

个人简介

姓名: 沈玉娟
性别: 女
出生年月: 1969.10
学位/学历: 医学硕士/大学本科
职称: 研究员
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教育经历

1988.09-1992.07 上海交通大学农业与生物学院, 兽医专业, 学士学位
2004.09-2007.12 苏州大学, 病原生物学, 硕士学位

工作经历

1992.7-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,
硕士研究生导师
2014.9-2015.8 美国克瑞顿大学, 访问学者
2015.4-2021.3 中国疾病预防控制中心寄生虫病预防控制所寄生虫病原与媒介生物学重点
实验室副主任
2021.3-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)药物室
副主任(主持工作)

社会/学术任职和活动

中国女医师协会公共卫生专业委员会委员
中华预防医学会旅行卫生分会委员会委员
中国微生物学会人兽共患病分会委员兼病原学专业委员会原虫学科组副组长
上海市免疫学会理事
上海市免疫学会感染与免疫专委会委员
上海市实验动物生物安全委员会委员
《中国人兽共患病学报》编委

研究方向/主要研究内容

1. 寄生虫感染免疫及包虫病免疫致病机制
2. 新发肠道原虫病原学、分子流行病学、高通量检测技术和溯源
3. 新病原研究

科研/教学研究项目

作为课题负责人主持国家级等项目 10 余项，部分项目如下：

1. 原头节外泌体 miR-4989 促细粒棘球蚴寄生部位血管生成作用及其机制研究，国家自然科学基金面上项目，82072307，2021.1-2023.12，55 万元
2. 原头节外泌体 lncRNAs 对细粒棘球蚴感染小鼠 MDSCs 免疫下调作用及其机制研究，国家自然科学基金面上项目，81772224，2018.1-2021.12，55 万元
3. 细粒棘球蚴感染小鼠 Mo-MDSC 源免疫抑制相关分子的研究，国家自然科学基金面上项目，81371842，2014.1-2017.12，70 万元
4. 日本血吸虫雌雄合抱相关分子的研究，国家自然科学基金面上项，30771880，2008.1-2010.12，20 万元
5. 自然疫源性传染病症候群寄生虫病原谱构成及流行规律研究，国家科技重大专项（子课题），2018ZX10713001-004，2018.1-2021.6，428.39 万元
6. 我国介水传播隐孢子虫病病源溯源及对策研究，国家公益性卫生行业科研专项，200802012，2008.11-2011.12，89 万元
7. 饮水安全检测、监测、风险评估和预警预测关键技术研究，国家公益性卫生行业科研专项（子课题），201302004，2013.6-2015.6，112 万元
8. 新发寄生虫病检测、监测与基因溯源适宜技术研究，重点学科一寄生虫病与病媒控制（子任务），上海市公共卫生三年行动计划，GWV-10.1-XK13，2020.12-2022.6，30 万元
9. 新发肠道原虫病原检测及风险评估，上海市公共卫生优秀学科带头人培养项目，GWDTR201214，2012.1-2013.12，30 万元
10. 重要寄生虫病原标本显微图像计算机实时自动鉴定系统的研究传染病病原体诊断和组合检测技术研究，国家科技重大专项（子课题），2008ZX10004-002，2008.10-2011.6，132 万元

