

CURRICULUM VITAE

Name: Yujuan Shen **Gender:** Female

Time of Birth: Oct 19, 1969

Place of birth: Shanghai, P.R.China

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Education

9/2004-12/2007 Master of Medicine degree in Department of Basic Medicine, Soochow University, Suzhou, P.R.China

Major in Parasitology

Master Thesis: Study on immunoscreening of *Schistosoma japonicum* schistosomula cDNA library with sera from *Microtus fortis* and immunogenicity of "target" antigen.

Supervisor: Prof. Chaoming Xia

9/1988-7/1992 Bachelor of Agronomy degree in Department of Animal Science, Shanghai Jiaotong University, School of Agriculture and Biology (original, Shanghai Agriculture University), Shanghai, P.R.China.

Major in Veterinary Medicine

9/1985-7/1988, Songjiang No.2 High School, Songjiang County, Shanghai

Work Experience

7/1992- now National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention; Key Laboratory of Parasite and Vector Biology, MOH, China
207 Rui Jin Er Road, Shanghai, 200025, P.R.China

Professor

Duties

I have been working on parasites, molecular epidemiology, genotyping, source tracking, risk assessment of Emerging Infectious Diseases, eg. *Cryptosporidium*, and infectious

immunity, vaccine, Pathogenic mechanism of important parasite, and pathogen of rare parasites.

Main publications:

1. Hua Liu, **Yujuan Shen***, Jianhai Yin, Zhongying Yuan, Yanyan Jiang, Yuxin Xu, Wei Pan, Yuan Hu, Jianping Cao. Prevalence and genetic characterization of *Cryptosporidium*, *Enterocytozoon*, *Giardia* and *Cyclospora* diarrheal outpatients in china. BMC Infect Dis, 2014, doi:10.1186/1471-2334-14-25
2. Weizhe Zhang, Rongjun Wang, Fengkun Yang, Longxian Zhang, Jianping Cao, Xiaoli Zhang, Hong Ling, Aiqin Liu, **Yujuan Shen***. Distribution and genetic characterizations of *Cryptosporidium* spp. in pre-weaned dairy calves in Northeastern China's Heilongjiang Province. PLoS ONE, 2013, 8(1): e54857. doi:10.1371/journal.pone.0054857
3. Jianhai Yin, Zhongying Yuan, Huixia Cai, **Yujuan Shen***, Yanyan Jiang, Jing Zhang, Yanjuan Wang, Jianping Cao. Age-related infection of *Cryptosporidium* species and genotype in pigs in China. Biomed Environ Sci, 2013,26(6):465-470
4. **Shen Yujuan**, Yin Jianhai, Yuan Zhongying, Lu Weiyuan, Xu Yuxin, Xiao Lihua, Cao Jianping. The identification of the *Cryptosporidium ubiquitum* in pre-weaned ovines from Aba Tibetan and Qiang autonomous prefecture in China. Biomed Environ Sci, 2011,24(3):315-320
5. Jianhai Yin., **Yujuan Shen(co-first author)**, Zhongying Yuan, Weiyuan Lu, Yuxin Xu, Jianping Cao. Prevalence of the *Cryptosporidium* Pig Genotype II in Pigs from the Yangtze River delta, China. PLoS ONE, 2011,6(6):e20738. doi:10.1371/ journal.pone.0020738
6. Weizhe Zhang, **Yujuan Shen(co-first author)**, Rongjun Wang, Aiqin Liu, Hong Ling, Yihong Li, Jianping Cao, Xiaoyun Zhang, Jing Shu, Longxian Zhang. *Cryptosporidium cuniculus* and *Giardia duodenalis* in Rabbits: Genetic Diversity and Possible Zoonotic Transmission. PLoS ONE ,2012,7(2): e31262. doi:10.1371/journal.pone.0031262
7. **Shen YJ**, Yin JH, Yuan ZY, Lu WY, Xu YX, Xiao LH. Cao JP. The Identification of the *Cryptosporidium ubiquitum* in Pre-weaned Ovines from Aba Tibetan and Qiang Autonomous Prefecture in China. Biomed Environ Sci,2011,24(3):40-46
8. Aiqin Liu, Fengkun Yang, **Yujuan Shen**, Weizhe Zhang, Rongjun Wang, Wei Zhao, Longxian Zhang, Hong Ling, Jianping Cao. Genetic analysis of the *Gdh* and *Bg* genes of animal-derived *Giardia duodenalis* isolates in Northeastern China and evaluation of zoonotic transmission potential. PLoS ONE,2014,9(4): e95291.doi: 10.1371/journal.pone.0095291

