

Biosketch



Baoju Wang, MD

Associate Professor
Department of Infectious Disease
Union Hospital of Tongji Medical College
Huazhong University of Science and Technology
1277 Jiefang Avenue, Wuhan 430022, China
Phone: 0086-13627288476
email: bjwang73@163.com

Studied clinical medicine in Tongji Medical University, Wuhan, China. She received her Ph.D. in Tongji Medical College, Huazhong University of Science and Technology (HUST), Wuhan, China in 2005. She visited and studied in the Institute of Virology, Essen, Germany for half a year in 2003. She worked in the Department of Clinical immunology, Tongji Hospital, Tongji Medical College, HUST till 2012. In 2012, she moved to the Department of Infectious diseases, Union Hospital, Tongji Medical College, HUST, and worked as a physician and an associated Professor there.

Her research is focused on the Chinese woodchuck model and the immunopathogenesis of chronic hepatitis B. Her goal is to determine the factors influencing the immune responses against chronic hepatitis B virus (HBV) infection in mouse model, Chinese woodchuck model and human. Her team found *Marmota himalayana*, a Chinese woodchuck species, is susceptible to experimental woodchuck hepatitis virus (WHV) infection, and now has an animal facility harboring woodchucks which is open for the collaboration. They are also studying the role of fatty acid metabolism and gut microbiota in determine the immune responses against HBV infection.

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Selected Publications:

1. Zhu Q, Xia P, Zhou X, Li X, Guo W, Zhu B, Zheng X, **Wang B**, Yang D, Wang J. Hepatitis B Virus Infection Alters Gut Microbiota Composition in Mice. *Front Cell Infect Microbiol.* 2019 Nov 5;9:377. Erratum in: *Front Cell Infect Microbiol.* 2020 Sep 15;10:490.
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3. Liu Y[#], **Wang B[#]**, Wang L, Vikash V, Wang Q, Roggendorf M, Lu M, Yang D*, Liu J*. Transcriptome Analysis and Comparison of *Marmota monax* and *Marmota himalayana*. PLoS One. 2016 Nov 2;11(11):e0165875.
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5. **Wang B[#]**, Zhu Z[#], Zhu B, Wang J, Song Z, Huang S, Fan W, Tao Y, Wang Z, Wang H, Lu M*, Yang D*. Nucleoside analogues alone or combined with vaccination prevent hepadnavirus viremia and induce protective immunity: Alternative strategy for hepatitis B virus post-exposure prophylaxis. Antiviral Res. 2014 Feb 28;105(5):118-125
6. Wang J, **Wang B**, Huang S, Song Z, Wu J, Zhang E, Zhu Z, Zhu B, Yin Y, Lin Y, Xu Y, Zheng X, Lu M, Yang D. Immunosuppressive drugs modulate the replication of hepatitis B virus (HBV) in a hydrodynamic injection mouse model. PLoS One. 2014 Jan 21;9(1):e85832.
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9. **Wang BJ**, Tian YJ, Meng ZJ, Jiang M, Wei BQ, Tao YQ, Fan W, Li AY, Bao JJ, Li XY, Zhang ZM, Wang ZD, Wang H, Roggendorf M, Lu MJ, Yang DL. Establishing a new animal model for hepadnaviral infection: susceptibility of Chinese *Marmota*-species to woodchuck hepatitis virus infection. J Gen Virol. 2011 Mar;92(Pt 3):681-91
10. **Wang B**, Lohrengel B, Lu Y, Meng Z, Xu Y, Yang D, Roggendorf M, Lu M. Molecular characterization of woodchuck interleukin 15 (wIL-15) and detection of its expression in liver samples of woodchucks infected with woodchuck hepatitis virus (WHV). Cytokine. 2005 Dec 21;32(6):296-303.
11. Weina Guo, Xin Zhou, Xiaoran Li, Qingfeng Zhu, Jing Peng, Bin Zhu, Xin Zheng, Yiping Lu, Dongliang Yang, **Baoju Wang*** and Junzhong Wang*. Depletion of gut microbiota impairs gut barrier function and antiviral immune defense in the liver. Frontiers in Immunology (Accepted).

Research Group

Staffs:

Junzhong Wang
Bin Zhu
Shunchang Zhou

MS and MD/PhD Students:

Jinqiu Nie
Hui Deng