

## 2020年度医学研究院论文集选（按发表时间排序）

1. Wu, J., and **Yin, H.\*** (2019). Engineering guide RNA to reduce the off-target effects of CRISPR. **J Genet Genomics** 46, 523-529. (殷昊)
2. Yang, Q., and **Shu, H.B.\*** (2020). Deciphering the pathways to antiviral innate immunity and inflammation. **Adv Immunol** 145, 1-36. (舒红兵)
3. Hu, J., Wang, T., Xu, J., Wu, S., Wang, L., Su, H., Jiang, J., Yue, M., Wang, J., Wang, D., Li, P., Zhou, F., Liu, Y., Qing, G., **Liu, H.\*** (2020). WEE1 inhibition induces glutamine addiction in T-cell acute lymphoblastic leukemia. **Haematologica**. (刘胡丹)
4. Song, C.Q., Jiang, T., Richter, M., Rhym, L.H., Koblan, L.W., Zafra, M.P., Schatoff, E.M., Doman, J.L., Cao, Y., Dow, L.E., Zhu, L.J., Anderson, D.G., Liu, D.R.\*, **Hao, Y.\***, Xue, W.\* (2020). Adenine base editing in an adult mouse model of tyrosinaemia. **Nature Biomedical Engineering** 4, 125-130. (殷昊)
5. **Cai, C.**, Geng, A., Wang, M., Yang, L., Yu, Q.C.\*, and Zeng, Y.A\*. (2020). Amphiregulin mediates the hormonal regulation on Rspodin-1 expression in the mammary gland. **Dev Biol** 458, 43-51. (蔡车国)
6. Jiang, J., Wang, J., Yue, M., Cai, X., Wang, T., Wu, C., Su, H., Wang, Y., Han, M., Zhang, Y., Zhu, X.F., Jiang, P., Li, P., Sun, Y.H., Xiao, W.H., Feng, H., Qing, G.L., **Liu, H.D.\*** (2020). Direct Phosphorylation and Stabilization of MYC by Aurora B Kinase Promote T-cell Leukemogenesis. **Cancer Cell**. (刘胡丹)
7. Cai, Z., Zhang, M.X., Tang, Z., Zhang, Q., Ye, J., Xiong, T.C., Zhang, Z.D., **Zhong, B.\*** (2020). USP22 promotes IRF3 nuclear translocation and antiviral responses by deubiquitinating the importin protein KPNA2. **J Exp Med** 217, 5: e20191174. (钟波)
8. Zhong, X., Feng, L., Zang, R., Lei, C.Q., Yang, Q., and **Shu, H.B.\*** (2020). ZFYVE1 negatively regulates MDA5- but not RIG-I-mediated innate antiviral response. **PLoS Pathog** 16, e1008457. (舒红兵)
9. Lu, S., Li, F., Chen, Q., Wu, J., Duan, J., Lei, X., Zhang, Y., Zhao, D., Bu, Z.\*, and **Yin, H.\*** (2020). Rapid detection of African swine fever virus using Cas12a-based portable paper diagnostics. **Cell Discov** 6, 18. (殷昊)
10. Zhong, L., Hu, M.M., Bian, L.J., Liu, Y., Chen, Q., and **Shu, H.B.\*** (2020). Phosphorylation of cGAS by CDK1 impairs self-DNA sensing in mitosis. **Cell Discov** 6, 26. (舒红兵)

11. Liao, C.Y., Lei, C.Q., and **Shu, H.B.\*** (2020). PCBP1 modulates the innate immune response by facilitating the binding of cGAS to DNA. **Cell Mol Immunol**. (舒红兵)
12. Zang, R., Lian, H., Zhong, X., **Yang, Q.\***, and **Shu, H.B.\*** (2020). ZCCHC3 modulates TLR3-mediated signaling by promoting recruitment of TRIF to TLR3. **J Mol Cell Biol** 12, 251-262. (杨清、舒红兵)
13. Gao, P., Hu, M.M., and **Shu, H.B.\*** (2020). CSK promotes innate immune response to DNA virus by phosphorylating MITA. **Biochem Biophys Res Commun** 526, 199-205. (舒红兵)
14. Luo, Z., Mu, L., Zheng, Y., Shen, W., Li, J., Xu, L., Zhong, B., **Liu, Y.\***, and **Zhou, Y.\*** (2020). NUMB enhances Notch signaling by repressing ubiquitination of NOTCH1 intracellular domain. **J Mol Cell Biol** 12, 345-358. (刘颖、周严)
15. Van Nostrand, E.<sup>#</sup>, Freese, P.<sup>#</sup>, Pratt, G.<sup>#</sup>, Wang, X.<sup>#</sup>, Wei, X.<sup>#</sup>, **Xiao, R.<sup>#</sup>** et al. (2020). A Large-Scale Binding and Functional Map of Human RNA Binding Proteins. **Nature** 583, 711–719. (肖锐)
16. Wang, J., Li, Y., Wang, P., Han, G., Zhang, T., Chang, J., Yin, R., Shan, Y., Wen, J., Xie, X., Feng, M., Wang, Q., Hu, J., Cheng, Y., Zhang, T., Li, Y., Gao, Z., Guo, C., Wang, J., Liang, J., Cui, M., Gao, K., Chai, J., Liu, W., Cheng, H., Li, L., Zhou, F., Liu, L., Luo, Y., Li, S., **Zhang, H.\*** (2020). Leukemogenic Chromatin Alterations Promote AML Leukemia Stem Cells via a KDM4C-ALKBH5-AXL Signaling Axis. **Cell Stem Cell** 27, 81-97 e88. (张好建)
17. Wang, X.M., Yang, C., Zhao, Y., Xu, Z., Wang, P., Yang, W., Lin, D., Xiong, B., Fang, J., Dong, C., **Zhong, B.\*** (2020). The deubiquitinase USP25 supports colonic inflammation and bacterial infection and promotes colorectal cancer. **Nat Cancer** 1: 811-825. (钟波)
18. Dong, Y., Tu, R., Liu, H., and **Qing, G.\*** (2020). Regulation of cancer cell metabolism: oncogenic MYC in the driver's seat. **Signal Transduct Target Ther** 5, 124. (卿国良)
19. Yu, Y., and **Jiang, W.\*** (2020). Pluripotent stem cell differentiation as an emerging model to study human prostate development. **Stem Cell Res Ther** 11, 285. (蒋卫)
20. Yang, J., and **Jiang, W.\*** (2020). The Role of SMAD2/3 in Human Embryonic Stem Cells. **Front Cell Dev Biol** 8, 653. (蒋卫)
21. Li, M., and **Shu, H.B.\*** (2020). Dephosphorylation of cGAS by PPP6C impairs its substrate binding activity and innate antiviral response. **Protein & Cell** 11, 584-599. (舒红兵)
22. Geng, A.<sup>#</sup>, Wu, T.<sup>#</sup>, **Cai, C.<sup>#</sup>**, Song, W., Wang, J., Yu, Q.C.\*, and Zeng, Y.A.\* (2020). A novel

