin, L.C., Tsai, T.H.\* (2012) Chemical analysis and transplacental transfer of oseltamivir and oseltamivir carboxylic acid in pregnant rats. *PLOS ONE*. 7(10): e46062. (SCI)
279. Cheng, J.J., Tsai, T.H., Lin, L.C. (2012) New Alkaloids and Cytotoxic Principles from *Sinomenium acutum*. *Planta Med*. 78(17):1873-1877. (SCI)
280. Tsai, Y.J., Tsai, T.H.\* (2012) Mesenteric lymphatic absorption and the pharmacokinetics of naringin and naringenin in the rat. *Journal of Agricultural and Food Chemistry*. 60, 12435-12442. (SCI)
281. Wu, Y.T., Wu, M.T., Lin, C.C., Chien, C.F., Tsai, T.H.\* (2012) Pharmacokinetic Studies of Chinese Medicinal Herbs Using an

Automated Blood Sampling System and Liquid Chromatography-mass Spectrometry. *Journal of Traditional and Complementary Medicine*. 2, 33-40.

282. Tsai, T.H.\* (2013) A Case of Plagiarism. *Journal of Traditional and Complementary Medicine*. 3, 81.

283. Chang, L.W., Hou, M.L., Tsai, T.H.\* (2013) Pharmacokinetics of dibutyl phthalate (DBP) in the rat determined by UPLC-MS/MS. *International Journal of Molecular Sciences*. 14, 836-849. (SCI)

284. Cheng, S., Lin, L.C., Lin, C.H., Tsai, T.H.\* (2013) Comment on Pharmacokinetics and Urine Metabolite Identification of Dehydroevodiamine in the Rat: From *Boymia ruticarpa* A. Juss to *Tetradium ruticarpum* (A. Juss) T. G. Hartley. *Journal of Agricultural and Food Chemistry*. 61(2), 472. (SCI)

285. Chien, S.I., Yen, J.C., Kakadiya, R., Chen, C.H., Lee, T.C., Su, T.L., Tsai, T.H.\* (2013) Determination of tissue distribution of potent antitumor agent ureidomustin (BO-1055) by HPLC and its pharmacokinetic application in rats. *Journal of Chromatography B*. 917-918, 62-70. (SCI)

286. Liu, Y.M., Liu, Y.K., Lan, K.L., Lee, Y.W., Tsai, T.H.\* , Chen, Y.J.\* (2013) Medicinal fungus *Antrodia cinnamomea* inhibits growth and cancer stem cell characteristics of hepatocellular carcinoma. *Evidence-Based Complementary and Alternative Medicine*. 2013:569737. (SCI)

287. Chaniyara, R., Tala, S., Chen, C.W., Zang, X., Kakadiya, R., Lin, L.F., Chen, C.H., Chien, S.I., Chou, T.C., Tsai, T.H., Lee, T.C., Shah, A., Su, T.L. (2013) Novel antitumor indolizino[6,7-b]indoles with multiple modes of action: DNA cross-linking and topoisomerase I and II inhibition. *Journal of Medicinal Chemistry*. 56, 1544–1563. (SCI)

288. Yang, Y.C., Chen, C.N., Wu, C.I., Huang, W.J., Kuo, T.Y., Kuan, M.C., Tsai, T.H., Huang, J.S., Huang, C.Y. (2013) NBM-T-L-BMX-OS01, Semisynthesized from *Osthole*, Is a Novel Inhibitor of Histone Deacetylase and Enhances Learning and Memory in Rats. *Evidence-Based Complementary and Alternative Medicine*. 2013;2013:514908.

289. Lin, L.C., Tsai, T.H., Kuo, C.L. (2013). Chemical constituents comparison of *Codonopsis tangshen*, *Codonopsis pilosula* var. *modesta*, and *Codonopsis pilosula*. *Natural Product Research*. 18:24. (SCI)

290. Huang, W.C., Huang, C.H., Hsu, H.S., Hsieh, C.C., Hsu, W.H., Tsai, T.H., Chen, Y.J. (2013) Intrathoracic goiter in elderly patients. *International Journal of Gerontology*. 7 (1), pp. 8-12. (SCI)

291. Hou, M.L., Chang, L.W., Chiang, C.J., Tsuang, Y.H., Lin, C.H., Tsai, T.H.\* (2013) Pharmacokinetics of di-isononyl phthalate in freely moving rats by UPLC-MS/MS. *International Journal of Pharmaceutics*. 450(1-2):36-43. (SCI)

