

Curriculum Vitae of Quan Zhu

Distinguish Professor

State Key Laboratory for Quality Research in Chinese Medicines
Macau University of Science and Technology



Professor Zhu obtained the Bachelor from Nanjing University of Traditional Chinese Medicine in 1968 and Master degrees from China Academy of Chinese Medicine in 1981 respectively. As a visiting scholar trained in Cyto-pharmacology at Faculty of Pharmacy, University of Toronto, Canada from 1989-1992, he joined the Faculty of Chinese Medicine at Nanjing University of Traditional Chinese Medicine in 1981, as an assistant professor, associate professor and full professor until 2005. He moved to Macau University of Science and Technology (MUST), as visiting professor and distinguish professor for teaching Pharmacology and Research in State Key Laboratory for Quality Research in Chinese Medicines at Macau university of science and technology (MUST).

Prof. Zhu's research fields include pharmacology and toxicology of Chinese medicinal. He has published more than 50 papers in SCI journals. He has been focused on the cyto-membrane immobilized chromatography for probing the effect-chemical relationship in Traditional Chinese Medicine and pharmacology at the complications of diabetic nephropathy. He has outstanding contribution on the R&D in Chinese Medicine at pharmaceutical industries.

Education:

Sept.1968, B. Sc. (Nanjing University of traditional Chinese Medicine, Nanjing, China)

Oct,1981, M. Sc. (China Academy of Traditional Chinese Medicine , Beijing, China)

Professional Chronology:

- Oct.1981- Oct., 1982 Lecturer, Nanjing University of Traditional Chinese Medicine, Nanjing, China
- Oct.1984-Sept. 1986 Associate Professor, Nanjing University of Traditional Chinese Medicine, Nanjing, China
- Oct.1989-Sept.1992 Visiting scholar at faculty of pharmacy at Toronto University, Canada.
- Oct.1993-Nov.2005 Professor, Nanjing University of Traditional Chinese Medicine, Nanjing, China
- Nov.2005-present Visiting Professor and distinguish Professor at Macau University of Science and Technology

Teaching Subjects:

- 1) Pharmacology, toxicology
- 2) Methodology in pharmacology and toxicology

Research Fields:

- 1) Pharmacology in diabetic micro-angiopathy complications
- 2) Cyto-membrane immobilized chromatography in Traditional Chinese Medicine research

Selected Publications:

- 1) HONG M, ZHU Q. Macrophages are activated by 17 β -estradiol: possible permission role in endometriosis. *Experimental and Toxicologic Pathology*. 2004;55(5):385-91.
- 2) 洪敏, 余黎, 华永庆, 朱荃. 雌二醇对巨噬细胞的激活作用. *中国病理生理杂志*, 2004, 20(4):566-70.
- 3) Li Shaoping, Li Ping, Ji Hui, Zhu Quan, Tina T.X. Dong and Karl W.K. Tsim. The Nucleosides Contents and Their Variation in Natural Cordyceps sinensis and Cultured Cordyceps Mycelia. *Journal of Chinese Pharmaceutical Sciences*, 2001, 10

(4) :175-179.

