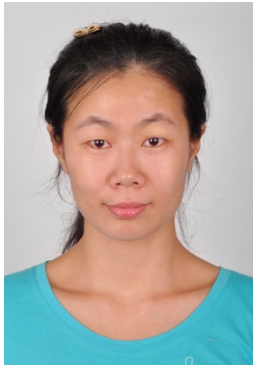


个人简介		
姓名：姜岩岩 性别：女 出生年月：1979-2-11 学位/学历：博士研究生 职称：副研究员 电子邮件：jiangyy@nipd.chinacdc.cn, jiangyy083@163.com 办公地址：上海市黄浦区瑞金二路 207 号 2-407 室 办公电话：021-64377008-2407		
教育经历		
1996.09 至 2001.07，山东潍坊医学院，临床医学，医学学士 2001.09 至 2004.07，天津医科大学，基础医学神经生理，理学硕士 2007.03 至 2010.07，同济大学，生物医学工程，医学博士		
工作经历		
2004-09 至 2006-08，复旦大学，中美联合实验室，工作 2006-09 至 2007-03，同济大学，传染病和疫苗研究所，工作 2010-07 至今，中国疾病预防控制中心寄生虫病预防控制所，国家卫计委寄生虫病原与媒介生物学重点实验室 2014-12 至 2017-06，第二军医大学，基础免疫学，在职博士后		
社会/学术任职和活动		
2019 年被聘为中华预防医学会生物资源管理与利用研究分会青年委员会成员 2020 年被聘为《中国寄生虫学与寄生虫病杂志》的青年编委 2020 年被聘为《疾病监测》杂志的青年编委		
研究方向/主要研究内容		
1 新发寄生虫病病原学、分子流行病学、群体遗传结构、基因分型、生物信息学分析、检测与监测关键技术研究 ● 从新发肠道原虫病的防控需求出发，建立自主知识产权的高通量、快速芯片检测新技术，首次报道江苏腹泻病人感染动物源安氏隐孢子虫，发现 A370 位点作为不同动物来源感染的分型依据；首次报道上海腹泻病人感染环孢子虫；获得江苏和上海“十二五”与“十三五”期间腹泻病人的新发肠道原虫谱，挖掘其具有地区和年龄的显著性差异，呈增加变化，提供公共卫生健康新的关注点，为安氏隐孢子虫在人间传播的新优势虫种共患跨种病传播中提供有力的证据。 2 重要寄生虫病感染与免疫研究		

● 从重点寄生虫防治的机制探讨出发，建立小鼠免疫细胞/人滋养细胞体外培养的技术平台和日本血吸虫为代表的蠕虫感染模型，从表观转录组的角度，参与完成病原体入侵宿主时 TET2 针对免疫应答的机制；从自噬的角度，参与完成 IL4 诱导 Th2 细胞转化，促进 B 细胞产生 IgE，诱导哮喘发生；从微生态角度，首次报道急性血吸虫病病人肠道细菌感染谱改变，识别其肠道菌群肠型的独特性改变，认为 TM7 细菌可能影响血吸虫病患者疾病进程的改变，为后续探讨日本血吸虫病的免疫病理认识提供新的视角。
科研/教学研究项目
1 啮齿目、灵长目生态圈病原体广域调查与全链条挖掘，国家重点研发“潜在威胁人类病原体发现与挖掘”，2021YFC2300900，2021-12 到 2024-11，187.5 万元，寄生虫分课题负责 2 日本血吸虫感染后肝脏微环境调控致耐受性 DC 功能的作用，第 57 批中国博士后科学基金面上基金（中国博士后科学基金委），2015M572739，2015-05-14 至 2017-11-04，5 万元，总负责 3 隐孢子虫的芯片研发，国家重点研发“畜禽重大疫病防控与高效安全养殖综合技术研发”，2017YFD0501300，2017-07-01 至 2021-06-30，25 万元，骨干参与 4 寄生虫病与病媒控制，上海市公共卫生体系建设三年行动计划重点学科，WV-10.1-XK13，2020-01-01 至 2022-06-30，主要参与 5 肉源性、水源性寄生虫病监测和风险评估关键技术研究及应用，公益性行业专项，201502021，2015-07-01 至 2018-06-30，主要参与 6 调节性树突状细胞负向调控日本血吸虫感染免疫应答的研究，国家自然科学基金青年基金，81201314，2013-01-01 至 2015-12-31，23 万元，总负责
主要学术成果
期刊论文 ➤ Jiang YY, Yuan ZY, Liu H, Yin JH, Qin Y, Jiang XF, Xu J, Cao JP, Shen YJ*. Intestinal Protozoan Infections in Patients with Diarrhea — Shanghai Municipality, Zhenjiang City, and Danyang City, China, 2011–2015 and 2019–2021, China CDC Weekly, 2022, 4(8): 143-147. ➤ Jiang Yanyan, Yuan Zhongying, Shen Yajuan, Rosa Bruce A., Martin John, Cao Shengkui, Zhou Yanjiao, Mitreva Makedonka*, Cao Jianping*. Alteration of the fecal microbiota in Chinese patients with <i>Schistosoma japonicum</i> infection, Parasite, 2021, 28(1): 1-10. ➤ Chidiebere E. UGWU#, Jiang Yanyan#, Wu Liang, Xu Yuxin, Yin Jianhai, Duan Liping, Chen Shen gxia, Liu Hua, Pan Wei, Quan Hong, Shen Yajuan*, Cao

