招生导师简介

一、个人简介



刘军，研究员，博导，2005年本科毕业于北京大学公共卫生学院，2010年中国科学院微生物所获博士学位，先后在中国科学院生物物理所和美国耶鲁大学医学院进行博士后训练，现任所长助理，国家流感中心副主任。曾获国家自然科学基金“优秀青年基金”，中组部“万人计划”青年拔尖人才，北京市科委“科技新星”，“北医优秀校友”，共中央、人社“全国青年岗位能手”，全国卫生健康系统“新冠肺炎疫情防控工作先进个人”，国家卫健委“优秀共产党员”，中华预防医学会科学技术奖一等奖，北京市科学技术奖三等奖，中国免疫学会青年学者奖，比尔和梅琳达•盖茨基金会Keystone国际学术研讨会奖，求是科技基金会“杰出科技成就集体奖”骨干，中源协和生命医学创新突破奖等。近年来发表SCI论文100余篇，作为通讯或第一作者在Nature、NatCommun、Immunity、PNAS、PLoSBiol、PLoSPathog、J Infect Dis(2篇）、JVirol（7篇）、JImmunol（5篇）等杂志发表论文50余篇，参编著作5部。担任中国免疫学会理事等多个学术组织职务。《Biosafety and Health》副主编，《Infectious DiseasesandImmunity》、《中华实验和临床病毒学杂志》编委，《Science China Life Sciences》、《病毒学报》等杂志特约编辑。作为埃博拉检测队队长等职先后四次赴几内亚、塞拉利昂和刚果（金）进行埃博拉疫情的防控和实验室检测工作。2019年底开始，先后赴武汉、绥芬河、哈尔滨、舒兰和北京新发地等开展新冠疫情的现场防控工作。在武汉一线工作一百余天。

二、主要研究方向

1. **病毒性疾病的细胞免疫研究**

病毒特异性细胞免疫反应的检测及其在诊断和免疫干预治疗中的应用，临床感染的免疫病理检测和人群免疫屏障监测，细胞免疫应答中重要分子的结构学研究，细胞免疫相关的疫苗设计和评价等。

2.**病毒分子流行病学研究**

病毒抗原性变异与进化、新发病毒交叉免疫水平等免疫分子流行病学研究等。

三、代表性科研项目

1. 国家自然科学基金优秀青年基金：课题名称：病毒感染的特异T细胞免疫课题负责人：刘军(81822040)；
2. 国家自然科学基金面上项目：课题名称：蝙蝠MHC I类分子呈递病毒多肽及T细胞识别分子机制研究课题负责人：刘军(81971501)；
3. 国家万人计划青年拔尖人才支持计划课题负责人：刘军(W03070020)；
4. 国家自然科学基金面上项目：课题名称：不同HLA超级型人群对流感病毒的交叉CD8T细胞反应及机制研究课题负责人：刘军(81373141)；
5. 国家自然科学基金青年科学基金项目：课题名称：健康人群对禽流感病毒的交叉T细胞免疫反应及分子机制课题负责人：刘军(81401312)；
6. 国家科技重大专项：课题名称：病毒性出血热症候群监测与新病原发现课题负责人：刘军 (2016ZX10004222-003)；
7. 国家科技重大专项：课题名称：重要传染病实验室保障技术研究课题负责人：刘军 (2018ZX10101002-005)

四、代表性论文、成果

# 论文（通讯/第一作者）

# Zhu L, Yang P, Zhao Y, Zhuang Z, Wang Z, Song R, Zhang J, Liu C, Gao Q, Xu Q, Wei X, Sun HX, Ye B, Wu Y, Zhang N, Lei G, Yu L, Yan J, Diao G, Meng F, Bai C, Mao P, Yu Y, Wang M, Yuan Y, Deng Q, Li Z, Huang Y, Hu G, Liu Y, Wang X, Xu Z, Liu P, Bi Y, Shi Y, Zhang S, Chen Z, Wang J, Xu X, Wu G, Wang FS, Gao GF, Liu L, Liu WJ\*. Single-Cell Sequencing of Peripheral Mononuclear Cells Reveals Distinct Immune Response Landscapes of COVID-19 and Influenza Patients. Immunity. 2020 Jul 19:S1074-7613(20)30316-2.

