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| **个人简介** |  |
| **姓名：胡媛****性别: 女****出生年月：1976.7****学位/学历：博士/研究生****职称：研究员****电子邮件：huyuan@nipd.chinacdc.cn****办公地址：上海市黄浦区瑞金二路207号** |
| **教育经历** |
| 1994.9-1999.6 武汉大学医学院 临床医学专业 获学士学位2002.9-2007.6 华中科技大学同济医学院病原生物学专业 硕博连读 获博士学位 |
| **工作经历** |
| 1999.7-2002.8 湖北黄石理工大学医学院 免疫微生物学 助教2007.7-至今 中国疾病预防控制中心寄生虫病预防控制所（国家热带病研究中心） 研究员2016.8-2016.12 美国密苏里大学哥伦比亚分校 访问学者 |
| **社会/学术任职和活动** |
| 中国微生物学人兽共患病病原学专业委员会委员上海市寄生虫学会第十届理事会副秘书长上海市寄生虫学会第十一届理事会理事 |
| **研究方向/主要研究内容** |
| 1.寄生虫与宿主相互作用机制的研究；2.寄生虫疫苗的研制； |
| **科研/教学研究项目** |
| 1.上海市自然科学基金“KLB靶向TGF-β通路下调肝脏上皮间质转化（EMT）及血吸虫病肝纤维化的机制研究”No.23ZR1469500,2023-2026.(主持)2.上海市自然科学基金“TIGIT+NK与MDSC细胞串化在血吸虫肝纤维化中的作用及其机制研究”，No.19ZR1462600，2019-2022.（主持）3.国家传染病重大专项子任务“突发急性传染病寄生虫分离培养及筛选鉴定”，No.2018ZX10102001-002-004，2018-2020.（主持）4.上海市自然科学基金“巨噬细胞内TLRs-NF-kB和NLRP3炎症小体共活化在抗血吸虫病机制中的作用研究”，No.14ZR1444200，2014-2017.（主持）5.国家自然科学基金“建立免疫模型研究东方田鼠对血吸虫感染的天然抗性机制”No.30801047，2009-2011.（主持）6.上海市公共卫生体系建设三年行动计划“优秀青年人才项目”2009-2011.（主持）7.国家自然科学基金“cGAS靶向GSK3β调控E-cadherin表达促进血吸虫病肝纤维化的作用机制研究”，No.82272369,2023-2026(参加)8.上海市公共卫生体系建设三年行动计划“重点学科建设”，No.GWVI-11.1-12, 2023-2025(参加)9.上海市公共卫生体系建设三年行动计划“重点学科建设”，No.GWVI-10.1-XK13，2020-2022（参加）10.国家公益性卫生行业科研专项“肉源性、水源性寄生虫病监测和风险评估关键技术研究”，No.201502021，2015-2018（参加）11.传染病重大专项子课题“寄生虫类传染病病原体检测试剂评价用样品盘的建立”，No.2013ZX10004-805-007, 2013-2015（参加） |
| **主要学术成果** |
| **期刊论文**1. Xu Fangfang, Gao Yuan, Li Teng, Jiang Tingting, Wu Xiaoying, Yu Zhihao, Zhang Jing, Hu Yuan\*, Cao Jianping\*. Single-Cell Sequencing Reveals the Heterogeneity of Hepatic Natural Killer Cells and Identifies the Cytotoxic Natural Killer Subset in Schistosomiasis Mice. International Journal of Molecular Sciences. Int J Mol Sci. 2025. 26(7):3211.
2. Gao Yuan; Zhang Xiaocheng; Jiang Tingting; Zhou Hao; Liu Hua; Hu Yuan\*; Cao Jianping\*. Inhibition of hepatic natural killer cell function via the TIGIT receptor in schistosomiasis-induced liver fibrosis, PLoS Pathog, 2023, 19(3): e1011242.
3. Jiang Tingting; Wu Xiaoying; Zhou Hao; Hu Yuan\*; Cao Jianping\*. Pathological Changes in Hepatic Sinusoidal Endothelial Cells in Schistosoma japonicum-Infected Mice, Trop Med Infect Dis, 2023, 8(2): 124.
4. Yu ZhiHao; Jiang Tingting; Xu Fangfang; Zhang Jin; Hu Yuan\*; Cao Jianping\*. Inhibiting liver autophagy and promoting hepatocyte apoptosis by Schistosoma japonicum infection, Trop Med Infect Dis, 2024, 9(2): 42.
