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CURRICULUM VITAE

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EDUCATION

Medical School Nanjing Medical College, Nanjing, China
Medical Doctor in Pediatrics, 1991
Excellent student with Yang Buwei Award

Graduate School Nanjing Medical University, Nanjing, China
Master, Fundamental Medicine, 1994
Nanjing Medical University, Nanjing, China
PhD, Molecular and Immuno-parasitology, 1997

POSTGRADUATE TRAINING

University of California at Berkeley; 2200 Bancroft Way, Berkeley, CA
94720, USA; Molecular and cell biology Post-doctoral Research Associate; 2000-2001

Brown University, 69 Brown St, Providence, RI 02912, USA; Public health and vaccine
development; Post-doctoral Research Associate; 2001-2003

ACADEMIC APPOINTMENTS

Assistant Professor, Department of Parasitology, Nanjing Medical University, Nanjing,
China, 1997- 2000

Associate Professor and Professor, Department of Pathogen Biology, Nanjing Medical
University, Nanjing, China, 2003- 2007

Research Associate, Center for International Health Research, Rhode Island Hospital,
USA, 2007 - 2008

Assistant Professor of Pediatrics (research), Brown University, Center for International
Health Research, Rhode Island Hospital, USA, 2009 - 2019

Associate Professor of Pediatrics (research), Brown University, Center for International
Health Research, Rhode Island Hospital, USA, 2019 - present

OTHER APPOINTMENTS

SCIENTIFIC REVIEW APPOINTMENTS (Peer Reviewer for following journals)

Acta Tropica (n =14), 2008 - present
BMC infectious diseases (n=1), 2010
Gene Expression Patterns (n=2), 2018-present
International Journal of Infectious Disease (n=3), 2016 - present
MDPI, International Journal of Molecular Sciences (n=3), 2017-present
MDPI, Tropical Medicine and Infectious Disease (n=6), 2017- present
International Journal of Tropical Disease and Health (n=1), 2017
Journal of Proteomics (n=1), 2015
Journal of Parasitology Research (n=3), 2016 – present
Journal of Tropical Medicine and parasitology (n=3), 2013-2014
Molecular and Biochemical Parasitology (n=1), 2010
Parasite and Vectors (n=2), 2014- present
Parasitology Research (n=7), 2016 - present
Parasitology International (n=1), 2013
Plos Neglected Tropical Diseases (n=5), 2009 - present
Plos ONE (n=2). 2018 - present
Trans Roy Soc Trop Med Hyg (n=5), 2010 - 2013
The Medscape Journal of Medicine (n=1), 2008 - present
Veterinary parasitology (n=1), 2018

MEMBERSHIP IN SOCIETIES

Member, American Society of Tropical Medicine and Hygiene, 2006 - present
Trustee, Jiangsu Association of Bio-technology, China, 2004 - 2007
Grant Peer Review Member, National Science Foundation of China, 2004 - 2009
Vice Director, Jiangsu Association of Zoology, Parasitology Branch, China, 2005 - 2007

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. **Haiwei Wu**, Jianping Luo and Guanling Wu, 1995. [A method for the standardization of OD value for the study of schistosome antibody with ELISA]. Acta Parasitol Med Entomol Sin 2(3):140
2. Suzhen Chen, **Haiwei Wu**, Zhaosong Zhang, 1997. [A directional cloning gene expression library of Schistosoma japonicum]. Chinese J Zoonoses 13(6):23
3. Chuan Su, **Haiwei Wu**, Zhaosong Zhang, Suzhen Chen, Guanling Wu, 1997. [Studies on the cloning and expression of the recombinant Sj22.6kDa antigen gene of schistosoma japonicum]. Chinese Journal of Parasitology and Parasitic Diseases 15(6):326