主要学术成果

期刊论文

近 5 年以第一和通讯作者发表论文 40 篇，其中 SCI 收录 28 篇。*为通讯作者。

1. 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

2. Liu H, Wang B, Yin J, Yuan Z, Jiang Y, Zhang J, Cao J, **Shen Y***, Liu Hui*. Investigation of giardiasis in captive animals in zoological gardens with strain typing of assemblages in China. *Parasitology*, 2021, 1-6.
3. Cao S, Jiang Y, Yuan Z, Yin J, Xu M, Xue J, Tang L, **Shen Y***, Cao J*. Quantitative microbial risk assessment of *Cryptosporidium* and *Giardia* in public drinking water in China. *Biomed Environ Sci*, 2021,34(6):492-497
4. Xu M, Jiang Y, Yin J, Cao S, Cao J*, **Shen Y***. Risk factors for *Clonorchis sinensis* infection in residents of Binyang, Guangxi: a cross-sectional and logistic analysis study. *Front Public Health*, 2021,9:588325
5. 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
6. Zhao W, XuJ, XiaoM, CaoJ, JiangY, HuangH, Zheng B*, **ShenY***. Prevalence and Characterization of *Cryptosporidium* Species and Genotypes in Four Farmed Deer Species in the Northeast of China. *Front Vet Sci*,2020,7:430
7. Zheng M, Wang L, Jiang B, Ren X, **Shen Y***, Liu H*. A case report human thelaziasis from Zunyi, China. *The Southeast Asian Trop Med Public Health*, 2020, 51(3):385-386
8. Xu J, Wang X, Jing H, Cao S, Zhang X, Jiang Y, Yin J, Cao J*, **Shen Y***. Identification and genotyping of *Enterocytozoon bieneusi* 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*, 2020,13:367
9. Zhang X, Gong W, Cao S, Yin J, Zhang J, Cao J*, **Shen Y***. Comprehensive analysis of non-coding RNA profiles of exosome-like vesicles from the protoscoleces and hydatid cyst fluid of *Echinococcus granulosus*. *Front Cell Infect Microbiol*, 2020,10:316
10. Liu X#, Wu Y#, Yang F, Gong B, Jiang Y,Zhou K,Cao J, Zhang W, LiuA* , **Shen Y***. Multilocus sequence typing of *Enterocytozoon bieneusi* isolates from various mammal and bird species and assessment of population structure and substructure. *Front Microbiol*, 2020,11:1406.

11. Cao S, Gong W, Zhang X, Xu M, Wang Y, Xu Y, Cao J, **Shen Y***, Chen J*. Arginase promotes immune evasion of *Echinococcus granulosus* in mice. *Parasit Vectors*, 2020,13:49
12. **Shen Y[#]**, Gong B[#], Liu X, Wu Y, Yang F, Xu J, Zhang X, Cao J*, and Liu A*. First identification and genotyping of *Enterocytozoon bieneusi* in humans in Myanmar. *BMC Microbiol.* 2020,20:10
13. 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*, 2020,20:16
14. 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
15. Zhao W, Zhou H, Ma T, Cao J, Lu G*, **Shen Y***. PCR-Based Detection of *Cryptosporidium* spp. and *Enterocytozoon bieneusi* in Farm-Raised and Free-Ranging Geese (*Anser anser f. domestica*) from Hainan Province of China: Natural Infection Rate and the Species or Genotype Distribution. *Front Cell Infect Microbiol*, 2019, 9:416
16. Gong B[#], Yang Y[#], Liu X, Cao J, Xu M, Xu N, Yang F, Wu F, Li B, Liu A*, **Shen Y***. First survey of *Enterocytozoon bieneusi* and dominant genotype Peru6 among ethnic minority groups in south western China's Yunnan Province and assessment of risk factors. *PLoS Negl Trop Dis*, 2019,13(5): e0007356
17. Gong B, Liu X, Wu Y, Xu N, Xu M, Yang F, Tong L, Zhou K, Cao J, Liu A*, **Shen Y***. Prevalence and subtype distribution of *Blastocystis* in ethnic minority groups on both sides of the China–Myanmar border, and assessment of risk factors. *Parasite*, 2019,26: 46
18. Chidiebere EU[#], Jiang Y[#], Wu L, Xu Y, Yin J, Duan L, Chen S, Liu H, Pan W, Quan H, **Shen Y***, Cao J*. In vitro screening of Ginkgolic Acids for antiparasitic activity against *Cryptosporidium andersoni*. *Biomed Environ Sci*, 2019;32(4): 300-303
19. Liu H[#], Xu N[#], Yin J, Yuan Z, **Shen Y***, Cao J*. Prevalence and multilocus genotyping of potentially zoonotic *Giardia duodenalis* in pigs in Shanghai, China. *Parasitology*, 2019, 1-7
20. Yin J, Liu C, Yu A, Yao J, **Shen Y***, Cao J*. Pro-angiogenic activity of

monocytic-type myeloid-derived suppressor cells from Balb/C mice infected with *Echinococcus granulosus* and the regulatory role of miRNAs. *Cell Physiol Biochem*, 2018,51:1207-1220