292. Tsai, J.J., Kuo, H.C., Lee, K.F., Tsai, T.H.\* (2013) Glycyrrhizin Represses Total Parenteral Nutrition Associated Acute Liver Injury in Rats via Endoplasmic Reticulum Stress Suppression. *International Journal of Molecular Science*. 14, 12563-12580. (SCI)
293. Hsueh, T.Y., Wu, Y.T., Lin, L.C., Chiu, A.W., Lin, C.H., Tsai, T.H.\* (2013) Herb-drug interaction of *Epimedium sagittatum* (Sieb. et Zucc.) Maxim extract on the pharmacokinetics of sildenafil in rats. *Molecules*. 18, 7323-7335. (SCI)
294. Lu, C.M., Hou, M.L., Lin, L.C., Tsai, T.H.\* (2013) Chemical and physical methods to analyze a multi-component traditional Chinese herbal prescription using LC-MS/MS, electron microscope and Congo red staining. *Evidence-Based Complementary and Alternative Medicine*. 2013: 952796. (SCI)
295. Shaw, L.H., Chen, W.M, Tsai, T.H.\* (2013) Identification of multiple ingredients for a traditional Chinese medicine preparation (bu-yang-huan-wu-tang) by liquid chromatography coupled with tandem mass spectrometry. *Molecules*. 18, 11281-11298. (SCI)
296. Hsieh, C.H., Hou, M.L., Chiang, M.H., Tai, H.C., Tien, H.J., Wang, L.Y., Tsai, T.H.\* , Chen, Y.J.\* (2013) Head and neck irradiation modulates pharmacokinetics of 5-fluorouracil and cisplatin. *Journal of Translational Medicine*. 11:231. (SCI)
297. Chang-Liao, W.L., Hou, M.L., Chang, L.W., Lee, C.J., Tsai, Y.M., Lin, L.C., Tsai, T.H.\* (2013) Determination and pharmacokinetics of di-(2-ethylhexyl) phthalate in rats by ultra performance liquid chromatography with tandem mass spectrometry. *Molecules*. 18, 11452-11466. (SCI)
298. Huang, H.L., Yang, W.Y., Pu, H.F., Tsai, T.H., Lin, C.H., Chen, N.J., Tarng, D.C. (2013) Kruppel-like factor 5 associates with melamine-cyanurate crystal-induced nephritis in rats. *Nephrology Dialysis Transplantation*. 28(10):2477-2483. (SCI)
299. Wu, M.T., Shaw, L.H., Wu, Y.T., Tsai, T.H.\* (2013) Interaction of Acupuncture and Electroacupuncture on the Pharmacokinetics of Aspirin and the Effect of Brain Blood Flow in Rats. *Evidence-Based Complementary and Alternative Medicine*. 2013: 670858. (SCI)
300. Chen, Y.J., Huang, Y.C., Tsai, T.H.\* , Liao, H.F.\* (2014) Effect of Wasabi Component 6-(Methylsulfinyl)hexyl Isothiocyanate and Derivatives on Human Pancreatic Cancer Cells. *Evidence-Based Complementary and Alternative Medicine*. 2014: 494739. (SCI)
301. Tsai, W.J., Shen, C.C., Tsai, T.H., Lin, L.C. (2014) Lignans from the Aerial Parts of *Saururus chinensis*: Isolation, Structural Characterization, and Their Effects on Platelet Aggregation. *Journal of Natural Products*. 77, 125-131. (SCI)
302. Wu, Y.T., Lin, L.C., Tsai, T.H.\* (2014) Determination of rhynchophylline and hirsutine in rat plasma by UPLC-MS/MS after oral administration of *Uncaria rhynchophylla* extract. *Biomedical*

Chromatography. 28: 439–445. (SCI)

303. Tala, S.D., Ou, T.H., Lin, Y.W., Tala, K.S., Chao, S.H., Wu, M.H., Tsai, T.H., Kakadiya, R., Suman, S., Chen, C.H., Lee, T.C., Su, T.L. (2014) Design and synthesis of potent antitumor water-soluble phenyl N-mustard-benzenealkylamide conjugates via a bioisostere approach. *European Journal of Medicinal Chemistry* 76, 155-169. (SCI)

