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| **个人简介** | **C:\Users\Wang Xu\Documents\WeChat Files\wxid_8721197211812\FileStorage\Temp\659d06769e878096cf16d3a81c25d10.jpg** |
| **姓名：王旭****性别: 男****出生年月：1992.10****学位/学历：博士研究生****职称：副研究员****电子邮件：wangxu@nipd.chinacdc.cn****办公地址：上海市黄浦区瑞金二路207号** |
| **教育经历** |
| 2022.08至2025.06, 中国疾病预防控制中心, 免疫学, 博士研究生2014.09至2017.06, 华东师范大学, 生态学, 硕士研究生2010.09至2014.07, 山西师范大学, 生物工程, 大学本科       |
| **工作经历** |
| **2017.07至2020.06，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****2018.12至2019.06，中国疾病预防控制中心援塞拉利昂固定生物安全实验室，技术专家****2020.01至2020.12，中国疾病预防控制中心包虫病防控甘孜州工作站，站长，挂职甘孜州疾控中心党支部副书记和疾控一科科长****2020.07至2024.06，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****2024-07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** |
| **社会/学术任职和活动** |
| 《疾病监测》杂志青年编委《PLOS Neglected Tropical Diseases》、《Science in One Health》、《中国寄生虫学与寄生虫病杂志》等杂志审稿人 |
| **研究方向/主要研究内容** |
| **长期聚焦棘球蚴病（包虫病）的流行病学特征及生态学机制研究，研究内容涵盖病原-宿主互作、分子/空间/生态流行病学及生物信息学等交叉领域。在病原生物学方面，整合多组学数据构建棘球绦虫遗传数据库，开发分子溯源模型，系统解析棘球绦虫遗传多样性及分子传播特征。流行病学研究方面，融合多源数据构建多尺度分析框架与风险预测模型，揭示棘球蚴病流行驱动因素。针对野生动物疫源疫病，建立寄生虫病原筛查技术体系，重点发掘未知、潜在寄生虫物种，评估野生动物携带寄生虫的人兽共患风险。在寄生虫-宿主生态学研究中，构建以食物网为核心的寄生虫传播网络，揭示宿主种群动态与寄生虫传播相互作用关系。** |
| **科研/教学研究项目** |
| （1）国家自然科学基金委员会，青年科学基金项目，82404325，复合生态因子在泡型棘球蚴病野外时空传播中的交互作用研究，2025-01-01至2027-12-31，30万元，在研，主持。（2）上海市卫生健康委员会，卫生临床专项青年科研项目，20214Y0213，STRs在棘球蚴病分子溯源和分子传播网络构建中的应用研究，2022-01 至 2024-12，5万元，结题，主持。（3）国家卫生健康委员会包虫病防治研究重点实验室，开放课题，2023WZK1002，基于生态位模型的棘球蚴病流行因素及风险研究，2023-10至2025-10，10万元，在研，主持。（4）中华人民共和国科学技术部，国家重点研发计划，2021YFC2300800，重要威胁人类寄生虫感染致病机制和防空干预技术研究，2022-01 至 2024-12，1808万元，结题，参与。（5）上海市卫生健康委员会，上海市加强公共卫生体系建设三年行动计划（2023-2025 年）重点学科建设，GWV1-11.1-12 ，基于智能技术的媒介生物监测与控制适宜技术研究和应用，2023-07至2025-06，178.52万元，结题，参与。（6）国家自然科学基金委员会，地区科学基金项目，82260410，新疆带属绦虫潜在新种挖掘、宿主感染谱分析与生活史特点研究，2023-01-01至2026-12-31，34万元，结题，参与。 |
| **主要学术成果** |
| **期刊论文**（2020年以来的第一作者#或通讯作者\*文章，截止到2025年7月）1. **Wang X (王旭)#**, Kui Y#, Xue CZ, Wang Q, Zheng CJ, Zhao JS, Yang YM, Jiang XF, Gong-Sang QZ, Ma X, Feng Y, Wu XL, Chen S, Li FK, Yu WJ, Li BF, Liu BX, Wang Y, Wang LY, Yang SJ, Wang ZH, Hu W, Shen YJ, Zhang WB, Craig PS, Wu WP, Xiao N, Han S\*, Zhou XN\*, Li SZ\*, Cao JP\*. Past, present and future epidemiology of echinococcosis in China based on nationwide surveillance data 2004-2022. J Infect. 2025;90(3):106445.