21. 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
22. Pan W, Xu H, Hao W, Sun F, Qin Y, Hao S, Liu H, Cao J, **Shen Y***, Zheng K*. The excretory-secretory products of *Echinococcus granulosus* protoscoleces stimulated IL-10 production in B cells via TLR-2 signaling. *BMC Immunol*, 2018,19:29
23. Yu A, Wang Y, Yin J, Zhang J, Cao S, Cao J*, **Shen Y***. Microarray analysis of long non-coding RNA expression profiles in monocytic myeloid-derived suppressor cells in *Echinococcus granulosus*-infected mice. *Parasit Vectors*, 2018,11(1):327
24. Yang Z, Yang F, Wang J, Cao J, Zhao W, Gong B, Yan J, Zhang W, Liu A*, **Shen Y***. Multilocus sequence typing and population genetic structure of *Cryptosporidium cuniculus* in rabbits in Heilongjiang Province, China. *Infect Genet Evol*, 2018,64:249-253
25. Jiang Y, Yuan Z, Zang G, Li D, Wang Y, Zhang Y, Liu H, Cao J, **Shen Y***. *Cyclospora cayentanensis* infections among diarrheal outpatients in Shanghai: a retrospective case study. *Front Med*, 2018,12(1):98-103
26. Liu H, Jiang Z, Yuan Z, Yin J, Wang Z, Yu B, Zhou D, **Shen Y***, Cao J*. Infection by and genotype characteristics of *Enterocytozoon bieneusi* in HIV/AIDS patients from Guangxi Zhuang autonomous region, China. *BMC Infect Dis*, 2017, 17:684
27. Zheng L, Hu Y, Wang Y, Huang X, Xu Y, **Shen Y***, Cao J*. Recruitment of neutrophils mediated by V γ 2 $\gamma\delta$ T cells deteriorate liver fibrosis induced by *Schistosoma japonicum* infection in C57BL/6 mice. *Infect Immun*, 2017, 85(8): e01020-16
28. Wang Y, Zhou H, **Shen Y***, Wang Y, Wu W, Liu H, Yuan Z, Xu Y, Hu Y, Cao J*. Impairment of dendritic cell function and induction of CD4⁺CD25⁺Foxp3⁺ T cells by excretory-secretory products: a potential mechanism of immune evasion adopted by *Echinococcus granulosus*. *BMC Immunol*, 2015,11:119

专利

1. 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, 2017.2
2. 沈玉娟, 陈盛霞, 金红, 李峰, 潘雨青, 孙启艳, 吴亮, 曹建平. 基于图像的寄生虫虫卵形状识别方法, ZL 201110022426.3, 2012.10 已转化
3. 尹建海, 曹建平, 刘丛珊, 张皓冰, 沈玉娟. 熊果酸在制备抗包虫药物中的应用, ZL 2016 1 0517861.6, 2019.4
4. 曹建平, Ugwu Chidiebere Emmanuel, 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
5. 曹建平, 蔡辉霞, 沈玉娟, 韩秀敏, 胡媛, 王虎, 卢潍媛, 徐徐信, 官亚宜. 诊断细粒棘球蚴病的重组抗原蛋白、其制备方法和用途, ZL 201010284913.2, 2012.8

荣誉及奖项

1. 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, 上海市科技进步奖二等奖 (2019)、中华医学科技奖二等奖 (2019)、华夏医学科技奖三等奖 (2019), 排名第 2
2. 我国隐孢子虫核酸检测和基因分型技术的研究及应用, 中华预防医学科技奖三等奖 (2015), 排名第 2
3. 2017-2018 年度上海市卫生健康系统三八红旗集体 (团队负责人)