304. Hou, M.L., Chang, L.W., Lin, C.H., Lin, L.C., Tsai, T.H.\* (2014) Determination of bioactive components in Chinese herbal formulae and pharmacokinetics of rhein in rats by UPLC-MS/MS. *Molecules*. 19(4), 4058-4075. (SCI)

305. Lee, C.J., Wu, Y.T., Hsueh, T.Y., Lin, L.C., Tsai, T.H.\* (2014) Pharmacokinetics and oral bioavailability of epimedin C after oral administration of epimedin C and *Herba Epimedii* extract in rats. *Biomedical Chromatography*. 28: 630-636. (SCI)

306. Cheng, S., Lin, L.C., Lin, C.H., Tsai, T.H.\* (2014) Comparative Oral Bioavailability of Geniposide Following Oral Administration of Geniposide, *Gardenia jasminoides* Ellis Fruits Extracts and *Gardenia* Herbal Formulation in Rats. *Journal of Pharmacy and Pharmacology*. 66, 705-712. (SCI)

307. Lee, C.J., Hsueh, T.Y., Lin, L.C., Tsai, T.H.\* (2014) Determination of protein-unbound rhynchiphylline brain distribution by microdialysis and ultra-performance liquid chromatography with tandem mass spectrometry. *Biomedical Chromatography*. 28(6):901-906. (SCI)

308. Lu, C.M., Hou, M.L., Lin, L.C., Tsai, T.H.\* (2014) Development of a microdialysis system to monitor lamivudine in blood and liver for the pharmacokinetic application in herbal drug interaction and the gene expression in rats. *Journal of Pharmaceutical and Biomedical Analysis*. 96, 231-240. (SCI)

309. Kuo, Y.J., Sun, J.S., Rau, G., Chen, C.H., Tsai, T.H., Tsuang, Y.H. (2014) Better Osteoporotic Fracture Healing with Sintered Dicalcium Pyrophosphate (SDCP) Treatment: A Rat Femur Fracture Model. *Journal of Histochemistry & Cytochemistry*. 62(8):565-576. (SCI).

310. Cheng, Y.H., Hung, K.H., Tsai, T.H., Lee, C.J., Ku, R.Y., Chiu, A.W., Chiou, S.H., Liu, C.J. (2014) Sustained delivery of latanoprost by thermosensitive chitosan-gelatin-based hydrogel for controlling ocular hypertension. *Acta Biomaterialia*. 10(10):4360-4366.

311. Hou, M.L., Chang, L.W., Lin, C.H., Lin, L.C., Tsai, T.H.\* (2014) Comparative pharmacokinetics of rhein in normal and loperamide-induced constipated rats and microarray analysis of drug-metabolizing genes. *Journal of Ethnopharmacology*. 155(2), 1291-1299. (SCI).

312. Chen, J.H., Kuo, H.C., Lee, K.F., Tsai, T.H.\* (2014) Magnolol protects neurons against ischemia injury via the downregulation of p38/MAPK, CHOP and nitrotyrosine. *Toxicology and Applied Pharmacology*. 279(3):294-302. (SCI).

313. Ho, J.K., Huo, T.I., Lin, L.C., Tsai, T.H.\* (2014) Pharmacokinetics of ractopamine and its organ distribution in rats. *Journal of Agricultural and Food Chemistry*. 62(38):9273-9278. (SCI).

314. Chang, L.W., Hou, M.L., Hou, Tsai, T.H.\* (2014) Silymarin in Liposomes and Ethosomes: Pharmacokinetics and Tissue Distribution in Free-Moving Rats by High-Performance Liquid Chromatography–Tandem Mass Spectrometry. *Journal of Agricultural and Food Chemistry*. 62 (48), 11657–11665. (SCI).

315. Lu, C.M., Lin, L.C., Tsai, T.H.\* (2014) Determination and pharmacokinetic study of gentiopicoside, geniposide, baicalin, and swertiamarin in Chinese herbal formulae after oral administration in rats by LC-MS/MS. *Molecules*. 19(12): 21560-21578. (SCI)

316. Lin, S.I., Tsai, T.H., Chou, Y.J., Huang, N. (2015) Characteristics Associated with Utilization of Asthma-Related Traditional Chinese Medicine Services among Asthma Children in Taiwan: A Nationwide Cohort Study. *Evidence-Based Complementary and Alternative Medicine*. 2015: 108961. (SCI)

317. Ting, C.T., Li, W.C., Chen, C.Y., Tsai, T.H.\* (2015) Preventive and therapeutic role of traditional Chinese herbal medicine in hepatocellular carcinoma. *Journal of the Chinese Medical Association*. 78 (3): 139-144. (SCI).

