|  |  |
| --- | --- |
| **个人简介** | 中国疾控中心寄生虫病所-曹建平.jpg |
| 姓名：         曹建平  性别:  男  出生年月：  1964年10月  学位/学历：博士研究生/博士  职称：         （二级） 研究员  电子邮件： caojpcdc@163.com  办公地址：上海市黄浦区瑞金二路207号 |
| **教育经历** | |
| 1982年9月至1987年7月，南京医学院，临床医疗专业，大学本科，学士学位；  1989年9月至1992年7月，南京医学院，基础医学专业，硕士研究生，硕士学位；  1995年9月至1998年7月，中国预防医学科学院，病原生物学，博士研究生，博士学位。 | |
| **工作经历** | |
| 1987年8月至1999年12月 江苏大学医学院工作，助教、讲师、副教授，教研室主任；  2000年1月至今 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）工作，研究员，博士生导师，免疫研究室副主任、重点实验室主任、所长助理、副所长、党委书记、首席专家。2019年获聘上海交通大学医学院博士生导师。 | |
| **社会/学术任职和活动** | |
| 任中华医学科技奖第二届和第三届评审委员会委员、上海科技发展重点领域技术预见专家、上海市寄生虫学会理事长、中华医学会热带病与寄生虫学分会副主任委员、中国微生物学会人兽共患病病原学专业委员会副主任委员等，《中国寄生虫学与寄生虫病杂志》主编，《疾病监测》副主编。 | |
| **研究方向/主要研究内容** | |
| 1.寄生虫与宿主相互作用机制；  2.寄生虫感染免疫及疫苗研制；  3.新发寄生虫病病原学、分子流行病学、致病机制与跨种传播、监测与风险评估关键技术研究。 | |
| **科研/教学研究项目** | |
| 作为负责人先后承担科研课题26项，其中国家级课题16项,包括国家“863”计划（3项）、国家科技重大专项（5项）、国家科技攻关计划、国家自然科学基金（5项）和国家卫生行业科研专项等。  1. 日本血吸虫虫卵外泌体源microRNA-1促进肝脏纤维化的作用及其机制研究，No.81971969，2020-2023，国家自然科学基金面上项目；  2. Vγ2γδT细胞促日本血吸虫感染小鼠肝纤维化作用机制研究，No.81772225，2018-2021，国家自然科学基金面上项目；  3. 日本血吸虫感染晚期小鼠脾脏淋巴滤泡再形成及机制研究，No.81371841，2014-2017，国家自然科学基金面上项目；  4. 日本血吸虫致宿主脾脏淋巴滤泡破坏相关虫源分子的研究，No.30872212，2009-2011，国家自然科学基金面上项目；  5. 日本血吸虫免疫逃避机制相关分子的研究，No.30371262，2004-2006，国家自然科学基金面上项目；  6. 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，201502021，2016-2018，国家卫生行业科研专项；  7. 我国未来病原体战略研究（寄生虫分课题），L1522033，2015-2017，中国工程院与国家自然基金委中长期发展战略研究；  8. 日本血吸虫病基因工程多价疫苗的研究，2006AA02Z444，2006-2010，国家“863”计划；  9. 日本血吸虫基因工程疫苗的研究，2001AA215151，2001-2003；2004AA215240，2004-2005，国家“863”计划；  10. 日本血吸虫病基因工程多价疫苗和DNA疫苗的研究，2004AA2Z3520，2004-2005，国家科技重大专项；  11. 隐孢子虫病快速检测方法及虫株鉴别的研究，2003BA712A03-06，2003-2005，国家科技攻关计划；  12. 野生动物与媒介携带的病原微生物种群、分布特征及其发生规律研究（寄生虫课题），2016YFC1201900，2016-2019，国家重点研发计划；  13. 隐孢子虫病的诊断，20131601，2013-2015，国家卫生行业标准；  14. 自然疫源性传染病病原谱流行规律及变异研究（寄生虫子课题），2012ZX10004-201-004，2012-2015，国家传染病重大专项；  15. 特殊传染病诊断试剂企业研发/产品评价用参考品的研制（寄生虫子课题），2013ZX10004-805，2012-2015，国家科技重大专项；  16. 自然疫源性传染病病原谱流行规律及变异研究（寄生虫子课题），2009ZX10004-201-004，2009-2011，国家传染病重大专项；  17. 寄生虫病与病媒控制，No.GWV-10.1-XK13，2020-2022，上海市公共卫生体系建设三年行动计划（2020-2022）重点学科项目；  18. 重点学科-热带病学，15GWZK0101，2016-2019，上海市公共卫生体系建设三年行动计划重点学科项目；  19. 日本血吸虫病基因工程疫苗临床前研究，064319026，2007-2009，上海市生物医药重点项目；  20. 抗日本血吸虫雌雄虫合抱基因工程疫苗的研究，03DZ19231，2004-2006，上海市科技攻关重大计划。 | |
| **主要学术成果** | |
| **期刊论文**  发表学术论文200余篇，其中SCI论文100余篇。近5年作为通讯作者（**\***）的部分论文：   1. Liang L, Shen Y, Hu Y, Liu H, **Cao J\***. [cGAS exacerbates *Schistosoma japonicum* infection in a STING-type I IFN-dependent and independent manner.](https://pubmed.ncbi.nlm.nih.gov/35108342/) PLoS Pathog. 2022;18(2):e1010233. 2. Khan H, Ahmed H\*, Afzal MS, Awan UA, Khurram M, Simsek S, **Cao J\***. [Detection of anti-*Echinococcus granulosus* antibodies in humans: An update from Pakistan.](https://pubmed.ncbi.nlm.nih.gov/35055977/) Pathogens. 2021;11(1):29. 3. Wang Y, Gong W, Zhou H, Hu Y, Wang L, Shen Y, Yu G\*, **Cao J\***. [A novel miRNA from egg-derived exosomes of *Schistosoma japonicum* promotes liver fibrosis in murine schistosomiasis.](https://pubmed.ncbi.nlm.nih.gov/35572578/) Front Immunol. 2022;13:860807. 4. Numan M, Naz S, Gilani R, Minhas A, Ahmed H\*, **Cao J\***. [Evaluation of household preparedness and risk factors for cutaneous leishmaniasis (CL) using the community assessment for public health emergency response (CASPER) method in Pakistan.](https://pubmed.ncbi.nlm.nih.gov/35564462/)  Int J Environ Res Public Health. 2022;19(9):5068. 5. Kesik HK, Celik F, Kilinc SG, Simsek S\*, Ahmed H, Shen Y, **Cao J\***. [Genetic diversity and haplotype analysis of cattle hydatid cyst isolates using mitochondrial markers in Turkey.](https://pubmed.ncbi.nlm.nih.gov/35631040/) Pathogens. 2022;11(5):519. 6. Shoukat T, Awan UA, Mahmood T, Afzal MS, Wasif S, Ahmed H\*, **Cao J\***. [Epidemiology of toxoplasmosis among the Pakistani population: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/35745528/) Pathogens. 2022;11(6):675. 7. Rizwan M, Khan MR, Afzal MS, Manahil H, Yasmeen S, Jabbar M, Irum S, Simsek S, Wasif S, Mahmood T, Ahmed H\*, **Cao J\***. Prevalence of fascioliasis in livestock and humans in Pakistan: A systematic review and meta-analysis. Trop Med Infect Dis. 2022;7: 126 8. Zhang J, Qiu J, Zhou W, **Cao J**, Hu X, Mi W, Su B, He B, Qiu J, Shen L. [Neuropilin-1 mediates lung tissue-specific control of ILC2 function in type 2 immunity.](https://pubmed.ncbi.nlm.nih.gov/35075279/) Nat Immunol. 2022;23(2):237-250. 9. Sun H, Li J , Wang L, Yin K, Xu C, Liu G, Xiao T, Huang B, Wei Q, Gong M\*, **Cao J\***. Comparative proteomics analysis for elucidating the interaction between host cells and *Toxoplasma gondii*. Front Cell Infect Microbiol. 2021;11:643001. 