- 4) 朱荃, 细胞膜固相色谱技术及其在中医药效应物质基础分析中的应用 南京中医药大学学报 2006 (2) : 22
- 5) Z.B. Donga, S.P. Li a,b,□, M. Honga, Q. Zhua Hypothesis of potential active components in *Angelica sinensis* by using biomembrane extraction and high performance liquid chromatography *Journal of Pharmaceutical and Biomedical Analysis* 38 (2005) 664–669
- 6) Li Yu Jing Zhao Shao Ping Li1, Hui Fan Min Hong Yi Tao Wang Quan Zhu , Quality evaluation of *Cordyceps* through simultaneous determination of eleven nucleosides and bases by RP-HPLC *J. Sep. Sci.* 2006, 29, 953 – 958
- 7) Long Chen , Linlin Wang a, Bin Xu a, Guangxia Ni a, Li Yua, Bin Han b, Xiaochun Yu c, Kelin Wang c, Yueyang Lai d, Shuyuan Zhou a, Quan Zhu a , Mechanisms of α 1-adrenoceptor mediated QT prolongation in the diabetic rat heart. *Life Sciences* 84 (2009) 250–256
- 8) Xu Y H, Wang S S, Feng L, Zhu Q, Xiang P, He B: Blockade of PKC-beta protects HUVEC from advanced glycation end products induced inflammation. *1 Int Immunopharmacol.* 2010 Dec;10(12):1552-9.
- 9) Zheng ZG, Wang RS, Cheng HQ, Duan TT, He B, Tang D, Gu F, Zhu Q. Isolated perfused lung extraction and HPLC-ESI-MS(n) analysis for predicting bioactive components of *Saposhnikoviae Radix*. *Pharm Biomed Anal.* 2011 Feb 20;54(3):614-8.
- 10) Tang D, He B, Zheng ZG, Wang RS, Gu F, Duan TT, Cheng HQ, Zhu Q Inhibitory Effects of Two Major Isoflavonoids in *Radix Astragali* on High Glucose-Induced Mesangial Cells Proliferation and AGEs-Induced Endothelial Cells Apoptosis. *Planta Med.* 2010 Dec 14.
- 11) Youhua xu, Liang Feng, Shanshan Wang, Jiang Lin , Chihan 。 Lou , Bao He , Zhaoguang Zheng , DanTang, Guoying, Zuo. Phytoestrogen Calycosin-7-0- β -Dglucopyranside ameliorates advanced glycation end products-induced HUVEC damage. *Journal of cellular Biochemistry* 9999: 1-13(2011)

- 12) Youhua xu, Liang Feng, Shanshan Wang, Quan Zhu, Zhaoguang Zheng Bao He , Ping Xiang , Dan Tang,: Calycosin protects HUVECs from advanced glycation end products-induced macrophage infiltration Journal Ethnopharmacology 137(2011)359-370
- 13) Youhua xu, Liang Feng, Shanshan Wang, Wai-au-Yeung, Zhao-guang Zheng, Quan Zhu, Ping Xiang , Competitive binding between 4,4'-diphenylmethane-bis(methyl) carbamate and RAGE ligand MG-H1 on human umbilical vein endothelial cell by membrane chromatography. Journal of chromatography B 881-882(2012)55-62
- 14) Tang D, Zhu JX, Wu AG, Xu YH, Duan TT, Zheng ZG, Wang RS, Li D, Zhu Q. Pre-column incubation followed by fast liquid chromatography analysis for rapid screening of natural methylglyoxal scavengers directly from herbal medicines: case study of Polygonum cuspidatum. J Chromatogr A. 2013 Apr 19;1286:102-10

朱荃教授

药理学特聘教授



简介: 1968年毕业于南京中医学院，1978年入中国中医研究院中药所攻读中药药理研究生，1989年-1992年在加拿大多伦多大学药学院进修细胞药理学。历任南京中医药大学大学教授、系副主任、药物研究所所长、博士生导师，国家实验室主任，兼任国家教育部科学技术委员会专家，国家自然科学基金会生命科学部审评专家，国家、江苏省药品审评专家。现受聘于澳门科技大学国家重点中药质量标准实验室特聘教授。

在加期间完成亚硝酸盐的代谢毒性与肝药酶亚型关系的研究。1992年进行中药抗休克，抗急性肾衰的研究，研制成功抗厥注射液，获得国家中医药管理局科技进步一等奖。首创了细胞膜固相色谱技术，该技术已经得到了业内学者的认可与应用。他领导的课题组已完成了11项糖尿病微血管病变模型，其中6项为首创性的模型。朱荃教授的研究方向为细胞膜固相色谱技术在中医药研究中的应用，糖尿病肾病并发症的药物研究。他与学生们在先后发表研究论文50余篇。获得新药证书2项，申报国家专利3项，国际专利3项。

