

Yong Hua Zhao



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Faculty : Chinese Medicine
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Teaching and Research Areas :

- 1) Teaching of Chinese Medicine undergraduate and postgraduate courses
- 2) Research Interest: The integrative medicine strategies to advance therapeutic effects of cardio-cerebral vascular diseases ; The studies of Chinese Medicines' active compounds combined with MSCs on neurovascular unit and Chinese Medicine formulae on neuron-glia metabolic coupling in ischemic stroke.

Academic Qualifications

2001 - 2004 M.D. / Chinese Internal Medicine / Guangzhou University of Chinese Medicine
1998 - 2001 Master / The Integrative Internal Medicine / Liaoning University of Traditional Chinese Medicine
1993 - 1998 Bachelor / Chinese Medicine / Heilongjiang University of Chinese Medicine

Teaching Experiences

2009 - Present Associate professor / Faculty of Chinese Medicine / Macau University of Science and Technology
2005 - 2009 Assistant professor / Faculty of Chinese Medicine / Macau University of Science and Technology
2004 - 2005 Lecturer / Faculty of Chinese Medicine / Macau University of Science and Technology

Representative Publications

Journal Articles:

- 1) Youhua Xu, Jianfeng Xiong, **Yonghua Zhao**, Bao He, Zhaoguang Zheng, Quan Zhu. (2015) Calycosin rebalances advanced glycation end products-induced glucose uptake dysfunction of hepatocyte in vitro. *The American Journal of Chinese Medicine*. 43(6): in press.
- 2) Ya-Ju Hsieh, Luen Hwu, Chien-Chih Ke, Ai-Lin Huang, Fu-Du Chen, Shyh-Jong Wu, Sharon Chia-Ju Chen, **Yong-Hua Zhao** and Ren-Shyan Liu. (2015) Demonstration of Tightly Radiation-Controlled Molecular Switch Based on CArG Repeats by In Vivo Molecular Imaging. *Molecular Imaging and Biology*. May 12. [Epub ahead of print]

- 3) Qian Zhang and **Yong-Hua Zhao***. (2014) Therapeutic Angiogenesis after Ischemic Stroke: Chinese Medicines, Bone Marrow Stromal Cells (BMSCs) and their Combinational Treatment. *The American Journal of Chinese Medicine*. 42(1): 61–77.
- 4) **Yonghua Zhao**, Wan Lai, Youhua Xu, Liming Li, Zhenwei Chen, Weikang Wu. (2013) Exogenous and endogenous therapeutic effects of combination Sodium Ferulate and bone marrow stromal cells (BMSCs) treatment enhance neurogenesis after rat focal cerebral ischemia. *Metabolic Brain Disease*. 28:655–666.
- 5) Li-Zhen Liao, Yan-Ling Chen, Li-He Lu, **Yong-Hua Zhao**, Hua-Lei Guo and Wei-Kang Wu. (2013) Polysaccharide from Fuzi Likely Protects Against Starvation- Induced Cytotoxicity in H9c2 Cells by Increasing Autophagy Through Activation of the AMPK/mTOR Pathway. *The American Journal of Chinese Medicine*. 41(2): 353–367.
- 6) **Zhao Yong-Hua**, Guan Ying, Wu Wei-Kang. (2012) Potential advantages of a combination of Chinese Medicine and bone marrow mesenchymal stem cell transplantation for removing blood stasis and stimulating neogenesis during ischemic stroke treatment. *Journal of Traditional Chinese Medicine*. 32(2): 289-292.
- 7) **Yonghua Zhao**, Ying Guan, Youhua Xu, Yun Li, Weikang Wu. (2012) Sodium Ferulate combined with bone marrow stromal cell treatment ameliorating rat brain ischemic injury after stroke. *Brain research*. 1450:157-165.
- 8) GuanYing, **Zhao Yong-hua***. (2011) Treatment of Cerebral Ischemia with the Combination of Bone Marrow-Derived Mesenchymal Stem Cells and Chinese Medicine. *Chinese Journal of Integrative Medicine*. 17(9):715-720.
- 9) **Zhao Yong-hua**, Liu Yu-de, Guan Ying, Liu Nai-wei. (2010) Effect of Yinian Jiangya Yin on Primary Hypertension in Early Stage - A Clinical Observations on 40 Patients. *Journal of Traditional Chinese Medicine*. 30(3):171-175.
- 10) **Zhao Yong-hua**, Xu You-hua, Guan Ying, Xiang-ping. (2010) Effects of Yinian Jiangya Decoction Containing Serum on Cytokines Secretion of Vascular Endothelium of Spontaneously hypertensive Rates. *Chinese Journal of Integrative Medicine*. 16(4):344-347.
- 11) **Zhao Yong-hua**, Zhang Wei, Zhao Feng-li, Liao Hui-li.(2010) One Case of Older Patient of Heart and Respiratory Failure with Acute Coronary Syndrome Treatment with the Model of Adaptive Support Ventilation. *Chinese critical care medicine*. 22(3):188.
- 12) **Zhao Yong-hua**, Liu Yu-de, Liu Nai-wei, Li Huan-yi, Xiang Ping.(2010) Effects of YiNian JiangYa Decoction Containing Serum on Endothelial Cell Proliferation and PPAR- γ mRNA Expression in Spontaneously Hypertensive Rates. *Chinese journal of integrated traditional and western medicine*. 30(1):68-71.
- 13) **Zhao Yong-hua**, Liu Yu-de, Huang Ping-dong, Xiang Ping. (2009) Effects of Clinical Treatment and Protection on Endothelial Function of Early Essential Hypertension's Patients Treated with YiNianJiangYa Decoction in Southern GuangDong Area. *China journal of traditional Chinese medicine and pharmacy*. 24(9):1149-1152.
- 14) **Zhao Yong-hua**, Shi Jing-li, Wu Wei-kang.(2008) The Study of Serum Contained BuShenZhuangGu Capsule on ALP、IGF-1 of Rat Osteoblast. *Journal of Macau University of Science and Technology*. 2(2):28-32.
- 15) Shi Jing-li, **Zhao Yong-hua**, Wu Wei-kang. (2008) Effects of the Drug (BSZGC) -containing Serum on Proliferation of Rat's Osteoclasts and TRACP Activity in Vitro. *Journal of*