10. Yan H, Feng J, Yin JH, Huang F, Kong XL, Lin KM, Zhang T, Feng XY, Zhou SS, **Cao JP\***, Xia ZG\*. [High frequency m-mutations in pfdhfr and pfdhps of *Plasmodium falciparum* in response to sulfadoxine-pyrimethamine: a cross-sectional survey in returning Chinese migrants from Africa.](https://pubmed.ncbi.nlm.nih.gov/34568082/) Front Cell Infect Microbiol. 2021;11:673194. 11. Li T, Liu H, Jiang N, Wang Y, Wang Y, Zhang J, Shen Y\*, **Cao J\***. [Comparative proteomics reveals *Cryptosporidium parvum* manipulation of the host cell molecular expression and immune response.](https://pubmed.ncbi.nlm.nih.gov/34818332/) PLoS Negl Trop Dis. 2021;15(11):e0009949. 12. Zhang Y, Wu Y, Liu H, Gong W, Hu Y, Shen Y, Cao J\*. [Granulocytic myeloid-derived suppressor cells inhibit T follicular helper cells during experimental *Schistosoma japonicum* infection.](https://pubmed.ncbi.nlm.nih.gov/34565440/) Parasit Vectors. 2021;14(1):497. 13. Jiang Y, Yuan Z, Shen Y, Rosa BA, Martin J, Cao S, Zhou Y, Mitreva M\*, **Cao J\***. [Alteration of the fecal microbiota in Chinese patients with *Schistosoma japonicum* infection.](https://pubmed.ncbi.nlm.nih.gov/33416489/) Parasite. 2021;28:1. 14. 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.](https://pubmed.ncbi.nlm.nih.gov/34354101/) Sci Rep. 2021;11(1):15904. 15. Liu L, Xie F, Yang A, **Cao J\***, Zhong B\*, Li W, Yang W, Wang Q, Zhao X, Yuan D. [Epidemiological analysis of cystic echinococcosis and alveolar echinococcosis in an extremely high prevalence region: Population-based survey and host animal monitoring in Shiqu County, China.](https://pubmed.ncbi.nlm.nih.gov/34048788/) Acta Trop. 2021;221:105982. 16. Sun H, Li J , Wang L, Yin K, Xu C, Liu G, Xiao T, Huang B, Wei Q, Gong M\*, **Cao J\***. Comparative Proteomics Analysis for Elucidating the Interaction Between Host Cells and *Toxoplasma gondii*. Front Cell Infect Microbiol. 2021;11:643001. 17. Zheng L, Wang L, Hu Y, Yi J, Wan L, Shen Y, Liu S, Zhou X\*, **Cao J\*.** Higher frequency of circulating Vδ1 γδg cells in patients with advanced schistosomiasis. Parasite Immunol. 2021;00:e12871. 18. 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. 19. 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. 20. 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. 21. Khan A, Ahmed H\*, Simsek S, Shahzad K, Celik F, Afzal MS, Khan MR, Liu H, Shen Y, **Cao J\***. Haplotype comparisons of *Echinococcus granulosus* sensu lato via mitochondrial gene sequences (co1, cytb, nadh1) among Pakistan and its neighbouring countries. Parasitology. 2021;148(9):1019-1029. 22. Khan H, Ahmed H\*, Afzal MS, Awan UA, Khurram M, Simsek S, **Cao J\***. Detection of Anti-*Echinococcus granulosus* Antibodies in Humans: An Update from Pakistan. Pathogens 2022,11,29. 23. Khan A, Ahmed H\*, Amjad S, Afzal MS, Haider W, Simsek S, Khawaja MR, Khan DH, Naz S, Durrance-Bagale A, Shabbir RMK, Arfeen RZU, Ali S, **Cao J\***. Community based assessment of behavior and awareness of risk factors of cystic echinococcosis in major cities of Pakistan: a one health perspective. Front Public Health. 2021;9:648900. 24. Muhammad A, Bashir R, Mahmood M, Afzal MS, Simsek S, Awan UA, Khan MR, Ahmed H\*, **Cao J**\*. Epidemiology of ectoparasites (ticks, lice, and mites) in the livestock of Pakistan: a review. Front Vet Sci. 2021;8:780738. 25. Maqsood T, Shahzad K, Naz S, Simsek S, Afzal MS, Ali S, Ahmed H\*, **Cao J\***. A cross-sectional study on the association between risk factors of toxoplasmosis and One Health knowledge in Pakistan. Front Vet Sci. 2021;8:751130. 26. Abbasi A, Shahzad K, Shabbir RMK, Afzal MS, Zahid H, Zahid T, Ahmed H\*, **Cao J\***. Demographic attributes of knowledge, attitude, practices, and One Health perspective regarding diarrhea in Pakistan. Front. Public Health. 2021;9:731272. 27. Hu Y, Wang X, Wei Y, Liu H, Zhang J, Shen Y, **Cao J\***. Functional inhibition of natural killer cells in a BALB/c mouse model of liver fibrosis induced by *Schistosoma japonicum* infection. Front Cell Infect Microbiol. 2020;10:598987. 28. 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. 29. 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(1):367. 30. Sun L, Gong W, Shen Y, Liang L, Zhang X, Li T, Chen TT, Hu Y\*, **Cao J**\*. IL-17A-producing γδ T cells promote liver pathology in acute murine schistosomiasis. Parasit Vectors. 2020;13(1):334. 31. Khan A, Ahmed H\*, Simsek S, Liu H, Yin J, Wang Y, Shen Y, **Cao J**\*. Molecular characterization of human *Echinococcus* isolates and the first report of *E.  canadensis* (G6/G7) and *E. multilocularis* from the Punjab Province of Pakistan  using sequence analysis. BMC Infect Dis. 2020;20:262. 