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# Pengyan Wang, William J Liu. It's Not Just Science: Challenges for Public Health Intervention in Ebola Epidemics in the Democratic Republic of Congo. Sci China Life Sci. 2020 Jul;63(7):1079-1081.

# [Chuansong Quan](https://www.ncbi.nlm.nih.gov/pubmed/?term=Quan%20C%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Qianli Wang](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wang%20Q%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Jie Zhang](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zhang%20J%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Min Zhao](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zhao%20M%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Qigang Dai](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dai%20Q%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Ting Huang](https://www.ncbi.nlm.nih.gov/pubmed/?term=Huang%20T%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Zewu Zhang](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zhang%20Z%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Shenghua Mao](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mao%20S%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Yifei Nie](https://www.ncbi.nlm.nih.gov/pubmed/?term=Nie%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Jun Liu](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20J%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Yun Xie](https://www.ncbi.nlm.nih.gov/pubmed/?term=Xie%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Baorong Zhang](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zhang%20B%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Yuhai Bi](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bi%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Weifeng Shi](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shi%20W%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Peipei Liu](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20P%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Dayan Wang](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wang%20D%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Luzhao Feng](https://www.ncbi.nlm.nih.gov/pubmed/?term=Feng%20L%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [Hongjie Yu](https://www.ncbi.nlm.nih.gov/pubmed/?term=Yu%20H%5BAuthor%5D&cauthor=true&cauthor_uid=31742536), [William J. Liu](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20WJ%5BAuthor%5D&cauthor=true&cauthor_uid=31742536)\*, and [George F. Gao](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gao%20GF%5BAuthor%5D&cauthor=true&cauthor_uid=31742536)\*. Avian Influenza A Viruses among Occupationally Exposed Populations, China, 2014-2016. [Emerg Infect Dis.](https://www.ncbi.nlm.nih.gov/pubmed/31742536) 2019 Dec;25(12):2215-2225.

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5. **William J Liu**#**\***, Foday R. Sesay#, Antoine Coursier#, Barbara Knust#, Jaclyn E. Marrinan, Shannon Whitmer, Suzanna L. R. McDonald, Philippe Gaillard, Yang Liu, Qiudong Su, Yong Zhang, Ian Crozier, ArchchunAriyarajah, MarylinCarino, Thomas Massaquoi, Nathalie Broutet, Wenbo Xu, Guizhen Wu, Ute Ströher, George F. Gao, Pierre Formenty, FodaySahr, and Gibrilla F. Deen; for the Sierra Leone Ebola Virus Persistence Study Group .[Comprehensive Clinical and Laboratory Follow-up of a Female Patient With Ebola Virus Disease: Sierra Leone Ebola Virus Persistence Study.](https://www.ncbi.nlm.nih.gov/pubmed/30949523)**Open Forum Infect Dis.** 2019,6(3):ofz068.
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10. ChuansongQuan#, Ting Huang#, Xiuwei Chen, Jie Zhang, Qianli Wang, Cheng Zhang, Tingyan Zhang, Lijun Zhou, Liumei Shu, Chunrong Long, Lei Yang, Xunbo Du, Yingze Zhao, Peipei Liu, Hao Song, Weifeng Shi, Yuhai Bi, QiangLv, **William J. Liu\***,George F. Gao\*. Genomic characterizations of H4 subtype avian influenza viruses from live poultry markets in Sichuan province of China, 2014-2015. **Sci China Life Sci.** 2018 Sep;61(9):1123-1126
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14. Yang Liu#, Yulan Sun#, Wei Wu#, Aqian Li, Xianda Yang, Shuo Zhang, Chun Li, Qiudong Su, ShaojianCai, Dapeng Sun, Haiyang Hu, Zhe Zhang, Xiuxu Yang, Idrissa Kamara, ShekuKoroma, Gerald Bangura, Alie Tia, Abdul Kamara, Matt Lebby, Brima Kargbo, Jiandong Li, Shiwen Wang, XiaoPing Dong, YueLong Shu, WenBo Xu, George F. Gao, GuiZhen Wu, DeXin Li, **William J. Liu\***, MiFang Liang\*. Serological Investigation of Laboratory-Confirmed and Suspected Ebola Virus Disease Patients During the Late Phase of the Ebola Outbreak in Sierra Leone**. Virol Sin.**2018 Aug;33(4):323-334.
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