9. Aiqin Liu, Hong Ji, Ensheng Wang, Jingbo Liu, Lihua Xiao, **Yujuan Shen**, Yihong Li, Weizhe Zhang, Hong Ling. Molecular identification and distribution of *Cryptosporidium* and *Giardia duodenalis* in raw urban wastewater in Harbin, China. *Parasitol Res*, 2011, DOI 10.1007/s00436-011-2333-4
10. Jianhai Yin, Zhongying Yuan, **Yujuan Shen**, Jing Zhang, Yanyan Jiang, Jianping Cao. Molecular identification of *Cryptosporidium* spp. from animal sources in China. *J Infect Dev Ctries* 2013; 7(12):1020-1022
11. Aiqin Liu, Fengkun Yang, **Yujuan Shen**, Weizhe Zhang, Rongjun Wang, Wei Zhao, Longxian Zhang, Hong Ling, Jianping Cao. Genetic Analysis of the *Gdh* and *Bg* Genes of Animal-Derived *Giardia duodenalis* Isolates in Northeastern China and Evaluation of Zoonotic Transmission Potential. *PLoS ONE*, 2014, 9(4): e95291. doi:10.1371/journal.pone.0095291
12. Wei Pan, Hejun Zhou, **Yujuan Shen**, Ying Wang, Yuxin Xu, Yuan Hu, Yanyan Jiang, Chidiebere E. Ugwu, Zhongying Yuan, Jianping Cao. Surveillance on the Status of Immune Cells after *Echinococcus granulosus* Protoscoleces Infection in Balb/c Mice. *PLoS ONE*, 2013, 8(3): e59746. doi:10.1371/journal.pone.0059746
13. Wei Diao, Hejun Zhou, Wei Pan, Haipeng Liu, **Yujuan Shen**, Yuxin Xu, Xiaohong Li, Jianping Cao. Expression and immune characterization of a novel enzyme, protein arginine methyltransferase 1, from *Schistosoma japonicum*. *parasitol Res*. 2013; DOI 10.1007/s00436-013-3723-6
14. Huan Hu, Yuxin Xu, Weiyuan Lu, Zhongying Yuan, Hong Quan, **Yujuan Shen**, Jianping Cao. De novo assembly and transcriptome characterization: novel insights into the natural resistance mechanisms of *Microtus fortis* against *Schistosoma japonicum*. *MBC Genomics*, 2014, doi:10.1186/1471-2164-15-417
15. Hu Y, Xu Y, Lu W, Quan H, **Shen Y**, Yuan Z, Zhang J, Zang W, He Y, Cao J. Effects of *Microtus fortis* lymphocytes on *Schistosoma japonicum* in a bone marrow transplantation model. *Exp Parasitol*. 2014 Apr 16. doi: 10.1016/j.exppara.2014.04.005
16. Hu Y, Lu W, **Shen Y**, Xu Y, Yuan Z, Zhang C, Wu J, Ni Y, Liu S, Cao J. Immune changes of *Schistosoma japonicum* infections in various rodent disease models. *Exp Parasitol*, 2012 Jun; 131(2):180-9. Epub 2012 Apr 11
17. Wu L, Jiang XG, **Shen YJ**, Lu ZX, Tu GH, Fu XL, Chen SX, Cao JP. Efficacy of ginkgolic acids against *Cryptosporidium andersoni* in cell culture. *Parasitol Res*. 2011 May 10, PMID: 21556686
18. Wang RJ, Qiu SX, Jian FC, Zhang SM, **Shen YJ**, Zhang LX, Ning CS, Cao JP, Qi Meng, Xiao LH. Prevalence and molecular identification of *Cryptosporidium* spp. in pigs in Henan, China. *Parasitol Res*, 2010, 107:1489-1494

