

ABRIDGED CURRICULUM VITAE WITH REPRESENTATIVE PUBLICATIONS

Professor Kelvin CHAN (UK citizen; married with 2 children)

Present Position:

Joint Chair Professor of Traditional Chinese Medicine in Faculty of Pharmacy, University Sydney and College of Health & Science, University of Western Sydney, Australia (email: kelvin.chan@sydney.edu.au & k.chan@uws.edu.au)

Qualifications:

BSc (Pharmacy) Liverpool JM University, UK; **MSc** (Pharmaceutical Sciences) University of Aston, UK; **PhD** (Clinical Pharmacology) and **Doctor of Science** (Pharmacology) University of Birmingham, Birmingham, UK.

Professional Fellowships:

FSB/CBIol (Fellow/Chartered Biologist, Society of Biology, UK); **FCP** (Fellow/Chartered Clinical Pharmacologist, Amer. College of Clinical Pharmacology, USA) **FRPharmS** (Fellow/Registered Pharmacist Royal Pharmaceutical Society of Great Britain); **FRSM** (Fellow of Royal Society of Medicine, UK)

Professional Experience:

Industrial Pharmacist (1970, Evans Medical Ltd, UK); **Hospital Pharmacist** (1971, West Midlands Health Authority, UK); **Research Pharmacist** (1973, Medical Faculty, University of Birmingham, UK); **Post-doctorate Pharmacologist** (1975, Medical Faculty, University of Liverpool, UK); **Lecturer/Senior Lecturer** (1976, School of Pharmacy, Liverpool Polytechnic, UK); **SL/Reader in Pharmacology** (1981, Medical Faculty, Chinese University of Hong Kong, Hong Kong); **Director & Chair Professor of Pharmacy & Biomedical Sciences** (1992, School of Pharmacy, Liverpool John Mores University, UK); **Director & Chair Professor of Biomedical Sciences** (1997, Zayed Complex for Herbal Research, Ministry of Health, Abu Dhabi, UAE); **Director & Chair Professor of Biomedical Sciences** (2000, Institute for Advancement of Chinese Medicine, Baptist University, Hong Kong); **Head and Chair Professor of Pharmacy & Pharmacology** (2005-2007) **Director of Research & Development in Pharmacy & Pharmaceutical Sciences** (2008 to 2009), University of Wolverhampton, UK; **Joint Chair Professor of Traditional Chinese Medicine** in University of Sydney and University of Western Sydney, Australia from 1st December 2009 to present.

Research Achievement & Interests:

Currently Professor Chan has published over 500 academic articles included in 3 books (Editor), book chapters, conference presentations, monographs, peer-reviewed full papers and reviews in peer-reviewed journals on the following fields: - Biomedical & Pharmaceutical Analysis of Drugs and Chemical Ingredients in Medicinal Plants; Variability in Clinical Pharmacology & Pharmacokinetics, Pharmacological & Toxicological Models for Activity Screening for Drugs and Herbal Extracts; Interactions between Pharmaceuticals & Chinese Medicinal Materials (CMM), and R & D, Clinical Trials and Quality Control of CMM; Biomarker Monitoring and Quality of Life Studies of Chinese medicines and herbal products.

Other Academic Awards:

Recipient of British Pharmaceutical Conference **Science Award**, 1982; Recipient of Distinguished **Leadership Award** in Pharmacology, American Biographical Institute, 1988; **Churchill Fellow** of Winston Churchill Memorial Trust UK, 1995.

Other International Connections:

Visiting Professorship: JiNan University, China (2007 to present); Institute of Medicinal Plant Development, Beijing, China, (1998-present); Key Laboratory of Analytical Sciences, Qing Dao National First Marine Institute, Shan Dong Province, China (2005 to 2010); Key Laboratory of Analytical Sciences, Ministry of Education of China, Xiamen University, China (2003 to 2008); Institute of Pharmacognosy & Pharmacy, University of Vienna, Austria (2004-2005)