4. **Haiwei Wu**, Lei Shen, Zhaosong Zhang, Suzhen Chen, Linsheng Hu, Zhangwu Xie, Jianping Chao, Shaoji Zhang, 1997. [Studies on antibody responses and human schistosomiasis japonica reinfection]. Chinese Journal of Parasitology and Parasitic Diseases 15(6):345-7
5. Zhaosong Zhang, **Haiwei Wu**, Suzhen Chen, Linsheng Hu, Zhangwu Xie, Jianping Chao, Shaoji Zhang, Guanling Wu, 1997. Association between IgE antibody against soluble egg antigen and resistance reinfection with *Schistosoma japonicum*. Trans Roy Soc Trop Med Hyg 91:606-9
6. Zhaosong Zhang, **Haiwei Wu**, Suzhen Chen, Linsheng Hu, Zhangwu Xie, Jianping Chao, Shaoji Zhang, Guanling Wu, 1997. Isotypic antibody responses of a population in an endemic area of schistosomiasis japonica and their epidemiological significance. Southeast Asian J Trop Med Public Health 28(2): 268
7. **Haiwei Wu**, Lei Shen, Suzhen Chen, Zhaosong Zhang, Guanling Wu, 1998. [Human cytokine responses stimulated by schistosome antigens in schistosomiasis japonica endemic area]. Acta Univ Med Nanjing 18(6):472-3
8. Chuan Su, Wei Zhao, **Haiwei Wu**, Zhaosong Zhang, Suzhen Chen, Guanling Wu, 1998. [Researches on the nucleotide sequencing of the recombinant Sj22.6kDa antigen gene of schistosoma japonicum]. Chinese Journal of Parasitology and Parasitic Diseases 16(6): 105-7
9. **Haiwei Wu**, Suzhen Chen, Zhaosong Zhang, Chuan Su, Guanling Wu, 1998. [Screening and characterization of schistosoma japonicum reinfection-related cDNA clones]. Chin J Para Parasitic Diseases 16(5): 372 -4
10. **Haiwei Wu**, Suzhen Chen, Rongzhi, Chuan Su, Zhaosong Zhang, Guanling Wu, 1998. [Construction of *Schistosoma japonicum* (Chinese mainland strain) egg cDNA library]. Chin J Para Dise Control 11(4): 302-5
11. Nokes C, McGarvey ST, Shiue L, Wu G, **Wu H**, Bundy DAP, Olds GR, 1999. Evidence for an improvement in cognitive function following treatment of *Schistosoma japonicum* infection in Chinese primary schoolchildren. Am J Trop Med Hyg 60 (4): 556-65
12. Lei Shen, **Haiwei Wu**, Zhaosong Zhang, Linsheng Hu, Suzhen Chen, Guanling Wu, 2000. [Study on human cytokine response before and after chemotherapy with praziquantel in an endemic area with Sj]. Chinese Journal of Parasitology and Parasitic disease 18(1): 14-7

