

## Biosketch



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Ying Zhu studied biology in Wuhan University, Wuhan, China. He received his Ph.D. in Microbiology from Wuhan University, China. He did his postdoctoral training at the Baylor College of Medicine, USA, and the Medical School in University of Texas-Houston, USA. In 2003 he became a professor in the State Key Laboratory of Virology, College of Life Sciences, Wuhan University, China. In 2014, Professor and Chair in Department of Virology, College of Life Sciences, Wuhan University, China.

His research is focused on the investigation of cellular inflammatory processes activated by viral infection and on host antiviral innate immune response in the control of viral infection. Hepatitis B virus infection and interferon resistance, immune evasion. Influenza A virus induced cytokine storm and proinflammatory network.

### Research Project Funded by:

General project of the National Natural Science Foundation of China.

Study on the formation mechanism of super IL-6 complex and its function in host antiviral response (81971494)

National Natural Science Foundation of China general projects.

Soluble interleukin-6 receptor-mediated host antiviral innate immune response mechanism (31570870)

National Key Basic Research Project.

Research on the structure and function of important viral transcription replication protein complex (2013CB911102)

### Selected Publications:

1. Xia Z, Xu G, Nie L, Liu L, Peng N, He Q, Zuo Q, Zhou Y, Cao Z, Liu S, **Zhu Y\***. NAC1 Potentiates Cellular Antiviral Signaling by Bridging MAVS and TBK1. *J Immunol.* 2019 Aug 15;203(4):1001-1011.

2. Liu S, Liu L, Xu G, Cao Z, Wang Q, Li S, Peng N, Yin J, Yu H, Li M, Xia Z, Zhou L, Lin Y, Wang X, Li Q, Zhu C, Yang X, Wang J, She Y, Lu M, **Zhu Y\***. Epigenetic modification is regulated by the interaction of influenza A

virus nonstructural protein-1 with the de novo DNA methyltransferase DNMT3B and subsequent transport to the cytoplasm for K48-linked polyubiquitination. *J Virol.* 2019 Mar 21;93(7). pii: e01587-18.

3. He QQ, Ren S, Xia ZC, Cheng ZK, Peng NF, **Zhu Y\***. Fibronectin Facilitates Enterovirus 71 Infection by Mediating Viral Entry. *J Virol.* 2018 Apr 13;92(9). pii: e02251-17.

4. Xia Z, Xu G, Yang X, Peng N, Zuo Q, Zhu S, Hao H, Liu S, **Zhu Y\***. Inducible TAP1 Negatively Regulates the Antiviral Innate Immune Response by Targeting the TAK1 Complex. *J Immunol.* 2017 May 1;198(9):3690-3704.

5. Wan Y, Cao W, Han T, Ren S, Feng J, Chen T, Wang J, Broering R, Lu M, **Zhu Y\***. Inducible Rubicon facilitates viral replication by antagonizing interferon production. *Cell Mol Immunol.* 2017 Jul;14(7):607-620.

6. Yang X, Hao H, Xia Z, Xu G, Cao Z, Chen X, Liu S, **Zhu Y\***. Soluble IL-6 Receptor and IL-27 Subunit p28 Protein Complex Mediate the Antiviral Response through the Type III IFN Pathway.. *J Immunol.* 2016 Sep 15;197(6):2369-81.

7. Peng N#, Liu S#, Xia Z, Ren S, Feng J, Jing M, Gao X, Wiemer EA, **Zhu Y\***. Inducible Major Vault Protein Plays a Pivotal Role in Double-Stranded RNA- or Virus-Induced Proinflammatory Response. *J Immunol.* 2016. 196(6):2753-66.

8. Liu S, Peng NF, Xie JJ, Hao Q, Zhang M, Zhang Y, Xia ZC, Xu G, Zhao FP, Wang Q, Han T, **Zhu Y\***, Human hepatitis B virus S and E antigens inhibit major vault protein signaling in interferon induction pathways. *Journal of Hepatology* 2015. 62. 1015–1023.

9. Han T, Wan Y, Wang J, Zhao P, Yuan Y, Wang L, She Y, Broering R, Lu M, Ye L, **Zhu Y\***. Set7 facilitates hepatitis C virus replication via enzymatic activity-dependent attenuation of the IFN-related pathway. *J Immunol.* 2015, 194(6):2757-68.

10. Wang J, Wang Q, Han T, Li YK, Zhu SL, Ao F, Feng J, Jing MZ, Wang L, Ye LB and **Zhu Y\***. Soluble interleukin-6 receptor is elevated during influenza A virus infection and mediates the IL-6 and IL-32 inflammatory cytokine burst. *Cell Mol Immunol.* 2015. 12(5):633-644.

## **Research Group**

### **Staffs:**

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Zhi-Kui Cheng

### **MS and MD/PhD Students:**

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