

个人简介		
姓名：吕超 性别：男 出生年月：1991.07.10 学位/学历：博士研究生（在读） 职称：副研究员 电子邮件：lvchao@nipd.chinacdc.cn 办公地址：上海市黄浦区瑞金二路207号		
教育经历		
2009.09-2013.07 山东农业大学 动物医学 本科 2013.09-2014.07 上海师范大学 动物学 硕士研究生 2014.07-2016.06 中国农业科学院上海兽医研究所（联合培养） 2021.09-至今 上海交通大学医学院 公共卫生与预防医学 博士研究生		
工作经历		
2016.08-2019.07 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）研究实习员 2019.07-2023.07 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）助理研究员 2023.07-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）副研究员 2018.07-2019.07 国家卫生健康委疾病预防控制局（借调）		
社会/学术任职和活动		
无		
研究方向/主要研究内容		
以 One Health 理念为指导，围绕“寄生虫—宿主—微生物组—环境”之间的复杂互作关系，系统解析寄生虫感染对宿主肠道及组织微生态的影响，以及微生物组在寄生虫定植、免疫调控、疾		

病进展和传播中的作用机制。综合运用流行病学调查、动物模型、宏基因组学、转录组学、代谢组学和生物信息学等技术，重点关注人群、家畜、野生动物及环境界面中寄生虫与微生物群落的协同变化及跨界传播特征，探索可用于感染风险评估、疾病监测、早期诊断和干预的新型微生物标志物与潜在靶点，为人兽共患寄生虫病的精准防控和综合治理提供科学依据。
科研/教学研究项目
1.吡喹酮干预的日本血吸虫感染小鼠血清中核酸动态变化及其诊断价值的研究 上海市卫生健康委课题，主持，已结题 2.宠物和异宠等携带的未知微生物及其全景病原谱构建 国家科技重大专项，子任务负责人，在研 3. “一带一路”重要传染病流行规律和预警应对技术研究，国家科技重大专项，子课题2 秘书，已结题
主要学术成果
期刊论文 1. He ZZ, Lv C, Xie F, Wang K, Zhang QQ, Chen WY, He YQ, Hong Y, Xu J, Zhou XN. Genomic characterization and global lineage-plasmid context of a blaNDM-5-harboring Escherichia coli ST3014 isolate. One Health. 2026 Apr 9;22:101409. doi: 10.1016/j.onehlt.2026.101409. (共同第一作者) 2. Lv, C., Abdullah, M., Su, C. L., Chen, W., Zhou, N., Cheng, Z., Chen, Y., Li, M., Simpson, K. W., Elsaadi, A., Zhu, Y., Lipkin, S. M., & Chang, Y. F. (2025). Genomic characterization of Escherichia coli with a polyketide synthase (pks) island isolated from ulcerative colitis patients. BMC genomics, 26(1), 19. https://doi.org/10.1186/s12864-024-11198-x 3. Chao Lv, Yiwen Chen, Zile Cheng, Yongzhang Zhu, Weiye Chen, Nan Zhou, Yiming Chen, Yinlong Li , Wangping Deng , Xiaokui Guo, Min Li and Jing Xu. Global burden of zoonotic infectious diseases of poverty, 1990–2021. Infect Dis Poverty, 2024,12: 82. 4. Lv, C., Leng, J., Qian, M., Sun, B., Ye, H., Li, M., Zhou, N., Cheng, Z., Chen, Y., Guo, X., Shang, J.,

Zhang, L., & Zhu, Y. (2024). Antimicrobial resistance in <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> at human-animal interfaces on Chongming Island, Shanghai: A One Health perspective. <i>One health</i>, 19, 100910. https://doi.org/10.1016/j.onehlt.2024.100910 5. Huang J, Lv C, Li M, Rahman T, Chang YF, Guo X, Song Z, Zhao Y, Li Q, Ni P, Zhu Y. Carbapenem-resistant <i>Escherichia coli</i> exhibit diverse spatiotemporal epidemiological characteristics across the globe. <i>Commun Biol</i>. 2024 Jan 6;7(1):51. doi: 10.1038/s42003-023-05745-7. (共同第一作者) 6. Lv C, Li YL, Deng WP, Bao ZP, Xu J, Lv S, Li SZ, Zhou XN. The Current Distribution of <i>Oncomelania hupensis</i> Snails in the People's Republic of China Based on a Nationwide Survey. <i>Trop Med Infect Dis</i>. 2023 Feb 14;8(2):120. doi: 10.3390/tropicalmed8020120. 7. Lv C, Shang J, Zhang W, Sun B, Li M, Guo C, Zhou N, Guo X, Huang S, Zhu Y. Dynamic antimicrobial resistant patterns of <i>Escherichia coli</i> from healthy poultry and swine over 10 years in Chongming Island, Shanghai. <i>Infect Dis Poverty</i>. 2022 Sep 16;11(1):98. doi: 10.1186/s40249-022-01025-4. 8. Lv C, Deng W, Wang L, Qin Z, Zhou X, Xu J. Molecular Techniques as Alternatives of Diagnostic Tools in China as Schistosomiasis Moving towards Elimination. <i>Pathogens</i>. 2022 Feb 24;11(3):287. doi: 10.3390/pathogens11030287. 著作 无 专利 1.日本血吸虫重组多表位抗原及其应用 ZL201510706078X (2020.09.11) 排名第二。	荣誉及奖项 2013 年 山东省优秀毕业生，2018 年 上海市卫生健康行业优秀团员，2021 年 中国疾控中心优秀共产党员
--	--