- Jianping*. In vitro Screening of Ginkgolic Ac ids for Antiparasitic Activity against *Cryptosporidium andersoni*, Biomed Environ Sci, 2019, 32(4) : 300-303.
- **Jiang YY**, Yuan ZY, Zang GQ, Li D, Wang Y, Zhang Y, Liu H, Cao JP*, Shen YJ*. Cyclospora cayetanensis infections among diarrheal outpatients in Shanghai: a retrospective case study. Front Med. 2018 Feb,12(1):98-103.
 - Shen Q, Zhang Q, Shi Y, Shi Q, **Jiang Y**, Gu Y, Li Z, Li X, Zhao K, Wang C, Li N, Cao X. Tet2 promotes pathogen infection-induced myelopoiesis through mRNA oxidation. Nature, 2018, 554(7690):123-127.
 - Xia F, Deng C, **Jiang Y**, Qu Y, Deng J, Cai Z, Ding Y, Guo Z, Wang J. IL4 (interleukin 4) induces autophagy in B cells leading to exacerbated asthma. Autophagy, 2018;14(3):450-464.
 - Xu M, Jiang Z, Huang W, Yin J, Ou S, **Jiang Y**, Meng L, Cao S, Yu A, Cao J, Shen Y. Altered Gut Microbiota Composition in Subjects Infected With *Clonorchis sinensis*. Front Microbiol, 2018,9:2292.
 - Liu X, Wu Y, Yang F, Gong B, **Jiang Y**, Zhou K, Cao J, Zhang W, Liu A, Shen Y. Multilocus Sequence Typing of *Enterocytozoon bienersi* Isolates From Various Mammal and Bird Species and Assessment of Population Structure and Substructure. Front Microbiol, 2020,11:1406.
 - Xu N, Liu H, **Jiang Y**, Yin J, Yuan Z, Shen Y, Cao J. First report of *Cryptosporidium viatorum* and *Cryptosporidium occultus* in humans in China, and of the unique novel *C. viatorum* subtype XVaA3h. BMC Infect Dis, 2020, 20(1):16.
 - Cao S, Xu M, **Jiang Y**, Liu H, Yuan Z, Sun L, Cao J, Shen Y. Prevalence and Genetic Characterization of *Cryptosporidium*, *Giardia* and *Enterocytozoon* in Chickens From Ezhou, Hubei, China. Front Vet Sci, 2020, 7:30.
 - Wu Y, Gong B, Liu X, **Jiang Y**, Cao J, Yao L, Li H, Liu A, Shen Y. Identification of Uncommon *Cryptosporidium viatorum* (a Novel Subtype XVcA2G1c) and *Cryptosporidium andersoni* as Well as Common *Giardia duodenalis* Assemblages A and B in Humans in Myanmar. Front Cell Infect Microbiol. 2020,10:614053.
 - Xu J, Wang X, Jing H, Cao S, Zhang X, **Jiang Y**, Yin J, Cao J, Shen Y. Identification and genotyping of *Enterocytozoon bienersi* in wild Himalayan marmots (*Marmota himalayana*) and Alashan ground squirrels (*Spermophilus alashanicus*) in the Qinghai-Tibetan Plateau area (QTPA) of Gansu Province, China. Parasit Vectors, 2020, 22;13(1):367.
 - Cao SK, **Jiang YY**, Yuan ZY, Yin JH, Xu M, Xue JB, Tang LH, Shen YJ, Cao JP. Quantitative Microbial Risk Assessment of *Cryptosporidium* and *Giardia* in Public Drinking Water in China. Biomed Environ Sci, 2021, 34(6):493-498.
 - Xu N, Jiang Z, Liu H, **Jiang Y**, Wang Z, Zhou D, Shen Y, Cao J. Prevalence and genetic characteristics of *Blastocystis hominis* and *Cystoisospora belli* in HIV/AIDS patients in Guangxi Zhuang Autonomous Region, China. Sci Rep, 2021,11(1):15904.
 - Xu M, **Jiang Y**, Yin J, Cao S, Shen Y, Cao J. Risk Factors for *Clonorchis sinensis* Infection in Residents of Binyang, Guangxi: A Cross-Sectional and