Expert Member: International Advisory Board of the Hong Kong Chinese Materia Medica Standards, Dept of Health Hong Kong SAR, China (2003-present); the Biology & Medicine Panel, Research Grant Council, University Grant Council, Hong Kong SAR, China (2002-2009); Expert Advisory Group HCM: Herbal & Complimentary Medicines (MHRA, UK 2006-2010); Member of Working Party on Traditional Chinese Medicines of the European Pharmacopoeia Commission, European Directorate for the Quality of Medicines & Healthcare (December 2007 to 2009); International Advisory Board of TCM Research Center in Graz, Austria (May 2009 to present)

Editor & Editorial Member: The e-Journal of Complementary & Integrative Medicine, California (Editor, 2004-present); Methods & Findings in Experiment & Clinical Pharmacology, Barcelona (UK Regional Editor, 1979-present); Drug Metabolism & Drug Interactions, London (1988-present); European J. Drug Metabolism & Pharmacokinetics, Geneva (1996-2000); Chinese Traditional Herbal Drugs, Tianjing (1998-2002); Chinese Journal of Integrative Medicine, Beijing (2000-present); Chinese Journal of Antibiotics (2000 to present).

Representative publications:

1. **Chan K**, Leung KSY, Zhao SS (2009) Harmonization of monographic standards is needed to ensure the quality of Chinese medicinal materials. *BioMed-Chinese Medicine*, 4:18.
2. Zhang L, Yu H, Li WM, Cheung MC, Pang YP, Gu ZM, **Chan K**, Wang YT, Zuo Z, Han YF (2008) Preclinical characterization of intestinal absorption and metabolism of promising anti-Alzheimer's dimer bis(7)-tacrin. *International Journal of Pharmaceutics*. 357: 85-94.
3. Tin MMY, Cho CH, **Chan K**, James AE & Ko JKS. (2007) Astragalus saponins induce growth inhibition and apoptosis in human colon cancer cells and tumor xenograft. *Carcinogenesis* 28 (6): 1347-1355.
4. Fang Kai-Tai, Liang Yi-Zhen, Yin Xiao-lin, Chan Kelvin, Lu Guang-Hua (2006) Critical value determination on similarity of fingerprints. *Chemometrics and Intelligent Laboratory System*. 2006, 82: 236-240.
5. Leung Kar Wah, Cheng Yuen-Kit, Mak Nai Ki, **Chan Kelvin**, Fan TP David, Wong Ricky NS (2006) Signaling pathway of ginsenoside-Rg1 leading to nitric oxide production in endothelial cells. *FEBS Letters*, **580**, 3211-3216.
6. Cheung TP, Xue C, Leung K, **Chan K** & Li CG (2006) Aristolochic acids detected in some raw Chinese medicinal herbs and manufactured herbal products-A consequence of inappropriate nomenclature and imprecise labelling? *Clinical Toxicology* 44: 371-378.
7. Liu H-X, Sun S-Q, Lu G-H & **Chan K** (2006) Study on *Angelica* and its different extracts by Fourier transform infrared spectroscopy and two-dimensional correlation IR spectroscopy. *Spetrochimica acta part A*: 64: 321-326.
8. Ha WY, Lau CC, Yue PYK, Hung KKM, **Chan K**, Chui SH, Chui AKK, Yam WC & Wong RNS (2006) Simultaneous detection of precore/basal core promoter mutations in hepatitis B virus using arrayed primer extension. *Molecular Diagnosis & Therapy*: 10 (2), 125-134.
9. **Chan K** Liu ZQ. Jiang ZH. Zhou H. Wong YF. Xu HX. Liu L (2006). The effects of sinomenine on intestinal absorption of paeoniflorin by the everted rat gut sac model. *Journal of Ethnopharmacology*. 103: 425-432.
10. Yi T, Leung, K S-Y, Lu G-H, Chan K & Zhang H (2006) Simultaneous qualitative and quantitative analysis of the major constituents in the *Rhizome Ligusticum Chuanxiong* using HPLC-DAD-MS. *Chemical & Pharmaceutical Bulletin*. 54 (2) 255-259.
11. Zhao L & **Chan K** (2005) Building a bridge for integrating Chinese medicine into conventional healthcare: Observations drawn from the Chinese Quality of Life Instrument development. *American Journal of Chinese Medicine*, 33: 897-902.