2. **Wang X (王旭)#**, Xiao ZJ, Xue CZ, Wu WT, Yang JH, Yan C, Wang Y, Kui Y, Luo WB, Du X, Zan RN, Shang RJ, Li S, Na R, Han S\*, Li SZ\*. Clinical confirmation of an infection with *Echinococcus multilocularis* (Mongolian genotype): first case report of human alveolar echinococcosis in Inner Mongolia, China. Infect Dis Poverty. 2025;14(1):74.
3. **Wang X (王旭)#**, Xue C, Deng X, Chen Q, Li C, Liu B, Wang Y, Kui Y, Zuo Q, Yin J, Han S\*, Shen Y\*, Cao J\*. Seasonal population dynamics and dietary switching of Vulpes spp. amplify *Echinococcus* spp. transmission in the Eastern Tibetan plateau: implications for wildlife-mediated zoonotic risks. BMC Vet Res. 2025;21(1):475.
4. **Wang X (王旭)#**, Zuo Q, Xue C, Liu B, Kui Y, Deng X, Yang Y, Li M, Han S\*, Wang Z\*, Shen Y, Cao J. Niche Analysis of Spatial Distribution and Host Selection of Global *Echinococcus* Species - Worldwide, up to June 30, 2024. China CDC Wkly. 2025 Jun 27;7(26):889-894.
5. Zheng JX#, Sun XH, Wei X, Wang G, Yuan CQ, Weng XD, Zuo QQ, Liu JY, Mu ZQ, Mao TC, Ding YZ, Wang XM, **Wang X (王旭)\***, Wang ZH\*. Species Composition of a Small Mammal Community and Prevalence of *Echinococcus* spp. in the Alpine Pastoral Area of the Eastern Tibetan Plateau. Pathogens. 2024;13(7):558.
6. **Wang X (王旭)#**, Jiang Y, Wu W, He X, Wang Z, Guan Y, Xu N, Chen Q, Shen Y\*, Cao J\*. Cryptosporidiosis threat under climate change in China: prediction and validation of habitat suitability and outbreak risk for human-derived *Cryptosporidium* based on ecological niche models. Infect Dis Poverty. 2023; 12(1):35.
7. **Wang X (王旭)#**, Zhu A, Cai H, Liu B, Xie G, Jiang R, Zhang J, Xie N, Guan Y, Bergquist R, Wang Z, Li Y\*, Wu W\*. The pathology, phylogeny, and epidemiology of *Echinococcus ortleppi* (G5 genotype): a new case report of echinococcosis in China. Infect Dis Poverty. 2021; 10(1):130.
8. **Wang X (王旭)#**, Fu M, Wang Q, Li W, Danba Z, Han S, He X, Ba J, Luorong C, Jiangyang Q, Luorong Y, Dali, Li C, Shi D, Guan Y, Wu W\*, Xiao N\*. A knowledge survey on health education of echinococcosis among students - Ganzi Tibetan Autonomous Prefecture, Sichuan province, China, 2020. China CDC Wkly. 2022; 4(8):137-142.
9. Chen Q#, **Wang X (王旭)\***, Li C, Wu W, Zhang K, Deng X, Xie Y, Guan Y\*. Investigation of Parasitic Nematodes Detected in the Feces of Wild Carnivores in the Eastern Qinghai-Tibet Plateau, China. Pathogens. 2022; 11(12):1520.
10. He X#, **Wang X (王旭)#**, Fan G, Li F, Wu W, Wang Z, Fu M, Wei X, Ma S, Ma X\*. Metagenomic analysis of viromes in tissues of wild Qinghai vole from the eastern Tibetan Plateau. Sci Rep. 2022;12(1):17239.
11. **王旭#**, 候岩岩, 王莹, 王正寰, 薛垂召, 张尹, 刘白雪, 韩帅, 郑灿军, 伍卫平\*. 新疆新源县和四川石渠县啮齿动物及家畜棘球绦虫线粒体*cox1*基因遗传多态性分析. 中国寄生虫学与寄生虫病杂志. 2020;38(1):22-29.