32. Khan A, Ahmed H\*, Simsek S, Afzal MS, **Cao J**\*. Spread of cystic echinococcosis in Pakistan due to stray dogs and livestock slaughtering habits: research priorities and public health importance. Front Public Health. 2020;7:412. 33. Liu A\*, Gong B, Liu X, Shen Y, Wu Y, Zhang W, **Cao J**\*. A retrospective epidemiological   analysis of human *Cryptosporidium* infection in China during the past three  decades (1987-2018). PLoS Negl Trop Dis. 2020;14(3):e0008146. 34. Shen Y, Gong B, Liu X, Wu Y, Yang F, Xu J, Zhang X, **Cao J**\*, Liu A\*. First identification and genotyping of *Enterocytozoon bieneusi* in humans in Myanmar. BMC Microbiol. 2020;20(1):10. 35. 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. 36. Li XH, Vance GM, Cartwright J, **Cao JP**\*, Wilson RA\*, Castro-Borges W. Mapping the epitopes of *Schistosoma japonicum* esophageal gland proteins for incorporation into vaccine constructs. PLoS One. 2020;15(2):e0229542. 37. 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. 38. Wu L, Xi C, Liu Y, Jiang X, Chen S\*, **Cao J**\*. *Toxoplasma gondii* Rhoptry Protein 16 (ROP16) modifies apoptosis in human 293T cells. J Nanosci Nanotechnol. 2020;20(1):24-30. 39. Chen TT, Peng S, Wang Y, Hu Y, Shen Y, Xu Y, Yin J, Liu C, **Cao J**\*. Improvement of mitochondrial activity and fibrosis by resveratrol treatment   in mice with *Schistosoma japonicum* infection. Biomolecules. 2019;9:658. 40. Yin K\*, Zhao G, Xu C, Qiu X, Wen B, Sun H, Liu G, Liu Y, Zhao Q, Wei Q, Huang B, Yan G, **Cao J**\*. Prediction of *Toxoplasma gondii* virulence factor ROP18 competitive inhibitors by virtual screening. Parasit Vectors.2019;12:98. 41. Wei F, Gong W, Wang J, Yang Y, Liu J, Wang Y, **Cao J\***. Role of the lipoxin A4 receptor in the development of neutrophil extracellular traps in *Leishmania infantum* infection. Parasites & Vectors. 2019;12:275. 42. Ugwu CE#, Jiang YY#, Wu L Xu YX, Yin JH, Duan LP, Chen SX, Liu H, Pan W, Quan H, Shen YJ\*, **Cao JP**\*. In vitro screening of ginkgolic acids for antiparasitic activity against *Cryptosporidium andersoni*. Biomed Environ Sci. 2019; 32(4): 143-147. 43. 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;146(9):1199-1205. 44. Gong W, Huang F, Sun L, Yu A, Zhang X, Xu Y, Shen Y, **Cao J**\*. Toll-like receptor-2 regulates macrophage polarization induced by excretory-secretory antigens from *Schistosoma japonicum* eggs and promotes liver pathology in murine schistosomiasis. PLoS Negl Trop Dis. 2018;12(12):e0007000. 45. Yin JH, Liu CH, Yu AP, Yao JQ, Shen YJ\*, **Cao JP**\*. 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. 46. 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 compositionin subjects infected with *Clonorchis sinensis*. Front Microbiol. 2018;9:2292. 47. 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. 48. Jiang Y, Yuan Z, Zang G, Li D, Wang Y, Zhang Y, Liu H, **Cao J**\*, Shen Y\*. *Cyclospora cayetanensis* infections among diarrheal outpatients in Shanghai: a   retrospective case study. Front Med. 2018;12(1):98-103. 49. Yin J, Liu C, Shen Y, Zhang H, **Cao J**\*. Efficacy of ursolic acid against *Echinococcus granulosus* in vitro and in a murine infection model. Parasit Vectors. 2018;11(1):58. 50. Yin J, Shen Y, Yu A, Liu C, Yao J, Gong W, **Cao J**\*. The proangiogenic role of polymorphonuclear myeloid-derived suppressor cells in mice infected with *Echinococcus granulosus*.  BioScience Trends. 2018; 12(3):338-341. 51. 37.  Hu Y, Sun L, Yuan Z, Xu Y, **Cao J**\*. High throughput data analyses of the immune characteristics of *Microtus fortis* infected with *Schistosoma japonicum*. Sci Rep.2017;7(1):11311. 52. Zheng L, Hu Y, Wang Y, Huang X, Xu Y, Shen Y\*, **Cao J**\*. Recruitment of neutrophils mediated by Vγ2 γδ T Cells deteriorates liver fibrosis induced by *Schistosoma japonicum* infection in C57BL/6 mice. Infect Immun. 2017;85(8):e01020-16. 53. Pan W, Hao WT, Shen YJ, Li XY, Wang YJ, Sun FF, Yin JH, Zhang J, Tang RX, **Cao JP**\*, Zheng KY\*. The excretory-secretory products of *Echinococcus granulosus* protoscoleces directly regulate the differentiation of B10, B17 and Th17 cells. Parasit Vectors, 2017;10(1) :384. 54. Zhang W, Ren G, Zhao W, Yang Z, Shen Y, Sun Y, Liu A\*, **Cao J**\*. Genotyping of *Enterocytozoon bieneusi* and subtyping of *Blastocystis* in cancer patients: relationship to diarrhea and assessment of zoonotic transmission. Front Microbiol.2017;8:1835. 55. Liu H, Shen Y, Liu A, Yin J, Yuan Z, Jiang Y, Pan W, Zhang Y, Zhao W, **Cao J**\*.  Occurrence and multilocus genotyping of *Giardia duodenalis* in pets and zoo animals in Shanghai, China.  J Infect Dev Ctries. 2017; 11(6):479-486. 56. 