5. Hu Yuan﹟, Wang Xiaolin﹟, Wei Yuhuan, Liu Hua, Zhang Jin, Shen Yujuan, Cao Jianping\*. Functional inhibition of natural killer cells in a BALB/c mouse model of liver fibrosis induced by Schistosoma japonicum infection. Front Cell Infect Microbiol. 2020, 10:598987.
6. Sun Lei, Gong Wenci, Shen Yujuan, Liang Le, Zhang Xiaofan, Li Teng, Chen Tuwen, Hu Yuan\*, Cao Jianping\*. IL-17A-producing γδT cells promote liver pathology in acute murine schistosomiasis. Parasit Vectors. 2020, 13(1):334.
7. Hu Yuan, Sun Lei, Yuan Zhongying, Xu Yuxin, Cao Jianping\*. High throughput data analyses of the protective immune characteristics of Microtus fortis in response to Schistosoma japonicum. Sci Rep. 2017, 7(1): 11311.
8. Hu Yuan, Xu Yuxin, Lu Weiyuan, Yuan Zhongying, Quan Hong, Shen Yujuan, Cao Jianping\*. De novo assembly and transcriptome characterization : novel insights into the natural resistance mechanisms of Microtus fortis against Schistosoma japonicum. BMC Genomics.2014,15:417.
9. Hu Yuan, Xu Yuxin, Lu weiyuan, Quan Hong, Shen Yujuan, Yuan Zhongying, Zhang Jin, Zang Wei, He Yongkkang, Cao Jianping\*. Effects of Microtus fortis lymphocytes on Schistosoma japonicum in a bone marrow transplantation model. Exp Parasitol. 2014, 142: 27-37.
10. **H**u Yuan, Lu Weiyuan, Shen Yujuan, Xu Yuxin, Yuan Zhongying, Cao Jianping\*. Immune changes of Schistosoma japonicum infections in various rodent disease models. Exp Parasitol. 2012,131(2):180-9.
11. Hu Yuan, Shi Youen\*, Yu Longjiang, Zhu Xiaohua, Li Liuzhe, Melanie Cash, Zhu Lu, Liu Zhi, Song Dengxin. Studies on the protective immunity of Schistosoma japonicum bivalent DNA vaccine encoding Sj23 and Sj14. Exp Parasitol. 2007, 115(4):379-86.
12. 徐方方，陈权，胡媛\*，曹建平. Tsc22d3 在日本血吸虫感染小鼠肝脏NK 细胞中的表达及对NK杀伤功能的影响. 中国寄生虫学与寄生虫病杂志.2025, 43 (2): 175-180.
13. 吴晓莹，胡媛\*，曹建平. 细粒棘球绦虫多肽-壳聚糖季铵盐纳米颗粒的制备. 中国寄生虫学与寄生虫病杂志. 2023, 41 (3): 300-305.
14. 高元, 章孝成, 胡媛\*, 曹建平. [自然杀伤细胞抑制血吸虫病肝纤维化作用的研究](http://www.jsczz.cn/CN/10.12140/j.issn.1000-7423.2022.02.006). 中国寄生虫学与寄生虫病杂志. 2022, 40 (2): 168-174.
15. 章孝成, 高元, 胡媛\*, 曹建平. 日本血吸虫感染小鼠脾多核型髓源抑制细胞变化的初步研究. 中国寄生虫学与寄生虫病杂志. 2022, 40 (3): 330-336.
16. 魏玉环, 刘华, 李武军, 赵海, 胡媛\*, 曹建平. 西藏阿里地区细粒棘球蚴人体分离株nad1基因多态性分析.中国寄生虫学与寄生虫病杂志. 2020, 38(1): 17-21.