318. Lin, L.C., Pai, Y.F., Tsai, T.H.\* (2015) Isolation of luteolin and luteolin-7-O-glucoside from *Dendranthema morifolium* Ramat Tzvel and their pharmacokinetics in rats. *Journal of Agricultural and Food Chemistry*. 63, 7700-7706. (SCI)

319. Chiang, M.H., Chang, L.W., Wang, J.W., Lin, L.C., Tsai, T.H.\* (2015) Herb-drug pharmacokinetic interaction of a traditional Chinese medicine Jia-Wei-Xiao-Yao-San with 5-fluorouracil in the blood and brain of rat using microdialysis. *Evidence-Based Complementary and Alternative Medicine*. Volume 2015, Article ID 729679. (SCI)

320. Tsai, T.H. Chen, Y.J. Chen, Hou, M.L., Wang, L.Y., Tai, H.C., Hsieh, C.H. (2015) Pelvic irradiation modulates the pharmacokinetics of cisplatin in the plasma and lymphatic system. *American Journal of Translational Research*. 7(2):375-384. (SCI).

321. Chang, L.W., Hou, M.L., Hung, S.H., Lin, L.C., Tsai, T.H.\* (2015) The pharmacokinetics of quercetin-loaded nanodroplets with ultrasound activation and their use for bioimaging. *International Journal of Nanomedicine*. 10: 3031–3042. (SCI)

322. Hsieh, C.H., Hou, M.L., Wang, L.Y., Tai, H.C., Tsai, T.H.\* Chen, Y.J.\* (2015) Local pelvic irradiation modulates Pharmacokinetics of 5-Fluorouracil in the plasma but not in the Lymphatic System. *BMC Cancer*. 15:316. (SCI).

323. Chang, C.H., Liu, S.Y., Chi, C.W., Yu, H.L., Chang, T.J., Tsai, T.H., Lee, T.W., Chen, Y.J. (2015) External beam radiotherapy

synergizes 188Re-liposome against human esophageal cancer xenograft and modulates 188Re-liposome pharmacokinetics. *International Journal of Nanomedicine*, 10:3641-3649. (SCI)

324. Chang, L.W., Hou, M.L., Lin, L.C., Tsai, T.H.\* (2015) Healthy supplements of silymarin and aqueous extract of *Salvia miltiorrhiza* on the pharmacokinetic interaction of lamivudine in rats. *Journal of Functional Food*. 17, 163–171. (SCI)

325. Chen, J.H., Kuo, H.C., Lee, K.F., Tsai, T.H.\* (2015) Global Proteomic Analysis of Brain Tissues in Transient Ischemia Brain Damage in Rats. *International Journal of Molecular Sciences*. 16, 11873-11891. (SCI).

326. Lai, K.M., Cheng, Y.Y., Tsai, T.H.\* (2015) The integrated analytical systems of LC-MS/MS and physical inspection for the analysis of a botanical herbal preparation. *Molecules*. 20(6), 10641-10656. (SCI)

327. Chen, C.H., Chiang, C.J., Wu, L.C., Yang, C.H., Kuo, Y.J., Tsai, T.H.\* (2015) In vitro penetration and in vivo Distribution of Honokiol into the Intervertebral disc in Rat. *Analytical Sciences*. 31, 1297-1302. (SCI)

328. Tsai, J.J., Kuo, H.C., Lee, K.F., Tsai, T.H.\* (2015) Proteomic analysis of plasma from rats following total parenteral nutrition-induced liver injury. *Proteomics*. 15, 3865-3874. (SCI)

329. Hou, M.L., Lin, C.H., Lin, L.C., Tsai, T.H.\* (2015) The drug-drug effects of rhein on the pharmacokinetics and pharmacodynamics of clozapine in rat brain extracellular fluid by in vivo microdialysis. *Journal of Pharmacology and Experimental Therapeutics*. 355, 125-134. (SCI)

330. Hung, S.C., Kuo, K.L., Huang, H.L., Lin, C.C., Tsai, T.H., Wang, C.H., Chen, J.W., Lin, S.J., Huang, P.H., Tarng, D.C. (2016) Indoxyl sulfate suppresses endothelial progenitor cell-mediated neovascularization. *Kidney International*. 89(3), 574-585. (SCI)