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. 57. Huang  YL, Huang DN, Geng YJ, Fang SS, Yang F, Wu CL, Zhang HL, Wang M, Zhang R,  Wang X, Wu S, **Cao JP**\*, Zhang RL\*. An integrated control strategy takes *Clonorchis sinensis* under control in an endemic area in south China.  Vector-Borne Zoonotic Dis. 2017;17(12):791-798. 58. Liu Z, Yin L, Li Y, Yuan F, Zhang X, Ma J, Liu H, Wang Y, Zheng K\*, **Cao J**\*. Intranasal immunization with recombinant *Toxoplasma gondii* actin depolymerizing factor confers protective efficacy against toxoplasmosis in mice. BMC Immunol. 2016;17(1):37. 59. Zhang Y, Wang Y\*, Jiang Y, Pan W, Liu H, Yin J, Shen Y, **Cao J**\*. T follicular helper cells in patients with acute schistosomiasis. Parasit Vectors. 2016;9(1):321. 60. Zheng Y\*, Guo X, He W, Shao Z, Zhang X, Yang J, Shen Y, Luo X, **Cao J**\*. Effects of *Echinococcus multilocularis* miR-71 mimics on murine macrophage RAW264.7 cells. Int Immunopharmacol. 2016;34:259-262. 61. Liu Z, Yuan F, Yang Y, Yin L, Liu Y, Wang Y, Zheng K\*, **Cao J**\*. Partial protective immunity against toxoplasmosis in mice elicited by recombinant *Toxoplasma gondii* malate dehydrogenase. Vaccine. 2016;34(7):989–994. 62. Wu L, Wang X, Li Y, Liu Y, Su D, Fu T, Guo F, Gu L, Jiang X, Chen S\*, **Cao J**\*. *Toxoplasma gondii* ROP18: potential to manipulate host cell mitochondrial apoptosis. Parasitol Res. 2016;115(6):2415-2422. 63. Yang Z, Zhao W, Shen Y, Zhang W, Shi Y, Ren G, Yang D, Ling H, Yang F, Liu A\*, **Cao J**\*. Subtyping of *Cryptosporidium cuniculus* and genotyping of *Enterocytozoon bieneusi* in rabbits in two farms in Heilongjiang Province, China. Parasite. 2016;23,52. 64. Han S, Tang Q, Lu X, Chen R, Li Y, Shu J, Zhang X\*, **Cao J**\*. Dysregulation of hepatic microRNA expression profiles with *Clonorchis sinensis* infection. BMC Infect Dis.2016;16(1):724.     **著作**  1.《临床微生物学手册》（第12版）共同主译，中华医学电子音像出版社，北京，2020  2.《临床微生物学手册》（第11版）共同主译，中华医学电子音像出版社，北京，2017  3.《曼氏热带病》（第23版），副主译，上海科学技术出版社，上海，2020  4.《腹泻症候群病原学监测与检测技术》，副主编，中山大学出版社，广州，2016  5.《现代寄生虫病学》（第2版），副主编，人民军医出版社，北京，2015    **专利**  获授权国家发明专利10件，1件已转化。部分专利有：  1.  王莹，**曹建平**，张璟，沈玉娟，伍卫平. 一段来源于细粒棘球绦虫的游离DNA序列及其应用.申请号:202010559041.X  2. 沈玉娟，张小凡，**曹建平**，曹胜魁，张璟. 细粒棘球绦虫原头节源和囊液源外泌体非编码RNA表达谱分析方法及非编码RNA序列.申请号:202010591112.4  3. 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.申请号:202010276397.2  4. 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  5.  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  6. 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  7.  **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  8.  **曹建平**，蔡辉霞，沈玉娟，韩秀敏，胡媛，王虎，卢潍媛，徐馀信，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.国家抗震救灾医药卫生先进个人（2008）  2.国家卫生计生有突出贡献中青年专家（2017）  3.全国血防卫士（2018）  4.上海市总工会职工创新工作室（2021）  5.中华医学科技奖二等奖（2019，第一完成人）  6.上海市科技进步奖二等奖（2020，第一完成人）  7.华夏医学科技奖三等奖（2019，第一完成人）  8.中华预防医学科技奖三等奖（2015，第一完成人） | |

|  |  |
| --- | --- |
| **Profile** | 中国疾控中心寄生虫病所-曹建平.jpg |
| **Name：Cao Jianping**  **Gender：male**  **Date of birth：Oct 14, 1964**  **Degree：  Doctor**  **Title： Professor, Doctoral Supervisor**  **Email： caojpcdc@163.com**  **Address：207 Rui Jin Er Road,  Shanghai, China** |
| **Education** | |
| 1982.9-1987.7   Nanjing Medical University, bachelor, clinical medicine  1989.9-1992.7   Nanjing Medical University, master, basic medicine  1995.9-1998.7  Chinese Academy of Preventive Medicine, Ph.D.,Pathogen Biology | |
| **Appointments** | |
| Aug 1987   to Dec 1999 Zhenjiang   Medical College  Jan 2000   to present National   Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention (Chinese Center for Tropical Diseases Research) | |
| **Academic Participation and Activities** | |
| Member, Chinese Medical Science and Technology Award Committee;  President, Shanghai Association for Parasitology;  Deputy President, Branch of Tropical Diseases and Parasitology, Chinese Medical Association;  Deputy President, Committee on Aetiology of Zoonoses, Chinese Society for Microbiology;  Member, Shanghai Immunology Association;  Expert, Technology Foresight in Key areas of Science and Technology Development, Shanghai. | |
| **Research Interest** | |
| 1. Mechanisms involved in the interaction between parasite and the host  2. Infection and immunity, Development of vaccine  3. Molecular epidemiology, pathogenic mechanism, cross-species transmission, key techniques for surveillance and risk assessment of emerging infectious parasitic diseases | |
| **Projects** | |
