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| **个人简介** |  |
| **姓名：方圆**  **性别: 女**  **出生年月：1985年10月**  **学位/学历：博士**  **职称：副研究员**  **电子邮件：fangyuan@nipd.chinacdc.cn**  **办公地址：上海市黄浦区瑞金二路207号** |
| **教育经历** | |
| 2008.09–2014.01 华东师范大学 植物学 博士  2012.02–2013.04 美国加州大学伯克利分校 整合生物学系 联合培养博士  2004.09–2008.06 浙江师范大学 生物科学 理学学士 | |
| **工作经历** | |
| 2018.07–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） 媒传热带病室 副研究员  2014.07–2018.06 中国疾病预防控制中心寄生虫病预防控制所 媒传热带病室 助理研究员  2020.09–至今 上海交通大学医学院-国家热带病研究中心全球健康学院 环境健康研究系 兼职教师  2025.05–至今 海南热带病研究中心 兼职副研究员 | |
| **社会/学术任职和活动** | |
| 2021.05–2025.05 上海市预防医学会 上海市预防医学会病媒生物预防与控制专业委员会委员  2024.09–2029.08 中国地方病协会 中国地方病协会热带病专委会第五届委员  2021.05–2025-05 上海市黄浦区卫生健康委员会 青年医师培养资助计划学员导师 | |
| **研究方向/主要研究内容** | |
| 主要从事媒传热带病反向病原学、溯源、传播风险评估、预警监测和防治策略研究，蚊虫黄病毒传播机制、媒介杀虫剂抗药性及机制等研究。 | |
| **科研/教学研究项目** | |
| 主持或参与多项国自然国际合作项目、国家科技部重大专项、基础资源调查、上海市三年行动计划、中疾控中心青年科研基金等研究项目。目前在研的包括：  1）上海市卫生健康委，上海市医苑新星——青年医学人才（公共卫生领导者），2024-01至2026-12，主持  2）中国疾病预防控制中心寄生虫病预防控制所,科技创新支撑计划，媒传人兽共患病突破媒传屏障跨种传播的流行现状和传播机制，2024-04至于2026-12，主持  3）国家自然科学基金委员会, 国际(地区)合作与交流项目, 32311540013, 基于全健康理念的东亚地区新发及再发虫媒病毒病监测和早期预警研究, 2023-04-01 至 2025-12-31, 主要参与  4）国家自然科学基金委员会，面上项目，82473688，我国犬源型内脏利什曼病疫情回升和扩散的传播动力学及干预模式实证研究，2025-01 至 2027-12, 主要参与  5）国家科学技术部, 科技基础资源调查专项, 2022FY100904, 中国热带及亚热带生态圈主要疫源生物携带病毒资源调查——蚊和蜱等媒介生物及关联物种携带病毒资源调查, 2022-10 至 2025-09, 参与  6）国家科学技术部, “发育编程及其代谢调节”重点专项，重点研发，肠道菌吸血虫媒肠道微生物群对肠道发育和传播病原体能力的影响，2023-12至2028-12，参与 | |
| **主要学术成果** | |
| **期刊论文**   1. Chen, S.#; Fang, Y.#; Fujita, R.; Khater, E.I.M.; Li, Y.; Wang, W.; Qian, P.; Huang, L.; Guo, Z.; Zhang, Y.; Li S.\*. An Exploration of the Viral Coverage of Mosquito Viromes Using Meta-Viromic Sequencing: A Systematic Review and Meta-Analysis. Microorganisms 2024, 12, 1899. 2. Fang Y, Hang T, Yang L, Xue J, Fujita R, Feng X, Jiang T, Zhang Y, Li S, Zhou X. Long-distance spread of Tembusu virus, and its dispersal in local mosquitoes and domestic poultry in Chongming Island, China. Infect Dis Poverty. 2023; 12:52. 3. Fang Y, Khater E, Xue J, Ghallab E, Li Y, Jiang T, Li S. Epidemiology of mosquito-borne viruses in Egypt: A systematic review. Viruses. 2022; 14:1577. 4. Fang Y, Hang T, Xue J, Li Y, Li L, Wei Z, Yang L, Zhang Y. Diversity, Geography, and Host Range of Emerging Mosquito-Associated Viruses—China, 2010–2020. China CDC Weekly. 2021;35(3): 746–753. 5. Fang Y, Ernest T, Xue J, Zhang Y, Zhou X, Khater E. Detection of DENV-2 and insect-specific flaviviruses in mosquitoes collected from Jeddah, Saudi Arabia. Front Cell Infect Microbiol. 2021;11:626368. 6. Fang Y, Zhang W, Xue J, Zhang Y. Monitoring Mosquito-Borne Arbovirus in Various Insect Regions in China in 2018. Front Cell Infect Microbiol. 2021;11:640993. 7. Fang Y, Ernest T, Xue, J, Zhang Y, Zhou X, Khater E. Molecular analysis of targeted insecticide resistance gene mutations in field-caught mosquitos of medical importance from Saudi Arabia. J Med Entomol. 2021; 58(4): 1839–1848. 8. Fang Y, Li X, Zhang W, Xue J, Wang J, Yin S, Li S, Li X, Zhang Y. Molecular epidemiology of mosquito-borne viruses at the China-Myanmar border: discovery of a potential epidemic focus of Japanese encephalitis. Infect Dis Poverty. 2021; 10:57. 9. Sun D#, Fang Y#, Huang Y, Zhang Y\*. Contributions to the lymphatic filariasis elimination programme and post-elimination surveillance in China by NIPD-CTDR. Adv Parasit, 2020;110:146–180. 10. Fang Y, Shi W, Wu J, et al. Resistance to pyrethroid and organophosphate insecticides, and the geographical distribution and polymorphisms of target-site mutations in voltage-gated sodium channel and acetylcholinesterase 1 genes in Anopheles sinensis populations in Shanghai, China. Parasite Vector. 2019;12:396. 11. Fang Y, Zhang Y. Lessons from lymphatic filariasis elimination and the challenges of post-elimination surveillance in China. Infect Dis Poverty. 2019;8:66. 12. Fang Y, Zhang Y, Zhou Z, et al. New strains of Japanese encephalitis virus circulating in Shanghai, China after a ten-year hiatus in local mosquito surveillance. Parasite Vector. 2019;12:22. 13. Fang Y, Zhang Y, Zhou Z, et al. Co-circulation of Aedes flavivirus, Culex flavivirus, and Quang Binh virus in Shanghai, China. Infect Dis Poverty. 2018;7:75. 14. Fang Y, Shi W, Zhang Y. Molecular phylogeny of Anopheles hyrcanus group members based on ITS2 rDNA. Parasite Vector. 2017;10:417. 15. Fang Y, Shi W, Zhang Y. Molecular phylogeny of Anopheles hyrcanus group (Diptera: Culicidae) based on mtDNA COI. Infect Dis Poverty. 2017;6:61.   **著作**  参编《疟疾能在地球上消失吗？》、《非洲寄生虫学》、《非洲寄生虫学防治手册》、《曼氏热带病》、《全健康科技进展》等论著 | |