12. **王旭#**, 左清秋#, 余晴\*, 宋成玺, 王正寰, 肖宁, 王元甲, 翁晓东, 韦旭, 周鸿让, 崔小玉. 青海省玉树市人群定居点周围小型啮齿类动物种群动态及棘球绦虫感染调查. 中国血吸虫病防治杂志. 2021;33(4):346-352.
13. **王旭#**, 沈玉娟, 曹建平\*. 我国隐孢子虫病流行现状与防控进展. 热带病与寄生虫学. 2022;20(3):136-48.
14. **王旭#**, 王莹, 刘白雪, 张凯歌, 邓雪莹, 沈玉娟, 王正寰, 曹建平, 韩帅\*. 棘球绦虫和棘球蚴病的简明认知历史. 中国寄生虫学与寄生虫病杂志. 2024;42(3):372-383.
15. **王旭#**, 尹建海, 刘华, 韩帅, 胡媛, 沈玉娟, 曹建平\*. 生态免疫学在寄生虫学和寄生虫病研究中的应用. 中国血吸虫病防治杂志. 2025-07-27, 网络首发.

**著作**（1）《*Echinococcus*: Control and Elimination of Echinococcosis with a Focus on China and Europe》. Cham: Springer, 参编, 2024.（2）《突发公共卫生事件预防和应对》. 北京: 人民卫生出版社, 参编, 2024.（3） 《National Institute of Parasitic Diseases, China: 70 Years and Beyond, Advances in Parasitology》. Amsterdam: Academic Press, 参编, 2020.（4）《全健康科技进展（III）》. 上海: 上海交通大学出版社, 编委, 2025.（5）《医学寄生虫图鉴（第二版）》. 北京: 人民卫生出版社, 编委, 待出版。（6）《社会感染防控导论》. 北京: 人民卫生出版社, 编委, 待出版.**专利**（1）**王旭**, 伍卫平, 薛垂召, 官亚宜, 曹建平. 一种用于无人机搭载的投药装置, 2023-05-12, ZL202223191867.9 （2）**王旭**, 韩帅, 刘白雪, 薛垂召, 曹建平. 一种采集水体中棘球绦虫虫卵的装置, 2025-01-10, ZL202420696482.8（3）**王旭**, 王立英, 杨诗杰, 蒉嫣, 韩帅, 曹建平. 一种棘球绦虫终末宿主粪样便携采样装置, 2025-01-24, ZL202420696131.7（4）**王旭**, 王莹, 韩帅, 刘白雪, 曹建平. 一种动物病变脏器组织便携取样装置, 2025-03-21, ZL202420696408.6（5）伍卫平, 官亚宣, 郑灿军, **王旭**, 薛垂召, 韩帅, 刘白雪, 魏思慧, 崔小玉, 蒉妍, 付梅花. 一种用于棘球绦虫终宿主粪样检测的装置, 2020-11-03, ZL202020522551.5 （6）伍卫平, 薛垂召, 王立英, 郑灿军, 韩帅, 王莹, 刘白雪, **王旭**, 蔡辉霞. 一种基于生物识别技术的犬登记和驱虫的管理系统, 2022-5-27, ZL201810319739.7  |
| **荣誉及奖项** |
| 2025-06，中国疾病预防控制中心优秀博士论文2024-10，中华预防医学会全球卫生分会全球卫生青年学术论坛优秀论文2023-11，上海市卫生健康系统“上海电气杯”微电影节优胜奖2021-08，第20届全国青年文明号集体成员2021-06，中国疾病预防控制中心优秀共产党员 2020-08，上海市卫生健康行业优秀团员2020-03，清华大学全球健康丝路学者2019-08，上海市卫生健康行业青年图片故事大赛银奖2019-04，上海市青年文明号示范集体成员2019-06，塞拉利昂国家政府公共卫生合作荣誉勋章 |

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| **Profile** | **C:\Users\Wang Xu\Documents\WeChat Files\wxid_8721197211812\FileStorage\Temp\659d06769e878096cf16d3a81c25d10.jpg** |
| **Name：Xu Wang****Gender：Male****Date of birth：October 1992****Degree：M.D.****Title：Associate Researcher****Email：wangxu@nipd.chinacdc.cn****Address：207 Ruijin Er Road,  Shanghai, China** |
| **Education** |
| ​​Aug 2022 to Jun 2025:​​**M.D.** Candidate in Immunology, Chinese Center for Disease Control and Prevention (China CDC), Beijing, China​​Sep 2014 to Jun 2017:​​**Master Degree** Candidate in Ecology, East China Normal University (ECNU), Shanghai, China​​Sep 2010 to Jul 2014:​​**Bachelor's Degree** in Bioengineering, Shanxi Normal University (SXNU), Linfen, Shanxi, China |
| **Appointments** |
| **​​Jul 2017 – Jun 2020​​****Research Assistant****National Center for Tropical Diseases Research (NTDR), National Institute of Parasitic Diseases (NIPD) at** Chinese Center for Disease Control and Prevention **(China CDC), Shanghai, China****​​Dec 2018 – Jun 2019​​****Technical Specialist****Fixed Biosafety Laboratory of China CDC Aid Project in Sierra Leone, Freetown, Sierra Leone****​​Jan 2020 – Dec 2020​​****Station Director****China CDC Echinococcosis Control Station in Ganzi Tibetan Autonomous Prefecture, Ganzi Prefecture, Sichuan, China****​​Jul 2020 – Jun 2024​​****Assistant Researcher****National Center for Tropical Diseases Research (NTDR), National Institute of Parasitic Diseases (NIPD) at** Chinese Center for Disease Control and Prevention **(China CDC),Shanghai, China****​​Jul 2024 – Present​​****Associate Researcher****National Center for Tropical Diseases Research (NTDR), National Institute of Parasitic Diseases (NIPD) at** Chinese Center for Disease Control and Prevention **(China CDC)****Shanghai, China** |