| 1. Study on the role and its mechanism of microRNA-1 of exosome from *Schistosoma japonicum* egg in promoting liver fibrosis. National Natural Science Foundation of China, No.81971969, 2020-2023,  2. Study on the mechanism of Vγ2γδT cells derived from mice infected with *Schistosoma japonicum* facilicate the liver fibrosis. National Natural Science Foundation of China, No.81772225, 2018-2021  3. Study on the mechanism of re-generated spleen lymphoid follicles in mice during advanced schistosomiasis japonica. National Natural Science Foundation of China, No.81371841, 2014-2017  4. Study on the destruction of the spleen’s lymphoid follicles in mice infected with *Schistosoma japonicum* by the schistosome-derived molecules. National Natural Science Foundation of China, No.30872212，2009-2011  5. Study on the molecular mechanism of immune evasion in mice   infected with *Schistosoma japonicum*. National Natural Science Foundation of China, No.30371262，2004-2006  6. Study and application of the key technologies for monitoring and risk assessment of meat-borne and water-borne parasitic diseases. Chinese Special Program for Scientific Research of Public Health, 201502021,2016-2018  7. Study on genetic engineering polyvalent vaccine against schistosomiasis japonica. National High Technology Research and Development  Programme of China (863 Programme), 2006AA02Z444, 2006-2010  8. Development of genetic engineering vaccine against *Schistosoma japonicum*. National High Technology Research and Development Programme of China (863 Programme), 2001AA215151, 2001-2003; 2004AA215240, 2004-2005  9. Development of geneticengineering polyvalent vaccine and DNA vaccine against schistosomiasis japonica, National Science and Technology Major Program of China, 2004AA2Z3520, 2004-2005  10. Study on rapid detection and identification techniques of *Cryptosporidium*. National Programs for Science and Technology Development, 2003BA712A03-06, 2003-2005  11. Study on prevalence and variation of the pathogen spectrum of parasitic diseases. National Science and Technology Major Program of China, 2012ZX10004-201-004, 2012-2015  12. Development of reference materials for special infectious disease diagnostic reagent enterprise R & D/product evaluation. National Science and Technology Major Program of China, 2013ZX10004-805, 2012-2015  13. Study on prevalence and variation of the pathogen spectrum of parasitic diseases. National Science and Technology Major Program of China, 2009ZX10004-201-004, 2009-2011  14. Control of parasitic diseases and vectors. Key Discipline Project of the Three-year Action Plan (2020-2022) for the Construction of Shanghai Public Health System, No.GWV-10.1-XK13, 2020-2022  15. Tropical Medicine. Key Discipline Project of the Three-year Action Plan for the Construction of Shanghai Public Health System, 15GWZK0101，2016-2019  17. Preclinical study of genetic engineering vaccine against schistosomiasis japonica. Key Biomedical Project Shanghai, 064319026, 2007-2009  16. Development of genetic engineering vaccine against pairing of female and male of *Schistosoma japonicum*. Shanghai Science and Technology Major Program, 03DZ19231, 2004-2006 | |
| **Publications** | |
| More than 200 papers published. Some of the papers published in the past 5 years are as follows (\*Correspondence):   1. Liang L, Shen Y, Hu Y, Liu H, **Cao J\***. [cGAS exacerbates *Schistosoma japonicum* infection in a STING-type I IFN-dependent and independent manner.](https://pubmed.ncbi.nlm.nih.gov/35108342/) PLoS Pathog. 2022;18(2):e1010233. 2. Khan H, Ahmed H\*, Afzal MS, Awan UA, Khurram M, Simsek S, **Cao J\***. [Detection of anti-*Echinococcus granulosus* antibodies in humans: An update from Pakistan.](https://pubmed.ncbi.nlm.nih.gov/35055977/) Pathogens. 2021;11(1):29. 3. Wang Y, Gong W, Zhou H, Hu Y, Wang L, Shen Y, Yu G\*, **Cao J\***. [A novel miRNA from egg-derived exosomes of *Schistosoma japonicum* promotes liver fibrosis in murine schistosomiasis.](https://pubmed.ncbi.nlm.nih.gov/35572578/) Front Immunol. 2022;13:860807. 4. Numan M, Naz S, Gilani R, Minhas A, Ahmed H\*, **Cao J\***. [Evaluation of household preparedness and risk factors for cutaneous leishmaniasis (CL) using the community assessment for public health emergency response (CASPER) method in Pakistan.](https://pubmed.ncbi.nlm.nih.gov/35564462/)  Int J Environ Res Public Health. 2022;19(9):5068. 5. Kesik HK, Celik F, Kilinc SG, Simsek S\*, Ahmed H, Shen Y, **Cao J\***. [Genetic diversity and haplotype analysis of cattle hydatid cyst isolates using mitochondrial markers in Turkey.](https://pubmed.ncbi.nlm.nih.gov/35631040/) Pathogens. 2022;11(5):519. 6. Shoukat T, Awan UA, Mahmood T, Afzal MS, Wasif S, Ahmed H\*, **Cao J\***. [Epidemiology of toxoplasmosis among the Pakistani population: A systematic review and meta-analysis.](https://pubmed.ncbi.nlm.nih.gov/35745528/) Pathogens. 2022;11(6):675. 