| **荣誉及奖项** | |
| 2023年全球卫生青年学术论坛优秀论文奖 | |

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| **Profile** |  |
| **Name：FANG Yuan**  **Gender：Female**  **Date of birth：Oct. 1985**  **Degree：Docter**  **Title：Associate Researcher**  **Email：fangyuan@nipd.chinacdc.cn**  **Address：207 Ruijin Er Road, Shanghai, China** |
| **Education** | |
| 2008.09–2014.01 East China Normal University, Ph.D. in Botany 2012.02–2013.04 University of California, Berkeley, Department of Integrative Biology, Joint Ph.D. Program 2004.09–2008.06 Zhejiang Normal University, B.Sc. in Biological Sciences | |
| **Appointments** | |
| 2018.07–Present: Associate Researcher, Department of Vector-borne Tropical Diseases, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention (National Center for Tropical Diseases Research)  2014.07–2018.06: Assistant Researcher, Department of Vector-borne Tropical Diseases, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention  2020.09–Present: Part-time Lecturer, Department of Environmental Health, School of Global Health, Shanghai Jiao Tong University School of Medicine - National Center for Tropical Diseases Research  2025.05–Present: Part-time Associate Researcher, Hainan Tropical Disease Research Center | |
| **Academic Participation and Activities** | |
| 2021.05–2025.05: Committee Member, Professional Committee of Vector-borne Disease Prevention and Control, Shanghai Preventive Medicine Association 2024.09–2029.08: Committee Member, Tropical Diseases Professional Committee, Chinese Endemic Disease Association (5th term) 2021.05–2025.05: Mentor, Youth Physician Training Program, Huangpu District Health Commission, Shanghai | |
| **Research Interest** | |
| I am mainly engaged in the research of reverse etiology, transmission risk assessment, early warning monitoring, and control strategies for vector-borne tropical diseases. My research also focuses on the transmission mechanisms of insect-specific flaviviruses, insecticide resistance in vectors, and the underlying mechanisms | |
| **Projects** | |
| I have hosted or participated in several research projects, including international collaboration projects funded by the National Natural Science Foundation of China, major national projects from the Ministry of Science and Technology, the Basic Resources Survey, and the Youth Scientific Research Fund of the China CDC. Currently, I am involved in the following ongoing projects:  Shanghai Municipal Health Commission: Shanghai Medical New Star—Youth Medical Talent (Public Health Leader), 2024-01 to 2026-12, Principal Investigator.  National Institute of Parasitic Diseases, China CDC: Technology Innovation Support Plan, "Breakthrough in the Cross-species Transmission Mechanisms of Vector-borne Zoonotic Diseases," 2024-04 to 2026-12, Principal Investigator.  National Natural Science Foundation of China: International (Regional) Cooperation and Exchange Project, 32311540013, "Monitoring and Early Warning of Emerging and Re-emerging Vector-borne Viral Diseases in East Asia Based on the One Health Concept," 2023-04-01 to 2025-12-31, Main Participant.  National Natural Science Foundation of China: General Project, 82473688, "Empirical Study on the Transmission Dynamics and Intervention Models of the Resurgence and Spread of Canine Visceral Leishmaniasis in China," 2025-01 to 2027-12, Main Participant.  Ministry of Science and Technology, China: Technology Basic Resource Survey Special Project, 2022FY100904, "Survey on Viral Resources Carried by Major Epidemic Vectors in China’s Tropical and Subtropical Ecosystems—Mosquitoes, Ticks, and Associated Species," 2022-10 to 2025-09, Participant.  Ministry of Science and Technology, China: Key Special Project on "Developmental Programming and Metabolic Regulation," 2023-12 to 2028-12, Participant.  These projects contribute to advancing the understanding of vector-borne diseases and offer significant potential for innovative control strategies. | |