| **Academic Participation and Activities** |
| ​​**Young Editorial Board Member​​:***Disease Surveillance* (Official Journal of China CDC)​​**Peer Reviewer**​​ for internationally recognized journals:*PLOS Neglected Tropical Diseases**Science in One Health**Chinese Journal of Parasitology and Parasitic Diseases* |
| **Research Interest** |
| Long-term research focuses on the epidemiological characteristics and ecological mechanisms of echinococcosis (hydatid disease), encompassing interdisciplinary fields including pathogen-host interactions, molecular/spatial/ecological epidemiology, and bioinformatics. In pathogen biology, multi-omics data are integrated to establish genetic databases for *Echinococcus* spp. and develop molecular tracing models, systematically elucidating the genetic diversity and molecular transmission characteristics of *Echinococcus* tapeworms. In epidemiological studies, multi-source data are fused to construct multi-scale analytical frameworks and risk prediction models, revealing the driving factors of echinococcosis epidemics. For wildlife-origin pathogens, a screening technology system for parasitic pathogens is established, with a focus on discovering unknown and potential parasitic species and assessing the zoonotic risks associated with parasites carried by wildlife. In parasite-host ecology research, parasite transmission networks centered on food webs are constructed, uncovering the interaction between host population dynamics and parasite transmission dynamics.​ |
| **Projects** |
| ​​1. Young Scientists Fund, National Natural Science Foundation of China (NSFC). Study on the Interaction of Complex Ecological Factors in the Temporal and Spatial Transmission of Alveolar Echinococcosis in the Wild (82404325). 2025-01-01 to 2027-12-31, ¥300,000, ​​Ongoing​​, ​​Principal Investigator.​​2. Young Scholars Clinical Research Program, Shanghai Municipal Health Commission. Application of STRs in Molecular Tracing and Construction of Molecular Transmission Networks for Echinococcosis (20214Y0213​​,). 2022-01 to 2024-12, ¥50,000, ​​Completed, ​​Principal Investigator .​​3. Open Research Grant, Key Laboratory of Echinococcosis Control and Research, National Health Commission of the People's Republic of China. Research on Epidemic Factors and Risk of Echinococcosis Based on Niche Modeling (2023WZK1002). 2023-10 to 2025-10, ¥100,000, ​​Ongoing​​, ​​Principal Investigator​​.​​4. National Key Research and Development Program, Ministry of Science and Technology of the People's Republic of China. Research on Pathogenesis and Prevention/Control Intervention Technologies for Major Parasitic Infections Threatening Humans (2021YFC2300800​​). 