<p>Profile</p>	
<p>Name: Yujuan Shen Gender: Female Date of birth: 19/10/1969 Degree: Master Title: Professor Email: shenyj@nipd.chinacdc.cn Address: 207 Ruijin Er Road, Shanghai, China Office Tel: 021-64723472</p>	
<p>Education</p>	
<p>9/1988-7/1992, Shanghai Jiaotong University School of Agricultural and Biological, Veterinary, Bachelor 9/2004-12/2007, Soochow University, Pathogen Biology, Master</p>	
<p>Appointments</p>	
<p>7/1992-present National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention(Chinese Center for Tropical Diseases Research), Professor, postgraduate tutor 9/2014-8/2015 Creighton University, USA, Visting Scholar 4/2015-3/2021 Key Laboratory of Parasite and Vector Biology, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention, Vice director 3/2021-present Dept. of Pharmacology, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention(Chinese Center for Tropical Diseases Research), Vice director</p>	
<p>Academic Participation and Activities</p>	
<p>Member of Public Health Branch of China Medical Women's Association Member of Travel Health Branch of Chinese Preventive Medical Association Member of Zoonosis Branch of Chinese Society for Microbiology Member of Shanghai Immunology Society Member of Infection and Immunology Branch of Shanghai Immunology Society Member of Biosafety of Shanghai laboratory animal Society Editorial Board Member of Chinese Journal of Zoonoses</p>	
<p>Research Interest</p>	
<p>1. Immunity and pathogenic mechanism of echinococcosis</p>	

2. Emerging intestinal protozoa pathogen, molecular epidemiology, high-throughput detection techniques, source track, and risk assessment
3. Novel pathogen

Projects

1. 1/2021-12/2023, Study on the role and mechanism of exosome-derived miR-4989 from *Echinococcus granulosus* protoscoleces in promoting angiogenesis at the parasitic sites, 82072307, National Natural Science Foundation
2. 1/2018-12/2021, Study on the mechanism of immune down-regulation on MDSCs in infected mice of lncRNAs from *Echinococcus granulosus* protoscolices-derived exosomes, 81772224, National Natural Science Foundation
3. 1/2014-12/2017, Study on the molecules associated with immunosuppression in Mo-MDSC derived from mice infected by *Echinococcus granulosus*, 81371842, National Natural Science Foundation
4. 1/2008-12/2010, Study on the molecules of male-female worm pairing of *Schistosoma japonicum*, 30771880, National Natural Science Foundation
5. 1/2018-12/2021, Study on the parasitic pathogen spectrum composition and regularity of epidemic of natural focus infectious diseases, 2018ZX10713001-004, National Science and Technology Major Program of China (sub subject)
6. 11/2008-12/2011, Study on strategy and source track of waterborne cryptosporidiosis in China, 200802012, Chinese Special Program for Scientific Research of Public Health
7. 6/2013-6/2015, Study on the key technologies of detection, surveillance, risk assessment, and forecasting and early warning on the safety of drinking water, 201302004, Chinese Special Program for Scientific Research of Public Health (sub task)
8. 1/2012-12/2013, Study on risk assessment and pathogen detection of the emerging intestinal protozoa, GWDTR201214, Shanghai Public Health Outstanding Academic Leader
9. 10/2008-6/2011, Real-time computer automatic identification system for microscopic images of key parasite, 2008ZX10004-002, National Science and Technology Major Program of China (sub subject)
10. 12/2020-6/2022, Study on appropriate techniques for detection, surveillance and source trace of emerging parasitic diseases, Key subject—Parasitic diseases and vector control (sub subject), The Fifth Round of Three-Year Public Health Action Plan of Shanghai, GWV-10.1-XK13, 2020.12-2022.6

Publications

1. 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
2. Liu H, Wang B, Yin J, Yuan Z, Jiang Y, Zhang J, Cao J, **Shen Y***, Liu Hui*. Investigation of giardiasis in captive animals in zoological gardens with strain typing of assemblages in China. *Parasitology*, 2021, 1-6.
 3. Cao S, Jiang Y, Yuan Z, Yin J, Xu M, Xue J, Tang L, **Shen Y***, Cao J*. Quantitative microbial risk assessment of *Cryptosporidium* and *Giardia* in public drinking water in China. *Biomed Environ Sci*, 2021,34(6):492-497
 4. Xu M, Jiang Y, Yin J, Cao S, Cao J*, **Shen Y***. Risk factors for *Clonorchis sinensis* infection in residents of Binyang, Guangxi: a cross-sectional and logistic analysis study. *Front Public Health*, 2021,9:588325
 5. 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
 6. Zhao W, XuJ, XiaoM, CaoJ, JiangY, HuangH, Zheng B*, **ShenY***. Prevalence and Characterization of *Cryptosporidium* Species and Genotypes in Four Farmed Deer Species in the Northeast of China. *Front Vet Sci*,2020,7:430
 7. Zheng M, Wang L, Jiang B, Ren X, **Shen Y***, Liu H*. A case report human thelaziasis from Zunyi, China. *The Southeast Asian Trop Med Public Health*, 2020, 51(3):385-386
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 10. Liu X#, Wu Y#, Yang F, Gong B, Jiang Y,Zhou K,Cao J, Zhang W, LiuA* , **Shen**