| **Publications** | |
| 1. Chen, S.#; Fang, Y.#; Fujita, R.; Khater, E.I.M.; Li, Y.; Wang, W.; Qian, P.; Huang, L.; Guo, Z.; Zhang, Y.; Li S.\*. An Exploration of the Viral Coverage of Mosquito Viromes Using Meta-Viromic Sequencing: A Systematic Review and Meta-Analysis. Microorganisms 2024, 12, 1899. 2. Fang Y, Hang T, Yang L, Xue J, Fujita R, Feng X, Jiang T, Zhang Y, Li S, Zhou X. Long-distance spread of Tembusu virus, and its dispersal in local mosquitoes and domestic poultry in Chongming Island, China. Infect Dis Poverty. 2023; 12:52. 3. Fang Y, Khater E, Xue J, Ghallab E, Li Y, Jiang T, Li S. Epidemiology of mosquito-borne viruses in Egypt: A systematic review. Viruses. 2022; 14:1577. 4. Fang Y, Hang T, Xue J, Li Y, Li L, Wei Z, Yang L, Zhang Y. Diversity, Geography, and Host Range of Emerging Mosquito-Associated Viruses—China, 2010–2020. China CDC Weekly. 2021;35(3): 746–753. 5. Fang Y, Ernest T, Xue J, Zhang Y, Zhou X, Khater E. Detection of DENV-2 and insect-specific flaviviruses in mosquitoes collected from Jeddah, Saudi Arabia. Front Cell Infect Microbiol. 2021;11:626368. 6. Fang Y, Zhang W, Xue J, Zhang Y. Monitoring Mosquito-Borne Arbovirus in Various Insect Regions in China in 2018. Front Cell Infect Microbiol. 2021;11:640993. 7. Fang Y, Ernest T, Xue, J, Zhang Y, Zhou X, Khater E. Molecular analysis of targeted insecticide resistance gene mutations in field-caught mosquitos of medical importance from Saudi Arabia. J Med Entomol. 2021; 58(4): 1839–1848. 8. Fang Y, Li X, Zhang W, Xue J, Wang J, Yin S, Li S, Li X, Zhang Y. Molecular epidemiology of mosquito-borne viruses at the China-Myanmar border: discovery of a potential epidemic focus of Japanese encephalitis. Infect Dis Poverty. 2021; 10:57. 9. Sun D#, Fang Y#, Huang Y, Zhang Y\*. Contributions to the lymphatic filariasis elimination programme and post-elimination surveillance in China by NIPD-CTDR. Adv Parasit, 2020;110:146–180. 10. Fang Y, Shi W, Wu J, et al. Resistance to pyrethroid and organophosphate insecticides, and the geographical distribution and polymorphisms of target-site mutations in voltage-gated sodium channel and acetylcholinesterase 1 genes in Anopheles sinensis populations in Shanghai, China. Parasite Vector. 2019;12:396. 11. Fang Y, Zhang Y. Lessons from lymphatic filariasis elimination and the challenges of post-elimination surveillance in China. Infect Dis Poverty. 2019;8:66. 12. Fang Y, Zhang Y, Zhou Z, et al. New strains of Japanese encephalitis virus circulating in Shanghai, China after a ten-year hiatus in local mosquito surveillance. Parasite Vector. 2019;12:22. 13. Fang Y, Zhang Y, Zhou Z, et al. Co-circulation of Aedes flavivirus, Culex flavivirus, and Quang Binh virus in Shanghai, China. Infect Dis Poverty. 2018;7:75. 14. Fang Y, Shi W, Zhang Y. Molecular phylogeny of Anopheles hyrcanus group members based on ITS2 rDNA. Parasite Vector. 2017;10:417. 15. Fang Y, Shi W, Zhang Y. Molecular phylogeny of Anopheles hyrcanus group (Diptera: Culicidae) based on mtDNA COI. Infect Dis Poverty. 2017;6:61. | |
| **Books** | |
| **I have contributed to the compilation of several key works, including:**  **Can Malaria Disappear from Earth?**  **African Parasitology**  **Handbook of African Parasitology and Control**  **Manson's Tropical Diseases**  **Advances in One Health Technology** | |
| **Honors and Awards** | |
| **2023 Global Health Youth Academic Forum Outstanding Paper Award** | |