331. Wang, J.W., Chiang, M.H., Lu, C.M., Tsai, T.H.\* (2016) Determination the active compounds of herbal preparation by UHPLC-MS/MS and its application on the preclinical pharmacokinetics of pure compound ephedrine, single herbal extract of Ephedra, and a multiple herbal preparation in rats. *Journal of Chromatography B*. 1026, 152-161. (SCI)

332. Hsueh, T.Y., Ho, J.K., Lin, L.C., Chiu, A.W., Lin, C.H., Tsai, T.H.\* (2016) Herb-drug interaction of *Epimedium* extract on the pharmacokinetic of dapoxetine in rat. *Journal of Chromatography B*. 1014, 64-69. (SCI)

333. Hou, M.L., Lu, C.M., Tsai, T.H.\* (2016) Effects of Jia-Wei-Xiao-Yao-San on the peripheral and lymphatic pharmacokinetics of paclitaxel in rats. *Evidence-Based Complementary and Alternative Medicine*. Article ID 5614747, 10 pages. (SCI)

334. Hou, M.L., Lu, C.M., Lin, C.H., Lin, L.C., Tsai, T.H.\* (2016) Pharmacokinetics of maleic acid as a food adulterant determined by microdialysis in rat blood and kidney cortex. *Molecules*. 21(3), 367, 1-12. (SCI)
335. Cheng, Y.Y., Tsai, T.H.\* (2016) A validated LC-MS/MS determination method for the illegal food additive rhodamine B: Applications of a pharmacokinetic study in rats. *Journal of Pharmaceutical and Biomedical Analysis*. 125, 394-399. (SCI)
336. Lee, Y.L., Li, W.C., Tsai, T.H., Chiang, H.Y., Ting, C.T. (2016) Body Mass Index and Cholesterol Level Predict Surgical Outcome in Patients with Hepatocellular Carcinoma in Taiwan - a Cohort Study. *Oncotarget*. 7(16), 22948-22959. (SCI)
337. Huang, W.C., Chan, M.L., Chen, M.J., Tsai, T.H.\*, Chen, Y.J.\* (2016) Modulation of Macrophage Polarization and Lung Cancer Cell Stemness by MUC1 and Development of a Related Small-Molecule Inhibitor Pterostilbene. *Oncotarget*. 7(26), 39363-39375. (SCI)
338. Wu, H.T., Wu, H.K., Wang, C.L., Tang, Y.L., Wu, W.H., Tsai, T.H., Chang, H.H. (2016) Modeling the Pulse Signal by Wave-Shape Function and Analyzing by Synchrosqueezing Transform. *Plos One*. 0157135, 1-20. (SCI)
339. Chen, C.W., Wu, M.H., Chen, Y.F., Yen, T.Y., Lin, Y.W., Chao, S.H., Tala, S., Tsai, T.H., Su, T.L., Lee, T.C. (2016) A Potent Derivative of Indolizino[6,7-b] Indole for Treatment of Human Non-Small Cell Lung Cancer Cells. *Neoplasia*. 18(4):199-212. (SCI)
340. Chen, C.H., Chiang, C.J., Wu, L.C., Yang, C.H., Kuo, Y.J., Tsuang, Y.H., Tsai, T.H.\* (2016) Time Course Investigation of Intervertebral Disc Degeneration in a Rat-tail Puncture Model. *Life Sciences*. 156, 15-20. (SCI)
341. Cheng, Y.Y., Tsai, T.H.\* (2016) Analysis of a ginseng containing multiple components traditional Chinese herbal medicine, Sheng-Mai-San, using liquid chromatography tandem mass spectrometry and physical examination by electron and light microscopies. *Molecules*. 21, 1159, 1-16. (SCI)
342. Chen, S.T., Lee, T.Y., Tsai, T.H., Lin, Y.C., Lin, C.P., Shieh, H.R., Hsu, M.L., Chi, C.W., Lee, M.C., Chang, H.H., Chen, Y.J. (2016) The Traditional Chinese Medicine DangguiBuxue Tang Sensitizes Colorectal Cancer Cells to Chemoradiotherapy. *Molecules*. 21, 1677, 1-16. (SCI)
343. Li, T.H., Lee, P.C., Lee, K.C., Hsieh, Y.C., Tsai, C.Y., Yang, Y.Y., Huang, S.F., Tsai, T.H., Hsieh, S.L., Hou, M.C., Lin, H.C., Lee, S.D. (2016) Down-regulation of common NF $\kappa$ B-iNOS pathway by chronic Thalidomide treatment improves Hepatopulmonary Syndrome and Muscle Wasting in rats with Biliary Cirrhosis. *Scientific Reports*. 2016 Dec 23;6:39405. 1-14. (SCI)



