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副教授，硕士研究生导师

● 教育和工作背景:

2007-2011 年，西南大学，动物医学专业，学士；
2011-2014 年，中国农业科学院，预防兽医学专业，硕士；
2014-2019 年，中国农业大学/中国科学院微生物研究所，预防兽医学专业，联合培养博士；
2020/11-2025/12，南昌大学基础医学院，讲师，硕士研究生导师；
2025/12-至今，南昌大学基础医学院，副教授，硕士研究生导师。

● 研究兴趣、领域:

从事病原微生物与蛋白质结构方面的研究，主要致力于利用病原学、结构生物学、生物化学等技术手段解析病原微生物与宿主的相互作用并探索阻断感染的干预策略。近年来，以第一作者或通讯作者（含共同）在 *Science*、*Nature Microbiology*、*mBio*、*Structure*、*Journal of Molecular Biology*、*International Journal of Biological Macromolecules* 等学术期刊发表论文 20 余篇；主持国家自然科学基金 2 项、江西省自然科学基金 3 项。

● 学术兼职:

中国微生物学会会员；中国生物物理学会会员；*The EMBO Journal*、*International Journal of Biological Macromolecules*、*Applied Microbiology and Biotechnology*、*Molecular Biomedicine*、*Virology*、*PLoS One* 等期刊审稿人。

● 主要成果、荣誉、奖励（#第一作者，*通讯作者）:

[1] Peng Q#, Li J#, **Jiang H#**, Cheng X#, Nag P, Kleinau G, Lamb TD, Busche L, Lu Q, Zhou S, Liu Y, Zhang Y, Lv S, Wan S, Yang T, Chen Y, Zhang W, Nan W, Fu Y, Che T, Li Y, Liao H, Duan J, Schapiro I, Scheerer P*, Zhang J*. Cryo-electron microscopy structures of human cone visual pigments. *Science*. 2026, 392(6805):eadz8141.
[2] **Jiang H#**, Peng W#, Qi J, Chai Y, Song H, Bi Y, Rijal P, Wang H, Oladejo BO, Liu J, Shi Y, Gao GF*, Townsend AR*, Wu Y*. Structure-Based Modification of an

Anti-neuraminidase Human Antibody Restores Protection Efficacy against the Drifted Influenza Virus. **mBio**. 2020, 11(5): e02315-20.

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[4] **Jiang H**, Li W, Zhou X, Zhang J, Li J^{*}. Crystal structures of coronaviral main proteases in complex with the non-covalent inhibitor X77. **Int J Biol Macromol**. 2024, 276(Pt 1): 133706.

[5] Lin C[#], **Jiang H[#]**, Li W, Zeng P, Zhou X, Zhang J^{*}, Li J^{*}. Structural basis for the inhibition of coronaviral main proteases by ensitrelvir. **Structure**, 2023, 31(9): 1016-1024.e3.

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- [14] **Jiang H***, Li J, Jian Y, Yang T, Zhang J*, Li J*. Expression, purification, and crystal structure of mpox virus A41 protein. **Protein Expr Purif**. 2024, 219:106480.
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Biochemical Analysis of the Human Chemokine Receptor CCR8. **Biochemistry**. 2024, 63(15):1892-1900.

[20] 指导本科生获得全国大学生生命科学竞赛（2023，创新创业类）二等奖.

● **联系方式:**

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