2022-01 to 2024-12, ¥18,080,000, ​​Completed​​, ​​Participant​​.5. Key Discipline Development Project under the Three-Year Action Plan to Strengthen the Public Health System in Shanghai (2023-2025), Shanghai Municipal Health Commission. Research and Application of Intelligent Technology-Based Vector Surveillance and Control Strategies (GWV1-11.1-12​​). 2023-07 to 2025-06, ¥1,785,200, ​​Completed​​, ​​Participant​​.6. Regional Science Fund Project, National Natural Science Foundation of China (NSFC). Exploration of Potential New Species of Taeniid Tapeworms in Xinjiang, Host Infection Spectrum Analysis, and Study of Life History Characteristics (82260410​​). 2023-01-01 to 2026-12-31, ¥340,000, ​​Completed​​, ​​Participant​​. |
| **Publications** |
| 1. **Wang X (王旭)#**, Kui Y#, Xue CZ, Wang Q, Zheng CJ, Zhao JS, Yang YM, Jiang XF, Gong-Sang QZ, Ma X, Feng Y, Wu XL, Chen S, Li FK, Yu WJ, Li BF, Liu BX, Wang Y, Wang LY, Yang SJ, Wang ZH, Hu W, Shen YJ, Zhang WB, Craig PS, Wu WP, Xiao N, Han S\*, Zhou XN\*, Li SZ\*, Cao JP\*. Past, present and future epidemiology of echinococcosis in China based on nationwide surveillance data 2004-2022. J Infect. 2025;90(3):106445.
2. **Wang X (王旭)#**, Xiao ZJ, Xue CZ, Wu WT, Yang JH, Yan C, Wang Y, Kui Y, Luo WB, Du X, Zan RN, Shang RJ, Li S, Na R, Han S\*, Li SZ\*. Clinical confirmation of an infection with *Echinococcus multilocularis* (Mongolian genotype): first case report of human alveolar echinococcosis in Inner Mongolia, China. Infect Dis Poverty. 2025;14(1):74.
3. **Wang X (王旭)#**, Xue C, Deng X, Chen Q, Li C, Liu B, Wang Y, Kui Y, Zuo Q, Yin J, Han S\*, Shen Y\*, Cao J\*. Seasonal population dynamics and dietary switching of Vulpes spp. amplify *Echinococcus* spp. transmission in the Eastern Tibetan plateau: implications for wildlife-mediated zoonotic risks. BMC Vet Res. 2025;21(1):475.
4. **Wang X (王旭)#**, Zuo Q, Xue C, Liu B, Kui Y, Deng X, Yang Y, Li M, Han S\*, Wang Z\*, Shen Y, Cao J. Niche Analysis of Spatial Distribution and Host Selection of Global *Echinococcus* Species - Worldwide, up to June 30, 2024. China CDC Wkly. 2025 Jun 27;7(26):889-894.
5. Zheng JX#, Sun XH, Wei X, Wang G, Yuan CQ, Weng XD, Zuo QQ, Liu JY, Mu ZQ, Mao TC, Ding YZ, Wang XM, **Wang X (王旭)\***, Wang ZH\*. Species Composition of a Small Mammal Community and Prevalence of *Echinococcus* spp. in the Alpine Pastoral Area of the Eastern Tibetan Plateau. Pathogens. 2024;13(7):558.
6. **Wang X (王旭)#**, Jiang Y, Wu W, He X, Wang Z, Guan Y, Xu N, Chen Q, Shen Y\*, Cao J\*. Cryptosporidiosis threat under climate change in China: prediction and validation of habitat suitability and outbreak risk for human-derived *Cryptosporidium* based on ecological niche models. Infect Dis Poverty. 2023; 12(1):35.
7. **Wang X (王旭)#**, Zhu A, Cai H, Liu B, Xie G, Jiang R, Zhang J, Xie N, Guan Y, Bergquist R, Wang Z, Li Y\*, Wu W\*. The pathology, phylogeny, and epidemiology of *Echinococcus ortleppi* (G5 genotype): a new case report of echinococcosis in China. Infect Dis Poverty. 2021; 10(1):130.