344. Chiou, C.T., Shen, C.C., Tsai, T.H., Chen, Y.J., Lin, L.C. (2016) Meroterpenoids and Chalcone-Lignoids from the Roots of *Mimosa diplotricha*. *Journal of Natural Products*. 2016 Oct 28;79(10):2439-2445. (SCI)
345. Liao, W.Y., Tsai, T.H., Ho, T.Y., Lin, Y.W., Cheng, C.Y., Hsieh, C.L. (2016) Neuroprotective Effect of Paeonol Mediates Anti-Inflammation via Suppressing Toll-Like Receptor 2 and Toll-Like Receptor 4 Signaling Pathways in Cerebral Ischemia-Reperfusion Injured Rats. *Evidence-Based Complementary and Alternative Medicine*, vol. 2016, Article ID 3704647, 1-12. (SCI)
346. Liu, Y.M., Liu, Y.K., Wang, L.W., Huang, Y.C., Huang, P.I., Tsai, T.H.\*, Chen, Y.J.\* (2016) The medicinal fungus *Antrodia cinnamomea* regulates DNA repair and enhances the radiosensitivity of human esophageal cancer cells. *OncoTargets and Therapy*. 2016 Oct 27;9:6651-6661. (SCI)
347. Hsueh, T.P., Lin, W.L., Tsai, T.H.\* (2016) Using Light Microscopy and Liquid Chromatography Tandem Mass Spectrometry for Qualitative and Quantitative Control of a Combined Three-Herb Formulation in Different Preparations. *Molecules*. 2016 Dec 6;21(12). pii: E1673. (SCI)
348. Wu, H.K., Ko, Y.S., Lin, Y.S., Wu, H.T., Tsai, T.H.\*, Chang, H.H.\* (2017) The correlation between pulse diagnosis and constitution identification in traditional Chinese medicine. *Complementary Therapies In Medicine*. 30: Feb 107-112. (SCI)
349. Ting, C.T., Kuo, C.J., Hu, H.Y., Lee, Y.L.\*, Tsai, T.H.\* (2017) Prescription Frequency and Patterns of Chinese Herbal Medicine for Liver Cancer Patients in Taiwan: a cross-sectional analysis of the National Health Insurance Research Database. *BMC Complementary and Alternative Medicine*. 17: 118. (SCI)
350. Su, N.W., Wu, S.H., Chi, C.W., Liu, C.J., Tsai, T.H.\*, Chen, Y.J.\* (2017) Metronomic Cordycepin Therapy Prolongs Survival of Oral Cancer-Bearing Mice and Inhibits Epithelial-Mesenchymal Transition. *Molecules*. 22(4): E629. doi: 10.3390/molecules22040629. (SCI)
351. Hsueh, T.P., Lin, W.L., Tsai, T.H.\* (2017) Pharmacokinetic interactions of herbal medicines for the treatment of chronic hepatitis. *Journal of Food and Drug Analysis*. 25: 209-218.
352. Cheng, Y.Y., Tsai, T.H.\* (2017) Pharmacokinetics and Biodistribution of the Illegal Food Colorant Rhodamine B in Rats. *Journal of Agricultural and Food Chemistry*. Feb 8; 65(5):1078-1085. (SCI)
353. Huang, J.T., Cheng, Y.Y., Lin, L.C., Tsai, T.H.\* (2017) Structural pharmacokinetics of polymethoxylated flavones in rat plasma using HPLC-MS/MS. *Journal of Agricultural and Food Chemistry*. Mar 22; 65 (11): 2406-2413. (SCI)
354. Ting, C.T., Cheng, Y.Y., Tsai, T.H.\* (2017) Herb-drug interaction

between the traditional hepatoprotective formulation and sorafenib on hepatotoxicity, histopathology and pharmacokinetics in rats.