Logistic Analysis Study. Front Public Health. 2021, 9:588325.

- Liu H, Wang B, Yin J, Yuan Z, **Jiang Y**, Zhang J, Cao J, Shen Y, Liu H. Investigation of giardiasis in captive animals in zoological gardens with strain typing of assemblages in China. Parasitology, 2021, 148(11):1360-1365.

著作

- 2020 年参与编译《曼氏热带病》
- 曹建平; 沈玉娟; 官亚宜; 张龙现; 冯耀宇; 尹建海; **姜岩岩**; 郑彬. 中华人民共和国卫生行业标准, 隐孢子虫病的诊断, WS/T 487-2016, 中华人民共和国国家卫生和计划生育委员会, 2016-5-20 (标准)

专利

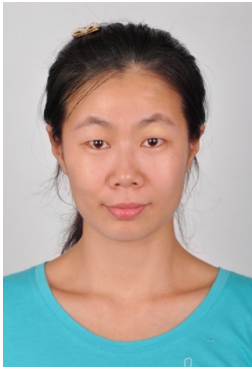
- **姜岩岩**; 曹建平; 沈玉娟; 袁忠英 ; 基于蜂巢芯片的高通量检测肠道原虫的试剂盒及检测方法, 2020 -04-10, 中国, 202010275854.6 (申请专利)
- **姜岩岩**; 沈玉娟; 曹建平; 袁忠英; 曹胜魁 ; 一种基于蜂巢芯片的检测棘球蚴不同虫种的试剂盒及检测方法, 2020-4-10, 中国, 202010276397.2 (申请专利)
- 沈玉娟; **姜岩岩**; 许洁; 曹建平; 应清界; 刘燕红; 顾赛艺 ; 一种用于实时荧光 RAA 检测环孢子虫 DNA 的引物探针组合物和试剂盒及其应用, 2021-1-15, 中国, CN202110053056.3 (申请专利)
- 沈玉娟; 曹建平; 刘华; 袁忠英; **姜岩岩**; 尹建海; 王燕娟. 多重 PCR 检测肠道新发原虫试剂盒及检测方法, ZL 201510093500.9, 2017.3.2, 第五发明人 (授权专利)
- 曹建平; U. UGWU. Chidiebere; 沈玉娟; **姜岩岩**; 段李平; 袁忠英. 银杏酸在抗隐孢子虫中的应用, ZL 201310539693.7, 2016.3.9, 第四发明人(授权专利)

荣誉及奖项

- **姜岩岩**(6/10); 我国重要新发肠道原虫病原和分子检测关键技术研究及应

用,上海市人民政府,科技进步,省部二等奖, 2020(曹建平; 沈玉娟; 刘爱芹; 尹建海; 张唯哲; 姜岩岩; 杨凤坤; 刘华; 袁忠英; 凌虹)

- 姜岩岩(7/10); 我国重要新发肠道原虫病原和分子检测关键技术研究及应用, 中华医学会, 中华医学 科技奖二等奖, 2020(曹建平; 沈玉娟; 刘爱芹; 尹建海; 刘华; 张唯哲; 姜岩岩; 凌虹; 曹胜魁; 袁忠英)
- 姜岩岩(7/12); 我国重要新发肠道原虫病原和分子检测关键技术研究及应用, 中国医疗保健国际交流 促进会, 华夏医学科技奖三等奖, 2019(曹建平; 沈玉娟; 刘爱芹; 尹建海; 刘华; 张唯哲; 姜岩岩; 凌 虹; 曹胜魁; 袁忠英; 杨凤坤; 孙磊)
- 姜岩岩(4/8); 我国隐孢子虫核酸检测和基因分型技术的研究及应用, 中华预防医学会科学技术奖三等奖, 2015 (曹建平; 沈玉娟; 尹建海; 姜岩岩; 刘爱芹; 袁忠英; 刘华; 汤林华)