function of R-spondin1 in regulating estrogen receptor expression independent of Wnt/beta-catenin signaling. **Elife** 9: e56434. (蔡车国)

23. Song, Z.M., Lin, H., Yi, X.M., Guo, W., Hu, M.M., and **Shu, H.B.\*** (2020). KAT5 acetylates cGAS to promote innate immune response to DNA virus. **Proc Natl Acad Sci U S A** 117, 21568-21575. (舒红兵)
24. Yang, J., Lu, P., Li, M., Yan, C., Zhang, T., and **Jiang, W.\*** (2020). GATA6-AS1 Regulates GATA6 Expression to Modulate Human Endoderm Differentiation. **Stem Cell Reports** 15, 694-705. (蒋卫)
25. Zhou, X., Ding, G., Li, J., Xiang, X., Rushworth, E., **Song, W.\*** (2020). Physiological and Pathological Regulation of Peripheral Metabolism by Gut-Peptide Hormones in Drosophila. **Front Physiol** 11:577717. (宋威)
26. Zeng, J.<sup>#</sup>, Dong, S.<sup>#</sup>, Luo, Z.<sup>#</sup>, Xie, X.<sup>#</sup>, **Fu, B.<sup>#</sup>**, Li, P.<sup>#</sup>, Liu, C.<sup>#</sup>, Yang, X., Chen, Y., Wang, X., et al. (2020). The Zika Virus Capsid Disrupts Corticogenesis by Suppressing Dicer Activity and miRNA Biogenesis. **Cell Stem Cell** 27, 618-632 e619. (付碧石)
27. Zhang, Q., Tang, Z., An, R., Ye, L., and **Zhong, B.\*** (2020). USP29 maintains the stability of cGAS and promotes cellular antiviral responses and autoimmunity. **Cell Res** 30, 914-927. (钟波)
28. Du, X., and **Xiao, R.\*** (2020). An emerging role of chromatin-interacting RNA-binding proteins in transcription regulation. **Essays Biochem** 64, 907-918. (肖锐)
29. Chen, Q., **Zhang, Y.\***, and **Yin, H.\*** (2020). Recent advances in chemical modifications of guide RNA, mRNA and donor template for CRISPR-mediated genome editing. **Adv Drug Deliv Rev.** (张楹、殷昊)
30. Zhang, Z.D., Xiong, T.C., Yao, S.Q., Wei, M.C., Chen, M., Lin, D., and **Zhong, B.\*** (2020). RNF115 plays dual roles in innate antiviral responses by catalyzing distinct ubiquitination of MAVS and MITA. **Nat Commun** 11, 5536. (钟波)
31. Tu, R., Chen, Z., Bao, Q., Liu, H., and **Qing, G.\*** (2020). Crosstalk between oncogenic MYC and noncoding RNAs in cancer. **Semin Cancer Biol.** (卿国良)
32. Tian, K., Wang, A., Wang, J., Li, W., Shen, W., Li, Y., Luo, Z., **Liu, Y.\***, and **Zhou, Y.\*** (2020). Transcriptome Analysis Identifies SenZfp536, a Sense LncRNA that Suppresses Self-renewal of Cortical Neural Progenitors. **Neurosci Bull.** (刘颖、周严)

33. Song, X., Wang, L., Wang, T., Hu, J., Wang, J., Tu, R., Su, H., Jiang, J., Qing, G., and **Liu, H.\*** (2020). Synergistic Targeting of CHK1 and mTOR in MYC-driven tumors. **Carcinogenesis**. (刘胡丹)
34. Zhang, M., Yang, W., Wang, P., Deng, Y., Dong, Y.T., Liu, F.F., Huang, R., Zhang, P., Duan, Y.Q., Liu, X.D., Lin, D.\*, Chu, Q.\*, **Zhong, B.\*** (2020). CCL7 recruits cDC1 to promote antitumor immunity and facilitate checkpoint immunotherapy to non-small cell lung cancer. **Nat Commun** 11, 6119. (钟波)
35. Sun, X., Liu, T., Zhao, J., Xia, H., Xie, J., Guo, Y., Zhong, L., Li, M., Yang, Q., Peng, C., Rouvet, I., Belot, A., Shu, H. B., Feng, P.\*, **Zhang, J.\*** (2020). DNA-PK deficiency potentiates cGAS-mediated antiviral innate immunity. **Nat Commun** 11, 6182. (张军杰)