13. Lei Shen, **Haiwei Wu**, Zhaosong Zhang, Suzhen Chen, Zhangwu Xie, Guanling Wu. [Human parasite antigen-specific IFN-gamma production in Sj endemic area]. Chinese Journal of Parasitology and Parasitic disease. 2000,18(3): 143
14. Xue-Mei Hu, Zhaosong Zhang, **Hai-Wei Wu**, Guan-Ling Wu, 2002. [Study on the immunogenicity of *Schistosoma japonicum* mitochondrial related protein]. Chinese Journal of Infectious Disease 20(2): 86-9
15. Wei Zhao, Chuan Su, **Hai-Wei Wu**, Guan-Ling Wu, 2002. [Studies on immunoprotection in mice after immunization with *Schistosoma japonicum* fatty acid binding protein (Sj-FABPc) recombinant protein]. Chinese J or Zoonoses, 18(3): 42-5
16. Xue-Mei Hu, Zhao-Song Zhang, **Hai-Wei Wu**, Guan-Ling Wu, 2002. [Identification of epitope of 22.6kDa antigen of *Schistosoma japonicum* with Phage displayed random peptide library]. Chinese Journal of Parasitology and Parasitic disease. 20(3): 164-7
17. L Shen, ZS Zhang, **HW Wu**, Guan-Ling Wu, 2002. Down-regulation of specific antigen-driven cytokine production in a population with endemic *Schistosoma japonicum* infection. Clin Exp Immunol 129:339-45
18. Xue-Mei Hu, Zhao-Song Zhang, **Hai-Wei Wu**, Guan-Ling Wu, 2002. [Identification of mitochondrial epitope related protein of *Schistosoma japonicum* with phage displayed random peptide library]. Chin J Microbiol Immuno, 22(2): 180
19. Xue-Mei Hu, Zhao-Song Zhang, **Hai-Wei Wu**, Guan-Ling Wu, 2002. [Immunocytochemical location of mitochondrial related protein of *Schistosoma japonicum* adult worms]. Chinese J Zoonoses. 18(5): 33
20. Xue-Mei Hu, Zhao-Song Zhang, **Hai-Wei Wu**, Guan-Ling Wu, 2002. [Studies on immunoprotection in mice after immunization with the epitopes of mitochondrial-related protein rSj338 and rSj22.6 of *Schistosoma japonicum*]. Chin J Schisto Control 14(2): 88
21. Shen L, Zhang ZS, **Wu HW**, Weir RE, Xie ZW, Hu LS, Chen SZ, Ji MJ, Su C, Zhang Y, Bickle QD, Cousens SN, Taylor MG, Wu GL, 2003. IFN-gamma is associated with risk of *Schistosoma japonicum* infection in China. Parasite Immunol. 25(10): 483-7.
22. Ji MJ, Su C, **Wu HW**, Zhu X, Cai XP, Li CL, Li GF, Wang Y, Zhang ZS, Wu GL, 2003. Gene expression profile of CD4+ T cells reveals an interferon signaling

suppression associated with progression of experimental *Schistosoma japonicum* infection. *Cell Immunol.* 224(1):55-62

23. **Wu HW**, Tian HS, Wu GL, Langdon G, Kurtis J, Shen B, Ma L, Li XL, Gu Y, Hu XB, Zhu CL, 2004. *Culex pipiens pallens*: identification of genes differentially expressed in deltamethrin-resistant and -susceptible strains. *Pesticide Biochemistry & Physiology*, 79 (3): 75-83
24. Yin XX, Zhang YD, **Wu HW**, Zhu X, Zheng XG, Jiang SJ, Zhuo HT, Shen JP, Li LM, Qiu J, 2004. [Protective effects of Astragalus saponin I on early stage of diabetic nephropathy in rats]. *Journal of Pharmacological* 95 (2): 256-66
25. Wang Xin-jun, Zhang Zhao-song, Wang Yong, **Wu Hai-Wei***, 2004. [Identification of T Cell Epitopes on Paramyosin of *Schistosoma japonicum*]. *Journal of Tropical Medicine* 4(6):653-6
26. Ji MJ, Cai XP, Su C, **Wu HW**, Li GF, Wang Y, Zhu X, Wang XJ, Zhang ZS, Wu GL, 2004. Studies on the characteristic of interferon-gamma mediating resistance in mice infected with *Schistosoma japonicum*. *Chinese Journal of Parasitology and Parasitic disease* 22(1):29-32
27. Li GF, Wang Y, Zhang ZS, Wang XJ, Ji MJ, Zhu X, Liu F, Cai XP, **Wu HW**, Wu GL, 2005. Identification of immunodominant Th1-type T cell epitopes from *Schistosoma japonicum* 28 kDa glutathione-S-transferase, a vaccine candidate. *Acta Biochim Biophys Sin (Shanghai)* 37(11):751-8
28. Yin XX, Zhang YD, Shen JP, **Wu HW**, Zhu X, Li LM, Qiu J, Jiang SJ, Zheng XG, 2005. Protective effects of bendazac lysine on early experimental diabetic nephropathy in rats. *Acta Pharmacol Sin* 26 (6): 721- 8
29. Coutinho HM, McGarvey ST, Acosta LP, Manalo DL, Langdon GC, Leenstra T, Kanzaria HK, Solomon J, **Wu H**, Olveda RM, Kurtis JD, Friedman JF, 2005. Nutritional status and serum cytokine profiles in children, adolescents, and young adults with *Schistosoma japonicum*-associated hepatic fibrosis, in Leyte, Philippines. *J Infect Dis* 192(3):528-36.
30. Jennifer F Friedman, Hermal K Kanzaria, Luz P Acosta, Gretchen C Langdo, Daria L Manalo, **Hai-Wei Wu**, Remigio M Olveda, Stephen T McGarvey, Jonathan D Kurtis, 2005. Relationship between *Schistosoma japonicum* and Nutritional status among Children and Young Adults in Leyte, the Philippines, *Am J Trop Med Hyg* 72(5):527-533
31. Xiang Zhu, Zhao-Song zhang, Min-Jun Ji, **Hai-Wei Wu***, 2005. Gene Transcription Profile in Mice Vaccinated with Ultraviolet-attenuated Cercariae of