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| **荣誉及奖项** |
| 2023年“血吸虫寄生和致病关键分子机制”成果获上海市自然科学奖二等奖（排名第三） |

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| **Profile** |  |
| **Name：Yuan Hu****Gender：Female****Date of birth：1976.7****Degree：Ph.D.****Title：Researcher****Email：huyuan@nipd.chinacdc.cn****Address：207 Ruijin Er Road, Shanghai, China** |
| **Education** |
| 1994.9-1999.6 Wuhan University School of Basic Medical Science, Clinical Medicine Science, Bachelor2002.9-2007.6 Tongji Medical College of Huazhong University of Science and Technology, Pathogen biology, PhD |
| **Appointments** |
| 1999.7-2002.8 Medical College of Hubei Polytechnic University, Immunology and Microbiology, Teaching assistant2007.7-up to now Chinese Center for Disease Control and Prevention National Institute of Parasitic Disease, Researcher2016.8-2016.M12 University of Missouri, Columbia, USA, Visiting scholar |
| **Academic Participation and Activities** |
| Member of the Professional Committee of [zoonosis](https://dict.youdao.com/w/zoonosis/#keyfrom=E2Ctranslation) of Chinese MicrobiologyDeputy secretary general of the 10th Council of Shanghai Parasitology SocietyMember of the 11th Council of Shanghai Parasitology Society |
| **Research Interest** |
| 1. To study on the relationship between parasite and host.2. To develop vaccines against parasitic diseases. |
| **Projects** |
| 1. 1.The General Project of Shanghai Natural Science Foundation“Study on the Mechanism of KLB Targeting the TGF-β Pathway to Down-regulate hepatic epithelial-mesenchymal transition (EMT) and Liver Fibrosis in Schistosomiasis”, No.23ZR1469500,2023-2026. (Project leader)
2. 2.The General Project of Shanghai Natural Science Foundation“Study on the role and mechanism of TIGIT+NK and MDSC cell cascade in liver fibrosis induced by schistosoma japonicum infection”, No.19ZR1462600，2019-2022.（Project leader）
3. 3.The Subtasks of National Infectious Diseases Major project“Isolation, culture, screening and identification of parasites induced emergent infectious diseases”, No.2018ZX10102001-002-004，2018-2020.（Project leader）
4. 4.The General Project of Shanghai Natural Science Foundation“Study on the role of TLRs-NF-kB and NLRP3 inflammatory bodies co-activation in macrophages in anti-schistosomiasis mechanism”，No.14ZR1444200，2014-2017.（Project leader）
5. 5.The National Natural Science Fund project“The establishment of immunological model to study the natural resistance mechanism of Microtus fortis infected with schistosoma japonicum”No.30801047，2009-2011.（Project leader）
6. 6.[Three-year plan for developing a public health system](http://dict.cn/Three-year%20plan%20for%20developing%20a%20public%20health%20system) "Outstanding Young Talent Project", 2009-2011. (Project leader)
7. 7. The National Natural Science Fund project “The Mechanism of cGAS targeting GSK3β to regulate E-cadherin Expression and Promote Liver Fibrosis in Schistosomiasis”, No.82272369, 2023-2026. (Participation)
8. 8. [Three-year plan for developing a public health system](http://dict.cn/Three-year%20plan%20for%20developing%20a%20public%20health%20system) “Construction of key Disciplines”, No.GWVI-11.1-12, 2023-2025. (Participation).
9. 9. [Three-year plan for developing a public health system](http://dict.cn/Three-year%20plan%20for%20developing%20a%20public%20health%20system) “Construction of key Disciplines”, No. GWV-10.1-XK13，2020-2022 (Participation)
10. 10.The National Special Research Fund for Non-Profit Sector “Research on key technologies for surveillance and risk assessment of flesh-borne and water-borne parasitic diseases”，No. 201502021，2015-2018 （Participation）
11. 11.The Sub-project of Major Projects for Infectious Diseases“Establishment of sample tray for pathogen detection reagent evaluation of parasitic infectious diseases”，No.2013ZX10004-805-007, 2013-2015（Participation）
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| **Publications** |
| 1. Xu Fangfang, Gao Yuan, Li Teng, Jiang Tingting, Wu Xiaoying, Yu Zhihao, Zhang Jing, Hu Yuan\*, Cao Jianping\*. Single-Cell Sequencing Reveals the Heterogeneity of Hepatic Natural Killer Cells and Identifies the Cytotoxic Natural Killer Subset in Schistosomiasis Mice. International Journal of Molecular Sciences. Int J Mol Sci. 2025. 26(7):3211.
2. Gao Yuan; Zhang Xiaocheng; Jiang Tingting; Zhou Hao; Liu Hua; **Hu Yuan**\*; Cao Jianping\*. Inhibition of hepatic natural killer cell function via the TIGIT receptor in schistosomiasis-induced liver fibrosis, PLoS Pathog, 2023, 19(3): e1011242.