Profile	
Name: Chao Lv Gender: male Date of birth: 1991. 07. 10 Degree: PhD Title: Associate Professor Email: lvchao@nipd.chinacdc.cn Address: 207 Ruijin Er Road, Shanghai, China	
Education	
September 2009 - July 2013 Shandong Agricultural University, Bachelor of Veterinary Medicine September 2013 - July 2014, Shanghai Normal University, Master of Zoology July 2014 – June 2016 Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences (Joint Training) September 2021 – Present, Shanghai Jiao Tong University School of Medicine, Doctoral of Public Health	
Appointments	
2016.08-2019.07, National Institute of Parasitic Diseases, China CDC (Chinese Center for Tropical Diseases Research), Research Intern 2019.07-2023.07 National Institute of Parasitic Diseases, China CDC (Chinese Center for Tropical Diseases Research), Assistant Professor 2023.07-Persent, National Institute of Parasitic Diseases, China CDC (Chinese Center for Tropical Diseases Research), Associate professor	
Academic Participation and Activities	
None	

Research Interest

Guided by the One Health concept, this work systematically elucidates the impact of parasitic infections on the host's intestinal and tissue microbiota, as well as the mechanisms by which the microbiome influences parasite colonization, immune regulation, disease progression, and transmission within the complex interplay among parasites, hosts, microbiomes, and environments. Integrating epidemiological surveys, animal models, metagenomics, transcriptomics, metabolomics, and bioinformatics, it focuses on the co-variation and cross-species transmission characteristics of parasites and microbial communities at the interfaces of human populations, livestock, wildlife, and their environments. The research aims to explore novel microbial biomarkers and potential targets for infection risk assessment, disease monitoring, early diagnosis, and intervention, thereby providing a scientific basis for the precise prevention, control, and integrated management of zoonotic parasitic diseases.

Projects

1. Study on Dynamic Changes of Nucleic Acids and Their Diagnostic Value in Serum of Mice Infected with *Schistosoma japonicum* Treated with Praziquantel, Shanghai Municipal Health Commission Project, Principal Investigator, Completed.
2. “X” Microorganisms Carried by Pets and Exotic Pets and Construction of Their Pan-Pathogen Profile, National Major Science and Technology Special Project, Sub-task Leader, Ongoing.
3. Research on Epidemiological Patterns and Early Warning and Response Technologies for Major Infectious Diseases Along the "Belt and Road", National Major Science and Technology Special Project, Secretary of Sub-topic 2, Completed.

Publications

1. He ZZ, Lv C, Xie F, Wang K, Zhang QQ, Chen WY, He YQ, Hong Y, Xu J, Zhou XN. Genomic characterization and global lineage-plasmid context of a blaNDM-5-harboring *Escherichia coli* ST3014 isolate. *One Health*. 2026 Apr 9;22:101409. doi: 10.1016/j.onehlt.2026.101409. (共同第一作者)
2. Lv, C., Abdullah, M., Su, C. L., Chen, W., Zhou, N., Cheng, Z., Chen, Y., Li, M., Simpson, K. W., Elsaadi, A., Zhu, Y., Lipkin, S. M., & Chang, Y. F. (2025). Genomic characterization of *Escherichia coli* with a polyketide synthase (pks) island isolated from ulcerative colitis patients. *BMC genomics*,

26(1), 19. https://doi.org/10.1186/s12864-024-11198-x 3. Chao Lv, Yiwen Chen, Zile Cheng, Yongzhang Zhu, Weiye Chen, Nan Zhou, Yiming Chen, Yinlong Li , Wangping Deng , Xiaokui Guo, Min Li and Jing Xu. Global burden of zoonotic infectious diseases of poverty, 1990–2021. <i>Infect Dis Poverty</i>, 2024,12: 82. 4. Lv, C., Leng, J., Qian, M., Sun, B., Ye, H., Li, M., Zhou, N., Cheng, Z., Chen, Y., Guo, X., Shang, J., Zhang, L., & Zhu, Y. (2024). Antimicrobial resistance in <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> at human-animal interfaces on Chongming Island, Shanghai: A One Health perspective. <i>One health</i>, 19, 100910. https://doi.org/10.1016/j.onehlt.2024.100910 5. Huang J, Lv C, Li M, Rahman T, Chang YF, Guo X, Song Z, Zhao Y, Li Q, Ni P, Zhu Y. Carbapenem-resistant <i>Escherichia coli</i> exhibit diverse spatiotemporal epidemiological characteristics across the globe. <i>Commun Biol</i>. 2024 Jan 6;7(1):51. doi: 10.1038/s42003-023-05745-7. （共同第一作者） 6. Lv C, Li YL, Deng WP, Bao ZP, Xu J, Lv S, Li SZ, Zhou XN. The Current Distribution of <i>Oncomelania hupensis</i> Snails in the People's Republic of China Based on a Nationwide Survey. <i>Trop Med Infect Dis</i>. 2023 Feb 14;8(2):120. doi: 10.3390/tropicalmed8020120. 7. Lv C, Shang J, Zhang W, Sun B, Li M, Guo C, Zhou N, Guo X, Huang S, Zhu Y. Dynamic antimicrobial resistant patterns of <i>Escherichia coli</i> from healthy poultry and swine over 10 years in Chongming Island, Shanghai. <i>Infect Dis Poverty</i>. 2022 Sep 16;11(1):98. doi: 10.1186/s40249-022-01025-4. 8. Lv C, Deng W, Wang L, Qin Z, Zhou X, Xu J. Molecular Techniques as Alternatives of Diagnostic Tools in China as Schistosomiasis Moving towards Elimination. <i>Pathogens</i>. 2022 Feb 24;11(3):287. doi: 10.3390/pathogens11030287.
Books
Patents
Recombinant Multiepitope Antigen of <i>Schistosoma japonicum</i> and Its Applications ZL201510706078X (2020.09.11)
Honors and Awards

Outstanding Graduate of Shandong Province in 2013