Profile	
Name: Jiang Yanyan Gender: Female Date of birth: Feb, 1979 Degree: PhD Title: Associated researcher Email: jiangyy@nipd.chinacdc.cn, jiangyy083@163.com Address: 207 Ruijin Er Road, Shanghai, China Office Tel: 021-64377008-2407	
Education	➤ 2007-03 to 2010-07 Institute for Infectious Diseases and Vaccine Development, Tongji University School of Medicine, Shanghai, China, Major: Ph.D.in Biomedical Engineering; Supervisor: Prof. Weiqing Pan ➤ 2001-09 to 2004-07 Department of Physiology, Tianjin Medical University, Tianjin, China, Major: Master in Neurophysiology; Supervisor: Dr. Shumei Xu ➤ 1996-09 to 2001-07 WeiFang Medical College, Shandong, China, Major: M.D. in Clinical Medicine
Appointments	
➤ 2004-09 to 2006-08, Fudan University, Sino American Joint Laboratory, Molecular detection of leukemia patients ➤ 2006-09 to 2007-03, Institute of infectious diseases and vaccines, Tongji University, Evaluate the clinical effect of vaccine ➤ 2010-07 to now, Institute for parasitic disease control and prevention, China Center for Disease Control and prevention, Key Laboratory of parasitic pathogens and vector biology ➤ 2014-12 to 2017-05, the Second Military Medical University, Immunology, Postdoctor Supervisor: Prof. Xuetao Cao	Academic Participation and Activities
	➤ As a member of the Youth Committee of the biological resources management and utilization research branch of the Chinese Preventive Medicine Association in 2019

- As the young editorial board member of the Chinese Journal of Parasitology and parasitic diseases in 2020
- As the youth editorial board member of the Journal of disease surveillance in 2020

Research Interest

1. Research on Key Technologies of etiology, molecular epidemiology, population genetic structure, genotyping, bioinformatics analysis, detection and monitoring of emerging parasitic diseases

Based on the prevention and control needs of new intestinal protozoan diseases, a new high-throughput and rapid chip detection technology with independent intellectual property rights was established. It was reported for the first time that Jiangsu diarrhea patients were infected with *Cryptosporidium anserini* of animal origin, and A³⁷⁰ locus was found as the basis for typing infections from different animal sources; It was first reported that diarrhea patients in Shanghai were infected with *cyclosporidium*; Obtain the new intestinal protozoa spectrum of diarrhea patients in Jiangsu and Shanghai during the "12th Five Year Plan" and "13th five year plan", excavate the significant differences between regions and ages, and show increasing changes, provide a new focus of public health, and provide strong evidence for the spread of *Cryptosporidium andersoni* in the new dominant species of CO infection and cross species disease spread among humans.

2. Study on infection and immunity of important parasitic diseases

Based on studying the mechanism of key parasite control, establish a technical platform for in vitro culture of mouse immune cells / human trophoblasts and a worm infection model represented by *Schistosoma japonicum*, and participate in the mechanism of tet2's immune response when pathogens invade the host from the perspective of apparent transcriptome; From the perspective of autophagy, participate in the transformation of Th2 cells induced by IL4, promote the production of IgE by B cells, and induce asthma; From the perspective of microecology, it is the first time to report the changes of intestinal bacterial infection spectrum in patients with acute schistosomiasis, identify the unique changes of intestinal flora and intestinal type, and believe that TM7 bacteria may affect the changes of disease process in patients with schistosomiasis, providing a new perspective for the follow-up study of immunopathological recognition of schistosomiasis.

