

项目名称

新冠病毒受体识别、免疫逃逸与抗体中和的机制研究

代表性论文专著目录

1. Qin Hong, Wenyu Han, Jiawei Li, Shiqi Xu, Yifan Wang, Cong Xu, Zuyang Li, Yanxing Wang*, Chao Zhang*, Zhong Huang*, Yao Cong*. (2022) Molecular basis of receptor binding and antibody neutralization of Omicron. *Nature*, 604:546–552.
2. Cong Xu, Yanxing Wang, Caixuan Liu, Chao Zhang, Wenyu Han, Xiaoyu Hong, Yifan Wang, Qin Hong, Shutian Wang, Qiaoyu Zhao, Yalei Wang, Yong Yang, Kaijian Chen, Wei Zheng, Liangliang Kong, Fangfang Wang, Qinyu Zuo, Zhong Huang*, Yao Cong*. (2021) Conformational dynamics of SARS-CoV-2 trimeric spike glycoprotein in complex with receptor ACE2 revealed by cryo-EM. *Sci Adv*, 7(1):eabe5575.
3. Chao Zhang, Yifan Wang, Yuanfei Zhu, Caixuan Liu, Chenjian Gu, Shiqi Xu, Yalei Wang, Yu Zhou, Yanxing Wang, Wenyu Han, Xiaoyu Hong, Yong Yang, Xueyang Zhang, Tingfeng Wang, Cong Xu, Qin Hong, Shutian Wang, Qiaoyu Zhao, Weihua Qiao, Jinkai Zang, Liangliang Kong, Fangfang Wang, Haikun Wang, Di Qu, Dimitri Lavillette, Hong Tang, Qiang Deng*, Youhua Xie*, Yao Cong*, Zhong Huang*. (2021) Development and structural basis of a two-Mab cocktail for treating SARS-CoV-2 infections. *Nat Commun*,12:264.
4. Yifan Wang, Cong Xu, Yanxing Wang, Qin Hong, Chao Zhang, Zuyang Li, Shiqi Xu, Qinyu Zuo, Caixuan Liu, Zhong Huang*, Yao Cong*. (2021) Conformational dynamics of the Beta and Kappa SARS-CoV-2 spike proteins and their complexes with ACE2 receptor revealed by cryo-EM. *Nat Commun*, 12:7345.
5. Yifan Wang, Caixuan Liu, Chao Zhang, Yanxing Wang, Qin Hong, Shiqi Xu, Zuyang Li, Yong Yang, Zhong Huang*, Yao Cong*. (2022) Structural basis for SARS-CoV-2 Delta variant recognition of ACE2 receptor and broadly neutralizing antibodies. *Nat Commun*, 13:871.

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