

### Prof Liu Hai Yan's representative publications

1. Huey Yee Teo, Yuan Song, Kylie Su Mei Yong, Yonghao Liu, Yu Mei, Zuhairah Binte Hanafi, Ying Zhu, Yen Leong Chua, Nicholas R. J. Gascoigne, Qingfeng Chen, Haiyan Liu (2023) IL12/18/21 pre-activation enhances the anti-tumor efficacy of expanded  $\gamma\delta$ T cells and overcomes resistance to anti-PD-L1 treatment. **Cancer Immunology Research** 11 (7): 978–999
2. Dandan Lin, Yu Mei, Lei Lei, Zuhairah Binte Hanafi, Ziqi Jin, Yonghao Liu, Yuan Song, Yinsheng Zhang, Bo Hu, Chunliang Liu, Jinhua Lu, Haiyan Liu (2022) Immune suppressive function of IL-1 $\alpha$  release in the tumor microenvironment regulated by calpain 1. **OncolImmunology** 11(1): 2088467
3. Huanle Gong, Shoubao Ma, Jia Chen, Bingyu Yang, Shuangzhu Liu, Xin Liu, Jingjing Han, Xiaojin Wu, Lei Lei, Zhinan Yin, Hongjian Sun, Di Yu, Haiyan Liu (co-corresponding author), Depei Wu, Yang Xu (2022) Dendritic cell-derived IL-27 p28 regulates T cell program in pathogenicity and alleviates acute graft-versus-host disease. **Signal Transduction and Targeted Therapy** 7, 319
4. Hao Chang, Sharon WT Chew, Mengjia Zheng, Daniel CS Lio, Christian Wiraja, Yu Mei, Xiaoyu Ning, Mingyue Cui, Aung Than, Peng Shi, Dongan Wang, Kanyi Pu, Peng Chen, Haiyan Liu, Chenjie Xu (2021) Cryomicroneedles for transdermal cell delivery. **Nature Biomedical Engineering** 5, 1008–1018
5. Yonghao Liu, Yuan Song, Dandan Lin, Lei Lei, Yu Mei, Ziqi Jin, Huanle Gong, Ying Zhu, Bo Hu, Yinsheng Zhang, Lixiang Zhao, Huey Yee Teo, Ju Qiu, Wen Jiang, Chen Dong, Depei Wu, Yuhui Huang, Haiyan Liu (2019) NCR–group 3 innate lymphoid cells orchestrate IL-23/IL-17 axis to promote hepatocellular carcinoma development. **EBioMedicine** 41:333-344
6. Ziqi Jin, Lei Lei, Dandan Lin, Yonghao Liu, Yuan Song, Huanle Gong, Ying Zhu, Yu Mei, Bo Hu, Yan Wu, Guangbo Zhang, Haiyan Liu (2018) IL-33 released in the liver inhibits tumor growth via promoting CD4+ and CD8+ T cell responses in hepatocellular carcinoma. **The Journal of Immunology** 201(12):3770-3779
7. Yu Mei, Lixiang Zhao, Yonghao Liu, Huanle Gong, Yuan Song, Lei Lei, Ying Zhu, Ziqi Jin, Shoubao Ma, Bo Hu, Qing Sun, and Haiyan Liu (2017) Tumor vaccine combining AIDA-1 autotransporter and DNA vaccine element delivered by attenuated Salmonella to activate both tumor-specific CD4+ and CD8+ T cell responses. **Cancer Immunology Research** 5(6):503-514
8. Lin D, Lei L, Liu Y, Zhang Y, Hu B, Bao G, Song Y, Jin Z, Liu C, Mei Y, Sandikin D, Wu Y, Zhao L, Yu X, and Liu H (2016) Membrane IL-1 $\alpha$  inhibits the development of hepatocellular carcinoma via promoting T and NK cell activation. **Cancer Research** 76(11):3179-88.
9. Zhao L, Hu B, Zhang Y, Song Y, Lin D, Liu Y, Mei Y, Sandikin D, Sun W, Zhuang M and Liu H (2016) An activation-induced IL-15 isoform is a natural antagonist for IL-15 function. **Scientific Reports** 6:25822.
10. Dandan Lin, Lei Lei, Yinsheng Zhang, Bo Hu, Guangming Bao, Yonghao Liu, Yuan Song, Chunliang Liu, Yan Wu, Lixiang Zhao, Xiao Yu, and Haiyan Liu (2015) Secreted IL-1 $\alpha$  promotes T-cell activation and expansion of CD11b(+) Gr1(+) cells in carbon tetrachloride-induced liver injury in mice. **European Journal of Immunology** 45(7): 2084-98
11. Yuejun Liu, Yan Wu, Ying Wang, Yifeng Cai, Bo Hu, Guangming Bao, Hongying Fang, Lixiang Zhao, Shoubao Ma, Qiao Cheng, Yuan Song, Yonghao Liu, Ziling Zhu, Huirong Chang, Xiao Yu, Aining Sun, Yi Zhang, Dario A. A. Vignali, Depei Wu, Haiyan Liu (2015) IL-35 mitigates murine acute graft-versus-host disease with retention of graft-versus-leukemia effects. **Leukemia** 29: 939-46
12. Lixiang Zhao, Yu Mei, Qing Sun, Linghua Guo, Yan Wu, Xiao Yu, Bo Hu, Xiufan Liu, and Haiyan Liu (2014) Autologous Tumor Vaccine Modified with Recombinant New Castle Disease Virus Expressing IL-7 Promotes Anti-tumor Immune Response. **Journal of Immunology** 193(2): 735-45
13. Shoubao Ma, Qiao Cheng, Yifeng Cai, Huanle Gong, Yan Wu, Xiao Yu, Liyun Shi, Depei Wu, Chen Dong, and Haiyan Liu (2014) IL-17A produced by  $\gamma\delta$  T cells promotes tumor growth in hepatocellular carcinoma. **Cancer**

