CURRICULUM VITAE

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Education:

09/2003 - 07/2007	BE, Zhejiang University of Technology, Biological and environmental engineering/Biological Engineering, Hangzhou, Zhejiang
09/2009 - 07/2014	PhD, Zhejiang University, Basic medical sciences/Pathology & Pathophysiology, Hangzhou, Zhejiang

Career/Academic Appointments:

08/2014 - 12/2015	Postdoctoral Associate, Cardiology (Medicine), Yale School of Medicine, New Haven, CT
01/2016 - 07/2020	Postdoctoral Associate, Pharmacology, Yale School of Medicine, New Haven, CT
08/2020 - Present	Associate Research Scientist, Pharmacology, Yale School of Medicine, New Haven, CT

Professional Service:

Journal Services

Reviewer

2016 - Present	Reviewer, Chemosphere
2016 - Present	Reviewer, Environmental Toxicology
2016 - Present	Reviewer, Chemical Research in Toxicology
2016 - Present	Reviewer, Environmental Pollution
2016 - Present	Reviewer, The Science of the Total Environment
2016 - Present	Reviewer, Journal of Agricultural and Food Chemistry
2017 - Present	Reviewer, Physiological Research
2017 - Present	Reviewer, Comparative Biochemistry and Physiology C
2021 - Present	Reviewer, FASEB BioAdvances
2021 - Present	Reviewer, Engineering

Professional Organizations

American Heart Association

2015 - 2017 Member, American Heart Association

Bibliography:

Peer-Reviewed Original Research

1. Gu B, Zhang J, Chen Q, **Tao B**, Wang W, Zhou Y, Chen L, Liu Y, Zhang M. Aire regulates the expression of differentiation-associated genes and self-renewal of embryonic stem cells. Biochem Biophys Res Commun 2010, 394: 418-23. PMID: 20226168, DOI: 10.1016/j.bbrc.2010.03.042.
2. Tan Z, Zhang J, Su Z, Gu B, Jiang X, Luo J, Ji H, Wang G, **Tao B**, Zhao X, Chen L, Yu G, Zhu W, Zhang M. Production of rabbit monoclonal antibodies against mouse embryonic stem cells and identification of pluripotency-associated surface antigens. J Immunol Methods 2011, 365: 149-57. PMID: 21185299, DOI: 10.1016/j.jim.2010.12.012.
3. Zhang X, Zhang Y, **Tao B**, Teng L, Li Y, Cao R, Gui Q, Ye M, Mou X, Cheng H, Hu H, Zhou R, Wu X, Xie Q, Ning W, Lai M, Shen H, Feng GS, Ke Y. Loss of Shp2 in alveoli epithelia induces deregulated surfactant homeostasis, resulting in spontaneous pulmonary fibrosis. FASEB J 2012, 26: 2338-50. PMID: 22362894, DOI: 10.1096/fj.11-200139.
4. Zhang X, Zhang Y, **Tao B**, Wang D, Cheng H, Wang K, Zhou R, Xie Q, Ke Y. Docking protein Gab2 regulates mucin expression and goblet cell hyperplasia through TYK2/STAT6 pathway. FASEB J 2012, 26: 4603-13. PMID: 22859374, DOI: 10.1096/fj.12-211755.
5. **Tao B**, Jin W, Xu J, Liang Z, Yao J, Zhang Y, Wang K, Cheng H, Zhang X, Ke Y. Myeloid-specific disruption of tyrosine phosphatase Shp2 promotes alternative activation of macrophages and predisposes mice to pulmonary fibrosis. J Immunol 2014, 193: 2801-11. PMID: 25127857, DOI: 10.4049/jimmunol.1303463.
6. Jin Y, Liu L, Zhang S, **Tao B**, Tao R, He X, Qu L, Huang J, Wang X, Fu Z. Chromium alters lipopolysaccharide-induced inflammatory responses both in vivo and in vitro. Chemosphere 2016, 148: 436-43. PMID: 26841286, DOI: 10.1016/j.chemosphere.2016.01.057.
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8. Cao Q, Yao J, Li H, **Tao B**, Cai Y, Xiao P, Cheng H, Ke Y. Cellular Phenotypic Analysis of Macrophage Activation Unveils Kinetic Responses of Agents Targeting Phosphorylation. SLAS Discov 2017, 22: 51-57. PMID: 27554457, DOI: 10.1177/1087057116663166.
9. Xu J, **Tao B**, Guo X, Zhou S, Li Y, Zhang Y, Zhou Z, Cheng H, Zhang X, Ke Y. Macrophage-Restricted Shp2 Tyrosine Phosphatase Acts as a Rheostat for MMP12 through TGF-β Activation in the Prevention of Age-Related Emphysema in Mice. J Immunol 2017, 199: 2323-2332. PMID: 28814604, DOI: 10.4049/jimmunol.1601696.
10. **Tao B**, Kraehling JR, Ghaffari S, Ramirez CM, Lee S, Fowler JW, Lee WL, Fernandez-Hernando C, Eichmann A, Sessa WC. BMP-9 and LDL crosstalk regulates ALK-1 endocytosis and LDL transcytosis

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12. Bernatchez PN, **Tao B**, Bradshaw RA, Eveleth D, Sessa WC. Characterization of a Novel Caveolin Modulator That Reduces Vascular Permeability and Ocular Inflammation. Translational Vision Science & Technology 2021, 10: 21. PMID: 34111267, PMCID: PMC8132009, DOI: 10.1167/tvst.10.6.21.
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