Traditional Chinese Medicine. 28(3):211-216.

16) Shi Jing-li, **Zhao Yong-hua**, Wu Wei-kang.(2008) Effect of BuShenZhuangGu Capsule Contained Serum on the Activity and OPG mRNA Protein Expression in Rat Osteoblasts in vitro. *China journal of traditional Chinese medicine and pharmacy*. 23(4):286-289.

17) **Zhao Yong-hua**, Xiang Ping.(2008) Discussion on Pathogenesis of Primary Hypertension from the Theory of Liver-Dominating-Tendon in Traditional Chinese Medicine. *Chinese journal of basic medicine in traditional Chinese medicine*. 14(5):341-342.

18) **Zhao Yong-hua**, Luo Xiao-xing, Liu Yu-de, He Yu-ping.(2007) Effect of Ligustrazine on Cell Apoptosis and Expression of bcl-2 and p53 in Rats Hippocampal Neurons after Anoxia. *Journal of guangzhou university of traditional Chinese medicine*. 24(6):490-493.

19) **Zhao Yong-hua**, Luo Xiao-xing, Liu Yu-de.(2007) Study on Effects of Ligustrazine and Exogenous β -Nerve Growth Factor Therapy on Activity of Hippocampal Neurons in Rats after Anoxia. *Chinese journal of integrated traditional and western medicine in intensive and critical care*. 14(3):142-144.

Book Chapters:

1) Compendious Chinese-English-Portuguese Dictionary of Traditional Chinese Medicine. Editor. Published by 21st Century Technological Research Centre (2006)

2) Current Topic in Clinical Research of Chinese Medicine on Common Diseases in Internal Medicine. Editor-in- Chief. Published by Macau University of Science and Technology (2010)

Research Grants/Projects

2006 – 2009 Research Topic: Effect of Yi Nian Jiang Ya Yin (YNJYY) on primary hypertension and endothelial cell function (FDCT: 105/2005/A)

2009 – 2012 Research Topic: The Study of Sodium Ferulate combined with Bone Marrow Stromal Cells (BMSCs) treatment ameliorating rat brain ischemic injury after stroke (FDCT: 048/2008/A3)

2013 – present Research Topic: The Active compounds of Radix Angelica sinensis combined with BMSCs mediating angiogenesis in ischemic boundary zone of MCAo model rats (FDCT: 089/2012/A3)

2015 – present Research Topic: SenGui SanSheng pulvis enhances Neuron-Glia metabolic coupling after ischemic stroke based on astrocytic vasoactive intestinal polypeptide receptors (VPACs) for target (FDCT:106/2014/A3)

Academic and Professional Membership

1) Executive Member of the Standing in Cardiovascular Committee of Guangdong Province Integrative Medicine

2) Academic Advisor of Research in Committee of Integrative Medicine (Macao)

3) Associate Editor of the journal of Macao Chinese Medicine

4) Assistant general-secretary of cross-strait scientific collaboration center for Chinese Medicine

5) Executive member of the council in the Specialty Committee of Immunology of Traditional Chinese Medicine of WFCMS

Professional Qualifications and Awards

- 1) Obtained qualification certificate of Integrative Medicine by the Ministry of Health of the People's Republic of China in 2002.
- 2) Obtained qualification certificate of middle level specialty and technology in 2003.
- 3) Obtained qualification certificate of Traditional Chinese Medical doctor by the Health Bureau of Macao Special Administrative Region in 2007.
- 4) Awarded Teaching Excellent Award of Macau University of Science and Technology in 2010.
- 5) Instructing postgraduate to gain Scientific and Technological R&D Award for Postgraduates by Macao Special Administrative Region in 2012.