**Research** 74(7): 1969-82

14. Yong Liang, Shoubao Ma, Yanming Zhang, Ying Wang, Qiao Cheng, Yan Wu, Yue Jin, Donghui Zheng, Depei Wu, [Haiyan Liu](#) (2014) IL-1 $\beta$  and TLR4 signaling are involved in the aggravated murine acute graft-versus-host disease caused by delayed bortezomib administration. *Journal of Immunology* 192(3): 1277-85
15. Yuejun Liu, Yifeng Cai, Lan Dai, Guanghua Chen, Xiao Ma, Ying Wang, Ting Xu, Song Jin, Xiaojin Wu, Huiying Qiu, Xiaowen Tang, Caixia Li, Aining Sun, Depei Wu, [Haiyan Liu](#) (2013) The expression of Th17-associated cytokines in human acute graft-versus-host disease. *Biology of Blood and Marrow Transplantation* 19(10): 1421-9
16. Bo Hu, Guangming Bao, Yinsheng Zhang, Dandan Lin, Yan Wu, Depei Wu, [Haiyan Liu](#) (2012) Donor NK cells and IL-15 promoted engraftment in nonmyeloablative allogeneic bone marrow transplantation. *Journal of Immunology* 189(4): 1661-70
17. Fen Liu, Fuyi Tong, Yan He, [Haiyan Liu](#) (2011) Detectable expression of IL-35 in CD4<sup>+</sup> T cells from peripheral blood of chronic hepatitis B patients. *Clinical Immunology* 139: 1-5
18. Bo Hu, Yan He, Yan Wu, Guangming Bao, [Haiyan Liu](#) (corresponding author), Lisbeth A. Welniak, William J. Murphy (2010) Activated allogeneic NK cells as suppressors of alloreactive responses. *Biology of Blood and Marrow Transplantation* 16(6): 772-81
19. Yuzhen Gao, Yan He, Jun Ding, Kang Wu, Bo Hu, Yang Liu, Yan Wu, Bingnan Guo, Yueping Shen, Debora Landi, Stefano Landi, Yifeng Zhou, [Haiyan Liu](#) (2009) An insertion/deletion polymorphism at miRNA-122 binding site in the interleukin-1 $\alpha$  3' untranslated region confers risk for hepatocellular carcinoma. *Carcinogenesis* 30(12): 2064-69.