

ZHANG Bao-Ting (M.D)

Academic qualifications:

- 1992-1997 B.Med., Henan University of Traditional Chinese Medicine, China
1997-2000 M.Med., Chengdu University of Traditional Chinese Medicine, China
2000-2003 M.D, Shanghai University of Traditional Chinese Medicine, China

Previous academic positions held:

- 2003-2005 Physician-in-charge, Shanghai Tenth People's Hospital, Tongji University, Shanghai, PRC
2006-2008 Postdoctoral Research Fellow, Department of Rehabilitation Sciences, Hong Kong Polytechnic University, HK
2008-2009 Postdoctoral Research Fellow, Department of Physiology, University of Sydney, Australia
2009-2010 Research Associate, Department of Rehabilitation Sciences, Hong Kong Polytechnic University, HK
2011-2011 Research Associate, Department of Orthopaedics & Traumatology, The Chinese University of Hong Kong, HK

Present academic position:

- 2011-now Assistant Professor, School of Chinese Medicine, Faculty of Medicine, The Chinese University of Hong Kong, HK

Previous relevant research work:

Molecular mechanisms and interventions with genetic approach and natural products on pulmonary, musculoskeletal and cardio-cerebral diseases

Publication records:

Section A-Five most representative publications in the recent five years (* Corresponding Author)

1. Zhang ZK, Li J, Guan D, Liang C, Zhuo Z, Liu J, Lu A, Zhang G, **Zhang BT***. A newly identified lncRNA MAR1 acts as a miR-487b sponge to promote skeletal muscle differentiation and regeneration. *Journal of Cachexia, Sarcopenia and Muscle* 2018; 9(3):613-626.
2. Li F, Lu J, Jiang F, Liu J, Li D, Yao H, Liang C, Wang M, Wang L, Zhang Q, Wen J, Zhang ZK, Li J, Lv Q, He X, Guo B, Guan D, Yu Y, Dang L, Wu X, Li Y, Sun S, **Zhang BT***, Lu A, Zhang G. A water-soluble nucleolin aptamer-paclitaxel conjugate for tumor-specific targeting in ovarian cancer. *Nature Communications* 2017; 8: 1390.
3. Liu J, Liang C, Guo B, Wu X, Li D, Zhang ZK, **Zhang BT***, Lu A, Zhang G. Increased PLEKHO1 within osteoblasts suppresses Smad-dependent BMP signaling to inhibit bone formation during aging. *Aging Cell*. 2017; 16(2): 360-376.
4. Zhang ZK, Li J, Liu J, Guo B, Leung A, Zhang G, **Zhang BT***. Icaritin requires Phosphatidylinositol 3 kinase (PI3K)/Akt signaling to counteract skeletal muscle atrophy

following mechanical unloading. *Sci Rep.* 2016; 6:20300.

5. Zhang G, Guo B, Wu H, Tang T, **Zhang BT (Co-first author)**, Zheng L, He Y, Yang Z, Pan X, Chow H, To K, Li Y, Li D, Wang X, Wang Y, Lee K, Hou Z, Dong N, Li G, Leung K, Hung L, He F, Zhang L, Qin L. A delivery system targeting bone formation surfaces to facilitate RNAi-based anabolic therapy. *Nat Med.* 2012; 18(2): 307-14.

Publications: Section B - Five representative publications beyond the recent five-year period with the latest publication entered first

6. **Zhang BT**, Yeung SS, Liu Y, Wang HH, Wan YM, Ling SK, Zhang HY, Li YH, Yeung EW. The effects of low frequency electrical stimulation on satellite cell activity in rat skeletal muscle during hindlimb suspension. *BMC Cell Biology* 2010; 11: 87.
7. Allen DG, **Zhang BT**, Whitehead NP. Stretch-Induced Membrane Damage in Muscle: Comparison of Wild-Type and mdx Mice. *Adv Exp Med Biol* 2010; 682: 297-313.
8. **Zhang BT**, Yeung SS, Allen DG, Qin L, Yeung EW. Role of the calcium-calpain pathway in cytoskeletal damage after eccentric contractions. *Journal of Applied Physiology* 2008; 105(1): 352-7.
9. **Zhang BT***, Yan QL, Yan DX, Li Z, Yu YC, Huang GP, Tang DS, Ye X. Molecular mechanism of effect of Wenban Humai granule on stability of atheromatous plaque. *Zhongguo Zhong Xi Yi Jie He Za Zhi* 2005; 25(2): 154-9.
10. **Zhang BT***, Yan QL, Yan DX, Hu QL. Study on the number of vulnerable vessels, level of coronary artery stenosis, integra of braunwald clinical grades and their correlation among different Traditional Chinese Medicine syndromes in patients with acute coronary syndromes. *Journal of Emergency in Traditional Chinese Medicine* 2005; 14(2): 147-9.

Awards:

1. Young Scientist Poster Presentation Award, The IUPHAR World Conference On the Pharmacology of Nature and Traditional Medicine, July 2015, Singapore. (*Corresponding author*)
2. President's Poster Competition Award, 2011 The American Society for Bone and Mineral Research (ASBMR) Annual Meeting, September 2011, San Diego, USA.
3. Endeavour Australia Cheung Kong Research Fellowship, Australian Government, 2008, Sydney, Australia
4. YAN DE XIN Reward Fund for Chinese Traditional Medicine Personnel (The 2nd Award), Shanghai YAN DE XIN foundation for Chinese Medicine , 2008, Shanghai, China

Patent:

Yeung SS, Yeung EW, Zhang BT. An electrical stimulation system to enhance satellite cell activity in skeletal muscle (ZL200910140951.8), China (4 Jul 2012)