12. Yue PYK, Wong YL, Ha WY, Fung, MC, Mak NK, Yeung HW, Liu L, **Chan K**, Fan TP and Wong, R.N.S. (2005) "Elucidation of mechanisms underlying the angiogenic effects of ginsenoside Rg1 *in vitro* and *in vivo*" *Angiogenesis* 8(3): 205-216.
13. **Chan K** (2005). Chinese medicinal materials and their interface with Western medical concepts. *Journal of Ethnopharmacology*, 96 (2005) 1-18.
14. Lu GH & **Chan K** et al (2005) Development of high-performance liquid chromatographic fingerprints for distinguishing Chinese *Angelica* from related umbelliferae herbs. *Journal of Chromatography A*. 1073, 1-2, 383-392.
15. Leung K SY, **Chan K**, Chan, CL & G-H Lu, (2005) Systematic Evaluation of Organochlorine Pesticide Residues in Chinese Materia Medica. *Phytotherapy Research*, 19:514-518.
16. Chui SH, **Chan K**, Chui AKK, Shek LSL & Wong RNS (2005). The effects of a Chinese medicinal suppository (Vitaliver) on insulin-like growth factor-1 and homocysteine in patients with hepatitis B infection. *Phytotherapy Research*, 19: 674-678.
17. Leung K SY Chan C L & Lau AC **Chan, K**. (2005) Measurement Uncertainty for Total Ash and Acid-Insoluble Ash Determination of Chinese Materia Medica. *Accreditation and Quality Assurance* 10:289-294.
18. Liu ZQ, Zhou H, Liu L, Jiang ZH, Wong, YF, Xiea Y, Cai X, Xu HX, & **Chan, K**. (2005) Influence of co-administrated sinomenine on pharmacokinetic fate of paeoniflorin in unrestrained conscious rats. *Journal of Ethnopharmacology*, 99:61-67.
19. Leung KF, Liu FB, Zhao L, Fang JQ, **Chan K** & Lin LZ (2005) Development and validation of the Chinese Quality of Life Instrument. *Health and Quality of Life Outcomes*, 3:26, 1-19.
20. Liang YZ, Xie PS & **Chan K** (2004) Quality control of herbal medicines. *J. Chromatograph. B.*, 812, 1-2, 53-70.
21. Chui, SH., **Chan, K.**, & Wong, RNS. (2004) A panel study on the effects of a Chinese medicinal suppository, Vigconic VI-28, on insulin-like growth factor-1 and homocysteine in healthy men. *Methods and Findings in Experimental and Clinical Pharmacology*, 26(5): 349 – 355.
22. **Chan K** et al (2004) Protective effects of Danshensu from the aqueous extract of *Salvia miltiorrhiza* (Danshen) against homocysteine-induced endothelial dysfunction. *Life Sciences*, 75: 3157 – 3171.
23. **Chan K** (2003). Some aspects of toxic contaminants in herbal medicines. *Chemosphere*, 52, 1361-1371.
24. **Chan K** & Lee H (2002) *The Way Forward for Chinese Medicine*, Harwood Academic Publishers, The Taylor and Francis Group, January 2002, ISBN: 0-415-27720-5.
25. **Chan K** & Cheung L (2000) *Interactions between Chinese Herbal Medicinal Products and Orthodox Drugs*, Harwood Academic Publishers, The Taylor & Francis Group, June, 2000, ISBN: 90-5702-413-6.
26. **Chan K** et al (1995). The effects of Danshen (*Salvia miltiorrhiza*) on warfarin pharmacodynamics and pharmacokinetics of warfarin enantiomers in rats. *Journal of Pharmacy & Pharmacology*, 47: 402-406.
27. **Chan K** & Jones RDM (1993). Simultaneous determination of flumazenil, midazolam and metabolites in human biological fluids by liquid chromatography. *J. Chromatograph. Biomed. Appl.*, 619: 154-160.
28. Xu G-J & **Chan, K** (1994). *A Pictorial Compendium of Poisonous Traditional Chinese Medicinal Herbs Available in Hong Kong*, Commercial Press, Ltd, Hong Kong, June, 1994. ISBN: 962-07-3136-0.
29. **Chan, K** (1989). Predicting plasma concentrations of bupivacaine after epidural administration in obstetric analgesia. *Therapeutic Drug Monitoring*. 11: 567-571.