7. Rizwan M, Khan MR, Afzal MS, Manahil H, Yasmeen S, Jabbar M, Irum S, Simsek S, Wasif S, Mahmood T, Ahmed H\*, **Cao J\***. Prevalence of fascioliasis in livestock and humans in Pakistan: A systematic review and meta-analysis. Trop Med Infect Dis. 2022;7: 126 8. Zhang J, Qiu J, Zhou W, **Cao J**, Hu X, Mi W, Su B, He B, Qiu J, Shen L. [Neuropilin-1 mediates lung tissue-specific control of ILC2 function in type 2 immunity.](https://pubmed.ncbi.nlm.nih.gov/35075279/) Nat Immunol. 2022;23(2):237-250. 9. Sun H, Li J , Wang L, Yin K, Xu C, Liu G, Xiao T, Huang B, Wei Q, Gong M\*, **Cao J\***. Comparative proteomics analysis for elucidating the interaction between host cells and *Toxoplasma gondii*. Front Cell Infect Microbiol. 2021;11:643001. 10. Yan H, Feng J, Yin JH, Huang F, Kong XL, Lin KM, Zhang T, Feng XY, Zhou SS, **Cao JP\***, Xia ZG\*. [High frequency m-mutations in pfdhfr and pfdhps of *Plasmodium falciparum* in response to sulfadoxine-pyrimethamine: a cross-sectional survey in returning Chinese migrants from Africa.](https://pubmed.ncbi.nlm.nih.gov/34568082/) Front Cell Infect Microbiol. 2021;11:673194. 11. Li T, Liu H, Jiang N, Wang Y, Wang Y, Zhang J, Shen Y\*, **Cao J\***. [Comparative proteomics reveals *Cryptosporidium parvum* manipulation of the host cell molecular expression and immune response.](https://pubmed.ncbi.nlm.nih.gov/34818332/) PLoS Negl Trop Dis. 2021;15(11):e0009949. 12. Zhang Y, Wu Y, Liu H, Gong W, Hu Y, Shen Y, Cao J\*. [Granulocytic myeloid-derived suppressor cells inhibit T follicular helper cells during experimental *Schistosoma japonicum* infection.](https://pubmed.ncbi.nlm.nih.gov/34565440/) Parasit Vectors. 2021;14(1):497. 13. Jiang Y, Yuan Z, Shen Y, Rosa BA, Martin J, Cao S, Zhou Y, Mitreva M\*, **Cao J\***. [Alteration of the fecal microbiota in Chinese patients with *Schistosoma japonicum* infection.](https://pubmed.ncbi.nlm.nih.gov/33416489/) Parasite. 2021;28:1. 14. 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.](https://pubmed.ncbi.nlm.nih.gov/34354101/) Sci Rep. 2021;11(1):15904. 15. Liu L, Xie F, Yang A, **Cao J\***, Zhong B\*, Li W, Yang W, Wang Q, Zhao X, Yuan D. [Epidemiological analysis of cystic echinococcosis and alveolar echinococcosis in an extremely high prevalence region: Population-based survey and host animal monitoring in Shiqu County, China.](https://pubmed.ncbi.nlm.nih.gov/34048788/) Acta Trop. 2021;221:105982. 16. Sun H, Li J , Wang L, Yin K, Xu C, Liu G, Xiao T, Huang B, Wei Q, Gong M\*, **Cao J\***. Comparative Proteomics Analysis for Elucidating the Interaction Between Host Cells and *Toxoplasma gondii*. Front Cell Infect Microbiol. 2021;11:643001. 17. Zheng L, Wang L, Hu Y, Yi J, Wan L, Shen Y, Liu S, Zhou X\*, **Cao J\*.** Higher frequency of circulating Vδ1 γδg cells in patients with advanced schistosomiasis. Parasite Immunol. 2021;00:e12871. 18. 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. 19. 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. 20. 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. 21. Khan A, Ahmed H\*, Simsek S, Shahzad K, Celik F, Afzal MS, Khan MR, Liu H, Shen Y, **Cao J\***. Haplotype comparisons of *Echinococcus granulosus* sensu lato via mitochondrial gene sequences (co1, cytb, nadh1) among Pakistan and its neighbouring countries. Parasitology. 2021;148(9):1019-1029. 22. Khan H, Ahmed H\*, Afzal MS, Awan UA, Khurram M, Simsek S, **Cao J\***. Detection of Anti-*Echinococcus granulosus* Antibodies in Humans: An Update from Pakistan. Pathogens 2022,11,29. 23. Khan A, Ahmed H\*, Amjad S, Afzal MS, Haider W, Simsek S, Khawaja MR, Khan DH, Naz S, Durrance-Bagale A, Shabbir RMK, Arfeen RZU, Ali S, **Cao J\***. Community based assessment of behavior and awareness of risk factors of cystic echinococcosis in major cities of Pakistan: a one health perspective. Front Public Health. 2021;9:648900. 24. Muhammad A, Bashir R, Mahmood M, Afzal MS, Simsek S, Awan UA, Khan MR, Ahmed H\*, **Cao J**\*. Epidemiology of ectoparasites (ticks, lice, and mites) in the livestock of Pakistan: a review. Front Vet Sci. 2021;8:780738. 25. Maqsood T, Shahzad K, Naz S, Simsek S, Afzal MS, Ali S, Ahmed H\*, **Cao J\***. A cross-sectional study on the association between risk factors of toxoplasmosis and One Health knowledge in Pakistan. Front Vet Sci. 2021;8:751130. 26. Abbasi A, Shahzad K, Shabbir RMK, Afzal MS, Zahid H, Zahid T, Ahmed H\*, **Cao J\***. Demographic attributes of knowledge, attitude, practices, and One Health perspective regarding diarrhea in Pakistan. Front. Public Health. 2021;9:731272. 