Biosketch

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Dr. Yan graduated and earned his B.S. and Ph.D at Wuhan University. He continued to work as a teaching staff member in College of Life Sciences, Wuhan University until 1998. From 1998 to 2002, he worked with Prof. Michael E. Lamm as a Research Associate in Department of Pathology, School of Medicine, Case Western Reserve University, Cleveland, Ohio and conducted scientific research on mucosal immune functions of IgA in relation to virus infections. He returned to Wuhan University in autumn 2002 and joined in the newly established Modern Virology Research Center, College of Life Sciences, Wuhan University as an associate professor. In 2006, he moved to the Wuhan Institute of Virology, Chinese Academy of Sciences, where he was appointed as a Professor and group leader to set up an independent research lab named Mucosal Immunity Research Group. His lab is a group member of the State Key Laboratory of Virology in China. In 2020, he joined in the Shanghai Public Health Clinical Center, Fudan University as a PI of Mucosal Immunity Research Unit and a professor of Translational Medical Research Institute.

He has conducted research on the mucosal defense functions of IgA antibody in relation to virus infections and the intra-epithelial activities of IgA against viral non-surface and non-structure components. His lab demonstrated that measles virus (MV) non-surface protein such as matrix protein (M), non-structural protein such as phosphoprotein (P) specific IgA can interact with viral newly synthesized proteins during IgA transport through the viral infected epithelial cells, and inhibit viral replication intracellularly. He also extended studies in developing optimized recombinant flagellin as mucosal adjuvant for designing novel mucosal vaccines.

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Selected Publications:

1. Jingyi Yang, Maohua Zhong, Ejuan Zhang, Ke Hong, Qingyu Yang, Dihan Zhou, Jianbo Xia, Yao-Qing Chen, Mingbo Sun, Bali Zhao, Jie Xiang, Ying Liu, Yang Han, Xi Zhou, Chaolin Huang, You Shang, **Huimin Yan**. Broad phenotypic alterations and potential dysfunction of lymphocytes in individuals clinically recovered from COVID-19. Journal of Molecular Cell Biology. 2021, doi.org/10.1093/jmcb/mjab014.

2. Jingyi Yang, Maohua Zhong, Ke Hong, Qingyu Yang, Ejuan Zhang, Dihan Zhou, Jianbo Xia, Yao-Qing Chen, Mingbo Sun, Bali Zhao, Jie Xiang, Ying Liu, Yang Han, Mengxin Xu, Xi Zhou, Chaolin Huang, You Shang, **Huimin Yan**. Characteristics of T-cell responses in COVID-19 patients with prolonged SARS-CoV-2 positivity – a cohort study. Clinical & Translational Immunology. 2021; e1259. doi: 10.1002/cti2.1259.

3. Hu Yan; Maohua Zhong, Jingyi Yang, Jiabao Guo, Jie Yu, Yi Yang, Zhiyong Ma, Bali Zhao, Yue Zhang, Junzhong Wang, Chunchen Wu, Ulf Dittmer, Dong-Liang Yang, Mengji Lu, Ejuan Zhang, **Huimin Yan**. TLR5 activation in hepatocytes alleviates the functional suppression of intrahepatic CD8+ T cells. Immunology. 2020, 161(4), 325-344

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9. Wei Li, Jingyi Yang, Ejuan Zhang, Maohua Zhong, Yang Xiao, Jie Yu, Dihan Zhou, Yuan Cao, Yi Yang, Yaoming Li and **Huimin Yan**. Activation of NLRC4 downregulates TLR5-mediated antibody immune responses against flagellin. Cell Mol Immunol. 2016, 13:514-523. doi:10.1038/cmi.2015.33

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Research Group

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