学历:

1968年9月，南京中医学院学中药系本科毕业

1981年10月，中国中医研究院医学硕士学位

工作经历:

1968年9月-1978年10月，江苏金坛县人民医院药师

1981年10月-2005年11月，南京中医药大学讲师，副教授，教授，国家实验室主

任

2006年10月-今，澳门科技大学教授。

授课科目: 药理学，医药学历史重大事件解析

研究领域: 糖尿病微血管并发症药理 细胞膜固相色谱技术在中医药研究中的应用

研究论文:

- 1) HONG M, ZHU Q. Macrophages are activated by 17 β -estradiol: possible permission role in endometriosis. *Experimental and Toxicologic Pathology*. 2004;55(5):385-91.
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- 5) Z.B. Donga, S.P. Li a,b,* , M. Honga, Q. Zhua Hypothesis of potential active components in *Angelica sinensis* by using biomembrane extraction and high performance liquid chromatography *Journal of Pharmaceutical and Biomedical Analysis* 38 (2005) 664–669
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- 7) Long Chen , Linlin Wang a, Bin Xu a, Guangxia Ni a, Li Yua, Bin Han b, Xiaochun Yu c, Kelin Wang c, Yueyang Lai d, Shuyuan Zhou a, Quan Zhu a , Mechanisms of

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- 8) Xu Y H, Wang S S, Feng L, Zhu Q, Xiang P, He B: Blockade of PKC-beta protects HUVEC from advanced glycation end products induced inflammation. *Int Immunopharmacol.* 2010 Dec;10(12):1552-9.
 - 9) Zheng ZG, Wang RS, Cheng HQ, Duan TT, He B, Tang D, Gu F, Zhu Q. Isolated perfused lung extraction and HPLC-ESI-MS(n) analysis for predicting bioactive components of *Saposhnikoviae Radix*. *Pharm Biomed Anal.* 2011 Feb 20;54(3):614-8.
 - 10) Tang D, He B, Zheng ZG, Wang RS, Gu F, Duan TT, Cheng HQ, Zhu Q. Inhibitory Effects of Two Major Isoflavonoids in *Radix Astragali* on High Glucose-Induced Mesangial Cells Proliferation and AGEs-Induced Endothelial Cells Apoptosis. *Planta Med.* 2010 Dec 14.
 - 11) Youhua xu, Liang Feng, Shanshan Wang, Jiang Lin, Chihan Lou, Bao He, Zhaoguang Zheng, DanTang, Guoying, Zuo. Phytoestrogen Calycosin-7-O- β -Dglucopyranside ameliorates advanced glycation end products-induced HUVEC damage. *Journal of cellular Biochemistry* 9999: 1-13(2011)
 - 12) Youhua xu, Liang Feng, Shanshan Wang, Quan Zhu, Zhaoguang Zheng Bao He, Ping Xiang, Dan Tang,: Calycosin protects HUVECs from advanced glycation end products-induced macrophage infiltration *Journal Ethnopharmacology* 137(2011)359-370
 - 13) Youhua xu, Liang Feng, Shanshan Wang, Wai-au-Yeung, Zhao-guang Zheng, Quan Zhu, Ping Xiang, Competitive binding between 4,4'-diphenylmethane-bis(methyl) carbamate and RAGE ligand MG-H1 on human umbilical vein endothelial cell by membrane chromatography. *Journal of chromatography B* 881-882(2012)55-62
 - 14) Tang D, Zhu JX, Wu AG, Xu YH, Duan TT, Zheng ZG, Wang RS, Li D, Zhu Q. Pre-column incubation followed by fast liquid chromatography analysis for rapid screening of natural methylglyoxal scavengers directly from herbal medicines: case study of *Polygonum cuspidatum*. *J Chromatogr A.* 2013 Apr 19;1286:102-10