Molecules. 2017, Jun 22; 22(7). pii: E1034.

doi:10.3390/molecules22071034. (SCI)

355. Chen, S.T., Lee, T.Y., Tsai, T.H., Huang, Y.C., Lin, Y.C., Lin, C.P., Shieh, H.R., Hsu, M.L., Chi, C.W., Lee, M.C., Chang, H.H., Chen, Y.J.

(2017) Traditional Chinese medicine Danggui Buxue Tang inhibits colorectal cancer growth through induction of autophagic cell death.

Oncotarget. 2017 Aug 3; 8(51):88563-88574. (SCI)

356. Jiang, S.H., Cheng, Y.Y., Huo, T.I., Tsai, T.H.\* (2017)

Pharmacokinetics of Rhodamine 110 and Its Organ Distribution in Rats. Journal of Agricultural and Food Chemistry. 2017 Sep

6;65(35):7797-7804. (SCI)

357. Chen, Y.J., Tsai, T.H., Wang, L.Y., Hsieh, C.H. (2017) Local

Radiotherapy Affects Drug Pharmacokinetics—Exploration of a Neglected but Significant Uncertainty of Cancer Therapy. Technology

in Cancer Research & Treatment. Dec;16(6):705-716. (SCI)

358. Liu, J.H., Cheng, Y.Y., Hsieh, C.H., Tsai, T.H.\* (2017)

Identification of a Multicomponent Traditional Herbal Medicine by HPLC–MS and Electron and Light Microscopy. Molecules. 22(12).

pii: E2242. doi: 10.3390/molecules 22122242. (SCI)

359. Liu, J.H., Cheng, Y.Y., Hsieh, C.H., Tsai, T.H.\* (2018) The Herb–

Drug Pharmacokinetic Interaction of 5-Fluorouracil and Its Metabolite 5-Fluoro-5,6-Dihydrouracil with a Traditional Chinese Medicine in

Rats. International Journal of Molecular Sciences. 19(1), 25. pii: E25.

doi: 10.3390/ijms19010025. (SCI)

360. Li, C.L., Cheng, Y.Y., Hsieh, C.H., Tsai, T.H.\* (2018)

Pharmacokinetics of Schizandrin and Its Pharmaceutical Products Assessed Using a Validated LC–MS/MS Method. Molecules. 23(1).

173; doi:10.3390/molecules23010173. (SCI)

361. Huang, W.C., Kuo, K.T., Adebayo, B.O., Wang, C.H., Chen, Y.J.,

Jin, K., Tsai, T.H.\*, Yeh, C.T.\* (2018) Garcinol inhibits cancer stem cell-like phenotype via suppression of the Wnt/ $\beta$ -catenin/STAT3 axis

signalling pathway in human non-small cell lung carcinomas. Journal of Nutritional Biochemistry. 54:140-150. (SCI)

362. Cheng, Y.Y., Hsieh, C.H., Tsai, T.H.\* (2018) Concurrent

administration of anticancer chemotherapy drug and herbal medicine on the perspective of pharmacokinetics. Journal of Food and Drug

Analysis. Apr;26(2S):S88-S95. (SCI)

363. Chang, C.W., Liu, C.Y., Lee, H.C., Huang, Y.H., Lee, L.H.,

Chiau, J.S.C., Wang, T.E., Chu, C.H., Shih, S.C., Tsai, T.H.\* , Chen, Y.J.\* (2018) Lactobacillus casei Variety rhamnosus Probiotic

Preventively Attenuates 5-Fluorouracil/ Oxaliplatin- Induced Intestinal Injury in a Syngeneic Colorectal Cancer Model. Frontiers in

Microbiology. 9:983 doi: 10.3389/fmicb.2018.00983 (SCI).

364. Liu, Y.M., Liu, Y.K., Huang, P.I., Tsai, T.H.\* , Chen, Y.J.\* (2018) Antrodia cinnamomea mycelial fermentation broth inhibits the epithelial-mesenchymal transition of human esophageal adenocarcinoma cancer cells. Food Chem Toxicol. 119, Sep. 380-386. (SCI)

365. Huang, A.C., Yeh, K.Y., Cheng, Y.Y., Dubey, N.K., Chiu, A.W., Tsai, T.H.\* (2018) Investigation of Interactive Activity of Electro-Acupuncture on Pharmacokinetics of Sildenafil and Their Synergistic Effect on Penile Blood Flow in Rats. International Journal of Molecular Sciences. 19, 2153; doi:10.3390/ijms19082153. (SCI)