27. Hu Y, Wang X, Wei Y, Liu H, Zhang J, Shen Y, **Cao J\***. Functional inhibition of natural killer cells in a BALB/c mouse model of liver fibrosis induced by *Schistosoma japonicum* infection. Front Cell Infect Microbiol. 2020;10:598987. 28. 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. 29. 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(1):367. 30. Sun L, Gong W, Shen Y, Liang L, Zhang X, Li T, Chen TT, Hu Y\*, **Cao J**\*. IL-17A-producing γδ T cells promote liver pathology in acute murine schistosomiasis. Parasit Vectors. 2020;13(1):334. 31. Khan A, Ahmed H\*, Simsek S, Liu H, Yin J, Wang Y, Shen Y, **Cao J**\*. Molecular characterization of human *Echinococcus* isolates and the first report of *E.  canadensis* (G6/G7) and *E. multilocularis* from the Punjab Province of Pakistan  using sequence analysis. BMC Infect Dis. 2020;20:262. 32. Khan A, Ahmed H\*, Simsek S, Afzal MS, **Cao J**\*. Spread of cystic echinococcosis in Pakistan due to stray dogs and livestock slaughtering habits: research priorities and public health importance. Front Public Health. 2020;7:412. 33. Liu A\*, Gong B, Liu X, Shen Y, Wu Y, Zhang W, **Cao J**\*. A retrospective epidemiological   analysis of human *Cryptosporidium* infection in China during the past three  decades (1987-2018). PLoS Negl Trop Dis. 2020;14(3):e0008146. 34. Shen Y, Gong B, Liu X, Wu Y, Yang F, Xu J, Zhang X, **Cao J**\*, Liu A\*. First identification and genotyping of *Enterocytozoon bieneusi* in humans in Myanmar. BMC Microbiol. 2020;20(1):10. 35. 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. 36. Li XH, Vance GM, Cartwright J, **Cao JP**\*, Wilson RA\*, Castro-Borges W. Mapping the epitopes of *Schistosoma japonicum* esophageal gland proteins for incorporation into vaccine constructs. PLoS One. 2020;15(2):e0229542. 37. 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. 38. Wu L, Xi C, Liu Y, Jiang X, Chen S\*, **Cao J**\*. *Toxoplasma gondii* Rhoptry Protein 16 (ROP16) modifies apoptosis in human 293T cells. J Nanosci Nanotechnol. 2020;20(1):24-30. 39. Chen TT, Peng S, Wang Y, Hu Y, Shen Y, Xu Y, Yin J, Liu C, **Cao J**\*. Improvement of mitochondrial activity and fibrosis by resveratrol treatment   in mice with *Schistosoma japonicum* infection. Biomolecules. 2019;9:658. 40. Yin K\*, Zhao G, Xu C, Qiu X, Wen B, Sun H, Liu G, Liu Y, Zhao Q, Wei Q, Huang B, Yan G, **Cao J**\*. Prediction of *Toxoplasma gondii* virulence factor ROP18 competitive inhibitors by virtual screening. Parasit Vectors.2019;12:98. 41. Wei F, Gong W, Wang J, Yang Y, Liu J, Wang Y, **Cao J\***. Role of the lipoxin A4 receptor in the development of neutrophil extracellular traps in *Leishmania infantum* infection. Parasites & Vectors. 2019;12:275. 42. Ugwu CE#, Jiang YY#, Wu L Xu YX, Yin JH, Duan LP, Chen SX, Liu H, Pan W, Quan H, Shen YJ\*, **Cao JP**\*. In vitro screening of ginkgolic acids for antiparasitic activity against *Cryptosporidium andersoni*. Biomed Environ Sci. 2019; 32(4): 143-147. 43. 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;146(9):1199-1205. 44. Gong W, Huang F, Sun L, Yu A, Zhang X, Xu Y, Shen Y, **Cao J**\*. Toll-like receptor-2 regulates macrophage polarization induced by excretory-secretory antigens from *Schistosoma japonicum* eggs and promotes liver pathology in murine schistosomiasis. PLoS Negl Trop Dis. 2018;12(12):e0007000. 45. Yin JH, Liu CH, Yu AP, Yao JQ, Shen YJ\*, **Cao JP**\*. 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. 46. 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 compositionin subjects infected with *Clonorchis sinensis*. Front Microbiol. 2018;9:2292. 47. 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. 48. Jiang Y, Yuan Z, Zang G, Li D, Wang Y, Zhang Y, Liu H, **Cao J**\*, Shen Y\*. *Cyclospora cayetanensis* infections among diarrheal outpatients in Shanghai: a   retrospective case study. Front Med. 2018;12(1):98-103. 49. Yin J, Liu C, Shen Y, Zhang H, **Cao J**\*. Efficacy of ursolic acid against *Echinococcus granulosus* in vitro and in a murine infection model. Parasit Vectors. 2018;11(1):58. 50. Yin J, Shen Y, Yu A, Liu C, Yao J, Gong W, **Cao J**\*. The proangiogenic role of polymorphonuclear myeloid-derived suppressor cells in mice infected with *Echinococcus granulosus*.  BioScience Trends. 2018; 12(3):338-341. 51. 37.  Hu Y, Sun L, Yuan Z, Xu Y, **Cao J**\*. High throughput data analyses of the immune characteristics of *Microtus fortis* infected with *Schistosoma japonicum*. Sci Rep.2017;7(1):11311. 52. Zheng L, Hu Y, Wang Y, Huang X, Xu Y, Shen Y\*, **Cao J**\*. Recruitment of neutrophils mediated by Vγ2 γδ T Cells deteriorates liver fibrosis induced by *Schistosoma japonicum* infection in C57BL/6 mice. Infect Immun. 2017;85(8):e01020-16. 