Projects

1. Wide area investigation and full chain mining of rodent and primate ecosystem pathogens. National key research and development ‘discovery and mining of potential threats to human pathogens. 2021YFC200900, 2021-12 to 2024-11. **Principal Investigator in the field of parasite.**
2. The role of liver microenvironment in regulating tolerogenic DC function after *Schistosoma japonicum* infection, the 57th general fund of China Postdoctoral Science Foundation (China Postdoctoral Science Foundation), 2015M572739, 2015-05-14 to 2017-11-04. **Principal Investigator.**
3. *Cryptosporidium* spp. chip research and development. National key research and development ‘research and development of comprehensive technology for prevention and control of major epidemic diseases of livestock and poultry and efficient and safe breeding’, 2017YFD05013002017-07-01 to 2021-06-30. **Major Participants.**
4. Parasitic diseases and vector control. Key discipline of the three-year action plan for the construction of Shanghai public health system, wv-10.1-xk132020-01-01 to 2022-06-30. **Major participants.**
5. Research and application of key technologies for monitoring and risk assessment of meat and water-borne parasitic diseases, special projects for public welfare industries, 2015020212015-07-01 to 2018-06-30. **Major participants.**
6. Research on negative regulation of immune response to *Schistosoma japonicum* infection by regulatory dendritic cells, youth fund of National Natural Science Foundation of China, 81201314, 2013-01-01 to 2015-12-31. **Principal Investigator.**

Publications

- **Jiang YY**, Yuan ZY, Liu H, Yin JH, Qin Y, Jiang XF, Xu J, Cao JP, Shen YJ*. Intestinal Protozoan Infections in Patients with Diarrhea — Shanghai Municipality, Zhenjiang City, and Danyang City, China, 2011–2015 and 2019–2021, China CDC Weekly, 2022, 4(8): 143-147.
- **Jiang Yanyan**, Yuan Zhongying, Shen Yujuan, Rosa Bruce A., Martin John, Cao Shengkui, Zhou Yanjiao, Mitreva Makedonka*, Cao Jianping*. Alteration of the

- fecal microbiota in Chinese patients with *Schistosoma japonicum* infection, Parasite, 2021, 28(1): 1-10.
- Chidiebere E. UGWU[#], **Jiang Yanyan**[#], Wu Liang, Xu Yuxin, Yin Jianhai, Duan Liping, Chen Shen gxia, Liu Hua, Pan Wei, Quan Hong, Shen Yajuan*, Cao Jianping*. In vitro Screening of Ginkgolic Ac ids for Antiparasitic Activity against *Cryptosporidium andersoni*, Biomed Environ Sci, 2019, 32(4) : 300-303.
 - **Jiang YY**, Yuan ZY, Zang GQ, Li D, Wang Y, Zhang Y, Liu H, Cao JP*, Shen YJ*. Cyclospora cayetanensis infections among diarrheal outpatients in Shanghai: a retrospective case study.Front Med. 2018 Feb,12(1):98-103.
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 - Xia F, Deng C, **Jiang Y**, Qu Y, Deng J, Cai Z, Ding Y, Guo Z, Wang J. IL4 (interleukin 4) induces autophagy in B cells leading to exacerbated asthma. Autophagy, 2018;14(3):450-464.
 - Xu M, Jiang Z, Huang W, Yin J, Ou S, **Jiang Y**, Meng L, Cao S, Yu A, Cao J, Shen Y. Altered Gut Microbiota Composition in Subjects Infected With *Clonorchis sinensis*. Front Microbiol, 2018,9:2292.
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 - Xu N, Liu H, **Jiang Y**, Yin J, Yuan Z, Shen Y, Cao J. First report of *Cryptosporidium viatorum* and *Cryptosporidium occultus* in humans in China, and of the unique novel *C. viatorum* subtype XVaA3h. BMC Infect Dis, 2020, 20(1):16.
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 - Wu Y, Gong B, Liu X, **Jiang Y**, Cao J, Yao L, Li H, Liu A, Shen Y. Identification of Uncommon *Cryptosporidium viatorum* (a Novel Subtype XVcA2G1c) and *Cryptosporidium andersoni* as Well as Common *Giardia duodenalis* Assemblages A and B in Humans in Myanmar. Front Cell Infect Microbiol. 2020,10:614053.
 - Xu J, Wang X, Jing H, Cao S, Zhang X, **Jiang Y**, Yin J, Cao J, Shen Y. Identification and genotyping of *Enterocytozoon bienersi* in wild Himalayan marmots (*Marmota himalayana*) and Alashan ground squirrels (*Spermophilus alashanicus*) in the Qinghai-Tibetan Plateau area (QTPA) of Gansu Province, China. Parasit Vectors,2020, 22;13(1):367.
 - Cao SK, **Jiang YY**, Yuan ZY, Yin JH, Xu M, Xue JB, Tang LH, Shen YJ, Cao JP. Quantitative Microbial Risk Assessment of *Cryptosporidium* and *Giardia* in Public Drinking Water in China. Biomed Environ Sci, 2021, 34(6):493-498.
 - Xu N, Jiang Z, Liu H, **Jiang Y**, Wang Z, Zhou D, Shen Y, Cao J. Prevalence and genetic characteristics of *Blastocystis hominis* and *Cystoisospora belli* in