19. Liang Wu, Shengxia Chen, Xugan Jiang, **Yujuan Shen**, Zhaoxi Lu, Guo-hua Tu, Xing-li Fu, Jian-ping Cao. Effect of select medium supplements on in vitro development of *Cryptosporidium andersoni* in HCT-8 cells. *Parasitol Res*, 2009,105(5):1419-1424
20. Liang Wu, Shengxia Chen, Xugan Jiang, Xingli Fu, **Yujuan Shen**, Jianping Cao. Separation and purification of *Toxoplasma gondii* tachyzoites from in vitro and in vivo culture systems . *Experimental Parasitol*. 2012, 130(1): 91-94.
21. Hejun Zhou, Xi Sun, Zhiyue Lv, **Yujuan Shen**, Hui Peng, Lingling Yang, Huanquin Zheng, Ming Chiu Fung, Jianping Cao, Zhongdao Wu. The secretions products from invading cercariae of *S. japonicum* (0–3hRP) restrain mouse dendritic cells to mature. *Parasitol Res*, 2011, DOI: 10.1007/s00436-011-2458-5
22. Weizhe Zhang, Xiaoli Zhang, Rongjun Wang, Aiqin Liu, **Yujuan Shen**, Hong Ling, Jianping Cao, Fengkun Yang, Xiaoyun Zhang, Longxian Zhang. Genetic characterizations of *Giardia duodenalis* in sheep and goats in Heilongjiang Province, China and possibility of zoonotic transmission. *PLoS Negl Trop Dis*,2012, 6(9): e1826. doi:10.1371/journal.pntd.0001826
23. Aiqin Liu, Hong Ji, Ensheng Wang, Jingbo Liu, Lihua Xiao, **Yujuan Shen**, Yihong Li , Weizhe Zhang,Hong Ling. Molecular identification and distribution of *Cryptosporidium* and *Giardia duodenalis* in raw urban wastewater in Harbin, China. *Parasitol Res*.2011,DOI 10.1007/s00436-011-2333-4
24. Rongjun Wang,Shuxing Qiu,Fuchun Jian, Sumei Zhang, **Yujuan Shen**, Longxian Zhang, Changshen Ning, Jianping Cao, Lihua Xiao. Prevalence and molecular identification of *Cryptosporidium* spp. in pigs in Henman, China. *Parasitol Res*, 2010, 107:1489-1494
25. Liang Wu, Shengxia Chen, Xugan Jiang,**Yujuan Shen**, Zhaoxi Lu, Guohua Tu, Xingli Fu, Jianping Cao. Effect of select medium supplements on in vitro development of *Cryptosporidium andersoni* in HCT-8 cells. *Parasitol Res*, 2009,105(5):1419-1424
26. **Shen Yujuan**, Lu Weiyuan, Yuan Zhongying, Xu Yuxin, Chen Qin, Cao Jianping. Preliminary evaluation on diagnostic of raw antigen of *Armillifer agkistrodontis* nymph. *Int J Med Parasit Dis*, 2010,37(1):17-20
27. Hu Yuan, **Shen Yujuan***, Cao Jianping, Xu Yuxin, Lu Weiyuan, Zhou Hejun, Zhang Jing, Li Xiaohong,Quan Hong, Liu Shu-xian. Protective Immunity Induced by Recombinant *Schistosoma* hypoxanthine-guanine phosphoribosyltransferase with different Adjuvants in Mice. *Journal of Jiangsu University(Medicine Edition)*. 2010,20(2):93-97
28. Yuan Zhongying, **Shen Yujuan***, Cao Jingping, Liu Hiu, Chen Shengxia. Identification of Calf-origin *Cryptosporidium bovis* Shanghai isolate by Nested PCR.*Chin J Parasitol*