53. Pan W, Hao WT, Shen YJ, Li XY, Wang YJ, Sun FF, Yin JH, Zhang J, Tang RX, **Cao JP**\*, Zheng KY\*. The excretory-secretory products of *Echinococcus granulosus* protoscoleces directly regulate the differentiation of B10, B17 and Th17 cells. Parasit Vectors, 2017;10(1) :384. 54. Zhang W, Ren G, Zhao W, Yang Z, Shen Y, Sun Y, Liu A\*, **Cao J**\*. Genotyping of *Enterocytozoon bieneusi* and subtyping of *Blastocystis* in cancer patients: relationship to diarrhea and assessment of zoonotic transmission. Front Microbiol.2017;8:1835. 55. Liu H, Shen Y, Liu A, Yin J, Yuan Z, Jiang Y, Pan W, Zhang Y, Zhao W, **Cao J**\*.  Occurrence and multilocus genotyping of *Giardia duodenalis* in pets and zoo animals in Shanghai, China.  J Infect Dev Ctries. 2017; 11(6):479-486. 56. 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. 57. Huang  YL, Huang DN, Geng YJ, Fang SS, Yang F, Wu CL, Zhang HL, Wang M, Zhang R,  Wang X, Wu S, **Cao JP**\*, Zhang RL\*. An integrated control strategy takes *Clonorchis sinensis* under control in an endemic area in south China.  Vector-Borne Zoonotic Dis. 2017;17(12):791-798. 58. Liu Z, Yin L, Li Y, Yuan F, Zhang X, Ma J, Liu H, Wang Y, Zheng K\*, **Cao J**\*. Intranasal immunization with recombinant *Toxoplasma gondii* actin depolymerizing factor confers protective efficacy against toxoplasmosis in mice. BMC Immunol. 2016;17(1):37. 59. Zhang Y, Wang Y\*, Jiang Y, Pan W, Liu H, Yin J, Shen Y, **Cao J**\*. T follicular helper cells in patients with acute schistosomiasis. Parasit Vectors. 2016;9(1):321. 60. Zheng Y\*, Guo X, He W, Shao Z, Zhang X, Yang J, Shen Y, Luo X, **Cao J**\*. Effects of *Echinococcus multilocularis* miR-71 mimics on murine macrophage RAW264.7 cells. Int Immunopharmacol. 2016;34:259-262. 61. Liu Z, Yuan F, Yang Y, Yin L, Liu Y, Wang Y, Zheng K\*, **Cao J**\*. Partial protective immunity against toxoplasmosis in mice elicited by recombinant *Toxoplasma gondii* malate dehydrogenase. Vaccine. 2016;34(7):989–994. 62. Wu L, Wang X, Li Y, Liu Y, Su D, Fu T, Guo F, Gu L, Jiang X, Chen S\*, **Cao J**\*. *Toxoplasma gondii* ROP18: potential to manipulate host cell mitochondrial apoptosis. Parasitol Res. 2016;115(6):2415-2422. 63. Yang Z, Zhao W, Shen Y, Zhang W, Shi Y, Ren G, Yang D, Ling H, Yang F, Liu A\*, **Cao J**\*. Subtyping of *Cryptosporidium cuniculus* and genotyping of *Enterocytozoon bieneusi* in rabbits in two farms in Heilongjiang Province, China. Parasite. 2016;23,52. 64. Han S, Tang Q, Lu X, Chen R, Li Y, Shu J, Zhang X\*, **Cao J**\*. Dysregulation of hepatic microRNA expression profiles with *Clonorchis sinensis* infection. BMC Infect Dis.2016;16(1):724. | |
| **Books** | |
| 1.《Manual of Clinical Microbiology (12th Edition), Co-Chief-Translator, Chinese Medical Multimedia Press, Beijing, 2020  2.《Manson’s Tropical Diseases》(23rd Edition), Deputy Chief-translator, Shanghai Science & Technology Publishers, Shanghai, 2020  3.《Pathogen Surveillance and Detection Techniques: Diarrhea Syndrome》, Associate Editor, Sun Yat-sen University Press, Guangzhou, 2016  4.《Modern Parasitology》(2nd Edition), Associate Editor，People's Military Medical Press, Beijing, 2015 | |
| **Patents** | |
| 1. Shen Yujuan，**Cao Jianping**，Liu Hua，Yuan Zhongyin，Jiang Yanyan，Yin Jianhai，Wang Yanjuan. Multiplex PCR kit and detection method for detecting emerging intestinal protozoan. ZL 201510093500.9, 2017  2. Shen Yujuan，Chen Shengxia，Jin Hong，Li Feng，Pan Yuqin，Sun Qiyan，Wu Liang，**Cao Jianping**. Recognition Method for Parasite Egg Based Shape Image. ZL 201110022426.3, 2012  3. Yin Jianhai，**Cao Jianping**，Liu Congshan，Zhang Haobing，Shen Yujuan. Application of ursolic acid in preparation of anti-hydatid drugs. ZL 2016 1 0517861.6, 2019.  4. **Cao Jianping**, Ugwu Chidiebere Emmanuel, Yujuan Shen，Yanyan  Jiang，Liping Duan, Zhongying Yuan. Application of ginkgo acid against *Cryptosporidium*. ZL 201310539693.7, 2016  5. **Cao Jianping**, Cai Huixia, Shen Yujuan，Han Xiumin，Hu Yuan，Wang Hu，Lu Weiyuan，Xu Yuxin，Guan Yayi.  Recombinant antigen protein for diagnosis of *Echinococcus granulosus*, its preparation method and application. ZL 201010284913.2, 2012 | |
| **Honors and Awards** | |
| 1. Study on the pathogens and key techniques of molecular detection for important emerging intestinal protozoan and their application in China. Second Prize of China Medical Science and Technology Award, second Prize of Shanghai Science and Technology Progress Award, and third Prize in the Huaxia Medical Technology Awards in 2019.  2. Establishment and application of nucleic acid assays and genotyping techniques for *Cryptosporidium* in China. Third prize of China Preventive Medicine Science and Technology Award (2015) | |