366. Huang, M.C., Hsueh, T.Y., Cheng, Y.Y., Lin, L.C., Tsai, T.H.\* (2018) Pharmacokinetics and Biliary Excretion of Fisetin in Rats. Journal of Agricultural and Food Chemistry. 66, Jun 6300-6307. (SCI)

367. Hsueh, T.P., Tsai, T.H.\* (2018) Preclinical Pharmacokinetics of Scoparone, Geniposide and Rhein in an Herbal Medicine Using a Validated LC-MS/MS Method. Molecules. 23, Oct 22;23(10). pii: E2716. (SCI)

368. Huang, A.C., Wu, J.M., Chang, Y.H., Dubey, N.K., Chiu, A.W., Yeh, C.Y., Tsai, T.H.\* , Yeh, K.Y.\* (2019) Neuronal nitric oxide synthase activity mediates Lycium barbarum polysaccharides-enhanced sexual performance without stimulating noncontact erection in rats. Psychopharmacology. 236, (4), 1293–1301. (SCI)

369. Su, N.W., Wu, S.H., Chi, C.W., Tsai, T.H.\* , Chen, Y.J.\* (2019) Cordycepin, isolated from medicinal fungus Cordyceps sinensis, enhances radiosensitivity of oral cancer associated with modulation of DNA damage repair. Food Chem Toxicol. 2019 Feb;124:400-410. doi: 10.1016/j.fct.2018.12.025. (SCI)

370. Li, C.L., Tsuang, Y.H., Tsai, T.H.\* (2019) Neuroprotective effect of Schisandra chinensis on methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced parkinsonian syndrome in C57BL/6 mice. Nutrients. 11, 1671; doi:10.3390/nu11071671. (SCI)

\*Corresponding Author

#### BOOK EDITOR

Tsai, T.H. (2011) Editor, Applications of microdialysis in pharmaceutical science. John Wiley & Sons, Inc.

#### BOOK CHAPTERS

Wu, Y.T., Tsai, T.H. (2006) Microdialysis coupled to mass spectrometry: principles and applications, In Wilfried M.A. Nissen (Editor) The encyclopedia of mass spectrometry. Elsevier, pp.352-359.  
Tsai, T.H. (2007) Assaying protein-unbound drugs using microdialysis techniques, In Ben H.C. Westerink, Thomas, I.F.H. Cremers (Editors) Handbook of microdialysis, methods, applications and clinical aspects. Elsevier, pp. 573-587.

Wu, J.W., Tsai, T.H. (2008) Absorption, distribution, metabolism and excretion of caffeine, In Frank Columbus (Editor) Caffeine and Health Research. Nova Science Publishers, Inc., Chapter VI, pp. 161-170.

Tsai, T.H. (2011) Introduction to applications of microdialysis in pharmaceutical science, In Tung-Hu Tsai (Editor) applications of microdialysis in pharmaceutical science. John Wiley & Sons, Inc., pp. 1-6.

Wu, Y.T., Tsai, T.H. (2011) Microdialysis in the hepatobiliary system: monitoring drug metabolism, hepatobiliary excretion, and enterohepatic circulation, In Tung-Hu Tsai (Editor) applications of microdialysis in pharmaceutical science. John Wiley & Sons, Inc., pp. 275-294.

Lee, W.C., Tsai, T.H. (2011) In vitro applications of microdialysis, In Tung-Hu Tsai (Editor) applications of microdialysis in pharmaceutical science. John Wiley & Sons, Inc., pp. 445-465.

## PATENTS

中華民國，專利證書。新型第 M 476577 號。新型名稱：微透析探針。專利權人：國立陽明大學。新型創作人：蔡東湖、江孟萱。專利權期間：自 2014 年 4 月 21 日至 2023 年 11 月 11 日。

中華民國，專利證書。新型第 M 476578 號。新型名稱：多岔型微透析探針。專利權人：國立陽明大學。新型創作人：蔡東湖、張杏怡。專利權期間：自 2014 年 4 月 21 日至 2023 年 11 月 11 日。

中華人民共和國，實用新型專利證書。證書號第 3596588 號。實用新型名稱：並聯式微透析管結構體。發明人：謝硯如、蔡東湖、陳昌陽。專利號: ZL 2013 2 0814836.6 號。專利權人：財團法人生物技術開發中心。專利權期間：自 2014 年 6 月 4 日至 2024 年 6 月 3 日。