Parasit Dis, 2009,27(2):135-139

29. Yuan ZY, **Shen YJ***, Cao JP, Zhou HJ, Lu WY, Chen Q, Ni YC, Tang LH. Detection of calf-origin *Cryptosporidium bovis* DNA by loop-mediated isothermal amplification. Int J Med Parasit Dis,2009, 36(3):144-146
30. Yuan Zhongying, **Shen Yujuan***, Cao Jingping, Shen Jijia, Xu Yuxin, Diao Wei. Immunoscreening of *Schistosoma japonicum* schistosomula cDNA library with sera from *Microtus fortis* and Bioinformatic Analysis of the novel genes. Chin J Schisto Control, 2008,20(4):255-258
31. **Shen Yujuan**, Chen Qin, Cao Jiangping. Current situation and a strategy of *Cryptosporidium* in China. Int J Med Parasit Dis,2009,36(5):294-298
32. **Shen Yujuan**, Xia Chaoming, Cao Jianping, Xu Yuxin, Li Xiaohong, Liu Haipeng, Lu Weiyuan, Liu Shuxian. Cloning and expression of the gene encoding hypoxanthine phosphoribosyltransferase of *Schistosoma japonicum*. Chin J Schisto Control,2007,19(3):165-169
33. **Shen Yujuan**, Chen Yougui, Li Xiaohong, Lu We-yuan, Xu Yuxin, Liu Yisheng, Liu Shuxian, Zhou Xiaonong, Tang Lin-hua. Isolation and Identification of an Isolate of Cow-origin *Cryptosporidium spp.*. Chin J Parasitol Parasit Dis,2007(2):81-86
34. Pan Wei, **Shen Yujuan**, Liu Hua, Hu Yuan, Jiang Yanyan, Zhou Hejun, Xu Yuxin, Yuan Zhongying, Wang Yanjuan, Cao Jianping. Accumulation of Myeloid-derived Suppressor Cells in the Spleen and Peripheral Blood of *Schistosoma japonicum*-infected Mice. Chin J Parasitol Parasit Dis, 2014,32(1):6-11
35. Wang YJ, Xu YX, Hu Y, **Shen YJ**, Li P, Zhou HJ, Cao JP. Study on the destructive effect of spleens in C57BL/6 mice by eggs of *Schistosoma japonicum*. Chin J Schistosomiasis Control, 2011,23(3):1-3
36. Yin Jianhai, **Shen Yujuan**, Cao Jianping. Advance on Application of *Cryptosporidium* Infected Animal Models and its In Vitro Cultivation. Chin J Parasitol Parasit Dis. 2010,28(5):387-392
37. Cai Huixia, **Shen Yujuan**, Han Xiumin, Yuan Zhongying, Wang Hu, Xu Yuxin, Hu Yuan, Lu Weiyuan, Guan Yayi, Cao Jianping. Cloning, Expression and immune-diagnostic Evaluation of Antigen EPC1 from *Echinococcus granulosus*. Chin J Parasitol Parasit Dis, 2011,29(3):167-171
38. Chen SX, Wu L, **Shen YJ**, Zhang QX, Li TT, Jian XG, Xu YX, Cao JP. Real-time PCR in Analyzing DNA Extraction from *Cryptosporidium* Oocysts. Chin J Parasitol Parasit Dis, 2009,27(2):130-134

Travel History: Korea (2013)

Travelling With: Hua Liu, PhD student and Group member