3. Jiang Tingting; Wu Xiaoying; Zhou Hao; Hu Yuan\*; Cao Jianping\*. Pathological Changes in Hepatic Sinusoidal Endothelial Cells in Schistosoma japonicum-Infected Mice, Trop Med Infect Dis, 2023, 8(2): 124.
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5. Hu Yuan﹟, Wang Xiaolin﹟, Wei Yuhuan, Liu Hua, Zhang Jin, Shen Yujuan, Cao Jianping\*. Functional inhibition of natural killer cells in a BALB/c mouse model of liver fibrosis induced by Schistosoma japonicum infection. Front Cell Infect Microbiol. 2020, 10:598987.
6. Sun Lei, Gong Wenci, Shen Yujuan, Liang Le, Zhang Xiaofan, Li Teng, Chen Tuwen, Hu Yuan\*, Cao Jianping\*. IL-17A-producing γδT cells promote liver pathology in acute murine schistosomiasis. Parasit Vectors. 2020, 13(1):334.
7. Hu Yuan, Sun Lei, Yuan Zhongying, Xu Yuxin, Cao Jianping\*. High throughput data analyses of the protective immune characteristics of Microtus fortis in response to Schistosoma japonicum. Sci Rep. 2017, 7(1): 11311.
8. Hu Yuan, Xu Yuxin, Lu Weiyuan, Yuan Zhongying, Quan Hong, Shen Yujuan, Cao Jianping\*. De novo assembly and transcriptome characterization : novel insights into the natural resistance mechanisms of Microtus fortis against Schistosoma japonicum. BMC Genomics.2014,15:417.
9. Hu Yuan, Xu Yuxin, Lu weiyuan, Quan Hong, Shen Yujuan, Yuan Zhongying, Zhang Jin, Zang Wei, He Yongkkang, Cao Jianping\*. Effects of Microtus fortis lymphocytes on Schistosoma japonicum in a bone marrow transplantation model. Exp Parasitol. 2014, 142: 27-37.
10. Hu Yuan, Lu Weiyuan, Shen Yujuan, Xu Yuxin, Yuan Zhongying, Cao Jianping\*. Immune changes of Schistosoma japonicum infections in various rodent disease models. Exp Parasitol. 2012,131(2):180-9.
11. Hu Yuan, Shi Youen\*, Yu Longjiang, Zhu Xiaohua, Li Liuzhe, Melanie Cash, Zhu Lu, Liu Zhi, Song Dengxin. Studies on the protective immunity of Schistosoma japonicum bivalent DNA vaccine encoding Sj23 and Sj14. Exp Parasitol. 2007, 115(4):379-86.
12. Xu Fangfang, Chen Quan, Hu yuan\*, Cao Jianping. Changes of Tsc22d3 expression in NK cell in liver of mice infected with Schistosoma japonicum and the effect on the cytotoxicity of NK cells. Chin J Parasitol Parasit Dis. 2025, 43 (2): 175-180.
13. Wu Xiaoying, Hu yuan\*, Cao Jianping. Preparation of Echinococcus granulosus peptide embedded in chitosan quaternary ammonium salt nanoparticles. Chin J Parasitol Parasit Dis. 2023, 41 (3): 300-305.
14. Gao Yuan, Hu yuan\*, Cao Jianping. Study on the inhibitory effect of natural killer cells on liver fibrosis of schistosomiasis. Chin J Parasitol Parasit Dis. 2022, 40 (2): 168-174.
15. Zhang Xiaocheng, Gao Yuan, Hu yuan\*, Cao Jianping. Preliminary study on the changes of plymorphonucler myeloid-derived suppressor cells in the spleen of mice infected with Schistosoma japonicum. Chin J Parasitol Parasit Dis. 2022, 40 (3): 330-336.
16. Wei Yuhuan, Liu Hua, Li Wujun, Zhao Hai, Hu Yuan\*, Cao Jianping. Investigation and analysis of genetic polymorphism of Echinococcus granulosus in Ali region of Tibet.Chin J Parasitol Parasit Dis. 2020, 38(1): 17-21.
 |
| **Honors and Awards** |
| “Key molecular mechanisms of schistosomiasis parasitism and pathogenicity” Second prize of Shanghai Natural Science Award (2023) |