HIV/AIDS patients in Guangxi Zhuang Autonomous Region, China. Sci Rep, 2021,11(1):15904. ➤ Xu M, Jiang Y, Yin J, Cao S, Shen Y, Cao J. Risk Factors for <i>Clonorchis sinensis</i> Infection in Residents of Binyang, Guangxi: A Cross-Sectional and Logistic Analysis Study. Front Public Health. 2021, 9:588325. ➤ Liu H, Wang B, Yin J, Yuan Z, Jiang Y, Zhang J, Cao J, Shen Y, Liu H. Investigation of giardiasis in captive animals in zoological gardens with strain typing of assemblages in China. Parasitology,2021, 148(11):1360-1365.
Books
➤ Participated in the compilation of tropical Mann disease in 2020 ➤ Caojianping; Shenyujuan; Guanyayi; Zhang Longxian; Feng yaoyu; Yin Jianhai; Jiang Yanyan; Zheng bin. Diagnosis of cryptosporidiosis, WS/T 487-2016. National Health and Family Planning Commission of the people's Republic of China, 2016-5-20 (standard)
Patents
➤ Jiang Yanyan; Caojianping; Shenyujuan; Yuan Zhongying; Kit and detection method for high-throughput detection of intestinal protozoa based on honeycomb chip, 2020-04-10, China, 202010275854.6 (patent application) ➤ Jiang Yanyan; Shenyujuan; Caojianping; Yuan Zhongying; Cao Shengkui; A kit and detection method for detecting different species of Echinococcus based on honeycomb chip, 2020-4-10, China, 202010276397.2 (patent application) ➤ Shenyujuan; Jiang Yanyan; Xu Jie; Caojianping; Clear the boundary; Liu Yanhong; Gu Saiyi; A primer probe composition and kit for real-time fluorescent RAA detection of cyclosporidium DN A and its application, 2021-1-15, China, cn202110053056.3 (patent application) ➤ Shenyujuan; Caojianping; Liu Hua; Yuan Zhongying; Jiang Yanyan; Yin Jianhai; Wang Yanjuan Multiplex PCR kit and detection method for detecting intestinal protozoa, ZL 201510093500.92017.3.2, the fifth inventor (authorized patent) ➤ Caojianping; U. UGWU. Chidiebere; Shenyujuan; Jiang Yanyan; Duanliping; Yuan Zhongying Application of ginkgolic acid in anti Cryptosporidium, ZL 201310539693.72016.3.9, the fourth inventor (authorized patent)
Honors and Awards

- **Jiang Yanyan (6/10).** Research and application of key technologies for pathogenic and molecular detection of important new intestinal protozoa in China, Shanghai Municipal People's government, scientific and technological progress, second prize of provincial and ministerial awards, 2020 (caojianping; shenyujuan; Liu Aiqin; Yin Jianhai; Zhang weizhe; Jiang Yanyan; Yang Fengkun; Liu Hua; Yuan Zhongying; Ling Hong)
- **Jiang Yanyan (7/10).** Research and application of key technologies for pathogenic and molecular detection of important new intestinal protozoa in China, Chinese Medical Association, second prize of Chinese medical science and technology award, 2020 (caojianping; shenyujuan; Liu Aiqin; Yin Jianhai; Liu Hua; Zhang weizhe; Jiang Yanyan; Ling Hong; Cao Shengkui; Yuan Zhongying)
- **Jiang Yanyan (7/12).** Research and application of key technologies for pathogenic and molecular detection of important new intestinal protozoa in China, third prize of Huaxia Medical Science and technology award, 2019 (caojianping; Shen Yujuan; Liu Aiqin; Yin Jianhai; Liu Hua; Zhang weizhe; Jiang Yanyan; Ling Hong; Cao Shengkui; Yuan Zhongying; Yang Fengkun; sun Lei)
- **Jiang Yanyan (4/8).** Research and application of Cryptosporidium nucleic acid detection and genotyping technology in China, third prize of science and technology award of Chinese Preventive Medicine Association, 2015 (caojianping; shenyujuan; yinjianhai; Jiang Yanyan; Liu Aiqin; Yuan Zhongying; Liu Hua; Tang Linhua)