8. **Wang X (王旭)#**, Fu M, Wang Q, Li W, Danba Z, Han S, He X, Ba J, Luorong C, Jiangyang Q, Luorong Y, Dali, Li C, Shi D, Guan Y, Wu W\*, Xiao N\*. A knowledge survey on health education of echinococcosis among students - Ganzi Tibetan Autonomous Prefecture, Sichuan province, China, 2020. China CDC Wkly. 2022; 4(8):137-142.
9. Chen Q#, **Wang X (王旭)\***, Li C, Wu W, Zhang K, Deng X, Xie Y, Guan Y\*. Investigation of Parasitic Nematodes Detected in the Feces of Wild Carnivores in the Eastern Qinghai-Tibet Plateau, China. Pathogens. 2022; 11(12):1520.
10. He X#, **Wang X (王旭)#**, Fan G, Li F, Wu W, Wang Z, Fu M, Wei X, Ma S, Ma X\*. Metagenomic analysis of viromes in tissues of wild Qinghai vole from the eastern Tibetan Plateau. Sci Rep. 2022;12(1):17239.
 |
| **Books** |
| 1. *Echinococcus: Control and Elimination of Echinococcosis with a Focus on China and Europe*. Cham: Springer, ​​Contributor​​, 2024.2. *Public Health Emergency Prevention and Response*. Beijing: People's Medical Publishing House (PMPH), ​​Contributor​​, 2024.3. *National Institute of Parasitic Diseases, China: 70 Years and Beyond, Advances in Parasitology*. Amsterdam: Academic Press, ​​Contributor​​, 2020.4. *One Health Science & Technology Advances (III)*. Shanghai: Shanghai Jiao Tong University Press, ​​Editorial Board Member​​, 2025.5. *Medical Parasitology Atlas (Second Edition)*. Beijing: People's Medical Publishing House (PMPH), ​​Editorial Board Member​​, Forthcoming.6. *Introduction to Social Infection Prevention and Control*. Beijing: People's Medical Publishing House (PMPH), ​​Editorial Board Member​​, Pending Publication. |
| **Patents** |
| 1. A Device for Airborne Drug Delivery Mounted on Unmanned Aerial Vehicles​​. Granted: May 12, 2023, Patent No.: ZL202223191867.9
2. ​​A Device for Collecting *Echinococcus* Eggs from Water Bodies​​. Granted: January 10, 2025, Patent No.: ZL202420696482.8
3. ​​A Portable Sampling Device for Fecal Samples from Definitive Hosts of *Echinococcus* spp.​​. Granted: January 24, 2025, Patent No.: ZL202420696131.7
4. ​​A Portable Sampling Device for Animal Pathological Organ/Tissue Specimens​​. Granted: March 21, 2025, Patent No.: ZL202420696408.6
5. ​​A Device for Detecting Fecal Samples from Definitive Hosts of *Echinococcus* spp.​​. Granted: November 3, 2020, Patent No.: ZL202020522551.5
6. ​​A Management System for Dog Registration and Deworming Based on Biometric Technology​​. Granted: May 27, 2022, Patent No.: ZL201810319739.7
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| **Honors and Awards** |
| **​​Jun 2025:​​ Outstanding Doctoral Dissertation, Chinese Center for Disease Control and Prevention** **Oct 2024:​​ Outstanding Paper, Global Health Youth Academic Forum, Global Health Branch, Chinese Preventive Medicine Association****​​Nov 2023:​​ Winner Award (Micro Film Festival), "Shanghai Electric Cup", Shanghai Municipal Health System****​​Aug 2021:​​ Team Member, 20th National "Youth Model Unit Award " Collective****​​Jun 2021:​​ Outstanding Communist Party Member, Chinese Center for Disease Control and Prevention****​​Aug 2020:​​ Outstanding Communist Youth League Member, Shanghai Municipal Health Industry****​​Mar 2020:​​ Silk Road Scholar in Global Health, Tsinghua University****​​Aug 2019:​​ Silver Award (Youth Photo Story Competition), Shanghai Municipal Health Industry****​​Apr 2019:​​ Team Member, Shanghai Municipal Model "Youth Model Unit Award" Collective****​​Jun 2019:​​ Honorary Medal for Public Health Cooperation, National Government of Sierra Leone** |