- Y***. Multilocus sequence typing of *Enterocytozoon bieneusi* isolates from various mammal and bird species and assessment of population structure and substructure. *Front Microbiol*, 2020,11:1406.
11. Cao S, Gong W, Zhang X, Xu M, Wang Y, Xu Y, Cao J, **Shen Y***, Chen J*. Arginase promotes immune evasion of *Echinococcus granulosus* in mice. *Parasit Vectors*, 2020,13:49
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 17. Gong B, Liu X, Wu Y, Xu N, Xu M, Yang F, Tong L, Zhou K, Cao J, Liu A*, **Shen Y***. Prevalence and subtype distribution of *Blastocystis* in ethnic minority groups on both sides of the China–Myanmar border, and assessment of risk factors. *Parasite*, 2019,26: 46
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 19. Liu H[#], Xu N[#], Yin J, Yuan Z, **Shen Y***, Cao J*. Prevalence and multilocus

- genotyping of potentially zoonotic *Giardia duodenalis* in pigs in Shanghai, China. *Parasitology*, 2019, 1-7
20. Yin J, Liu C, Yu A, Yao J, **Shen Y***, Cao J*. Pro-angiogenic activity of monocytic-type myeloid-derived suppressor cells from Balb/C mice infected with *Echinococcus granulosus* and the regulatory role of miRNAs. *Cell Physiol Biochem*, 2018,51:1207-1220
 21. 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
 22. Pan W, Xu H, Hao W, Sun F, Qin Y, Hao S, Liu H, Cao J, **Shen Y***, Zheng K*. The excretory-secretory products of *Echinococcus granulosus* protoscoleces stimulated IL-10 production in B cells via TLR-2 signaling. *BMC Immunol*, 2018,19:29
 23. Yu A, Wang Y, Yin J, Zhang J, Cao S, Cao J*, **Shen Y***. Microarray analysis of long non-coding RNA expression profiles in monocytic myeloid-derived suppressor cells in *Echinococcus granulosus*-infected mice. *Parasit Vectors*, 2018,11(1):327
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Patents

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2. Yujuan Shen, Shengxia Chen, Hong Jin, Feng Li, Yuqing Pan, Qiyun Sun, Liang Wu, Jiangping Cao. Identification method for parasite egg via image. ZL 201110022426.3, 10/2012 (transformed)
3. Jianhai Yin, Jianping Cao, Congshan Liu, Haobing Zhang, Yujuan Shen. Application of ursolic acid in preparing anti-hydatid drugs. ZL 2016 1 0517861.6, 4/2019
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5. Jianping Cao, Huixia Cai, Yujuan Shen, Xiumin Han, Yuan Hu, Hu Wang, Weiyuan Lu, Yuxin Xu, Yayi Guan. Recombinant antigen for diagnosis of *Echinococcus granulosus*, which application and preparation method. ZL 201010284913.2, 8/2012

Honors and Awards

1. Application and research on pathogen and molecular identification of key emerging intestinal protozoa in China. Shanghai Science and Technology Progress Award, the second prize, 2020; Chinese Medical Science and Technology Award, the second prize, 2020; Huaxia Medical Science and Technology Award, the third prize, 2019
2. Application and research on nucleic acid detection and molecular identification of *Cryptosporidium* in China. Chinese Preventive Medical Science and Technology Award, the third prize, 2015
3. Shanghai health system, three, eight red flag group, 2017-2018(PI)