Schistosoma japonicum Reveals Molecules Contributing to Elevated IFN-gamma Levels. *Acta Biochemica et Biophysica Sinica* 37(4):254-64

32. **Wu Hai-Wei***, Hu Xue-Mei, Wang Yong, Kurtis JD, Zeng Fan-Jie, McGarvey ST, Wu Guan-Ling, Zhang Zhao-Song, Hua Zi-Chun, 2006. Protective immunity induced by phage displayed mitochondrial related peptides of *Schistosoma japonicum*. *Acta Trop* 99:200-7
33. Kurtis JD, Friedman JF, Leenstra T, Langdon GC, **Wu HW**, Manalo DL, Su L, Jiz M, Jarilla B, Pablo AO, McGarvey ST, Olveda RM, Acosta LP, 2006. Pubertal development predicts resistance to infection and reinfection with *Schistosoma japonicum*. *Clin Infect Dis* 42(12):1692-8.
34. Yin XX, Zhang YD, Yu JX, Zhang P, Shen JP, Qiu J, **Wu HW**, Zhu XA, 2006. The antioxidative effects of Astragalus saponin I protect against development of early diabetic nephropathy. *J Pharmacol Sci* 101 (2): 166-173
35. Ji MJ, Su C, Wang Y, **Wu HW**, Cai XP, Li GF, Zhu X, Wang XJ, Zhang ZS, Wu GL, 2006. Characterization of CD4+ T cell responses in mice infected with *Schistosoma japonicum*. *Acta Biochim Biophys Sin (Shanghai)* 38(5):327-34
36. Cai XP, Zhang H, Zhang YC, Wang Y, Su C, Ji MJ, **Wu HW**, Zhu X, Zhang ZS, Wu GL, 2006. Dynamics of CD4+CD25+ T cells in spleens and mesenteric lymph nodes of mice infected with *Schistosoma japonicum*. *Acta Biochim Biophys Sin (Shanghai)* 38(5):299-304
37. Leenstra T, Acosta LP, **Wu HW**, Langdon GC, Solomon JS, Manalo DL, Su L, Jiz M, Jarilla B, Pablo AO, McGarvey ST, Olveda RM, Friedman JF, Kurtis JD, 2006. T-Helper-2 Cytokine Responses to Sj97 Predict Resistance to Reinfection with *Schistosoma japonicum*. *Infect Immun* 74(1):370-81
38. Guo Caiqin, Zhang Meijuan, Hu Shuying, Shan Hao, Zhang Suhua, Wang Rongzhi, Ni Zhongyun, Ji Minjun, **Wu Haiwei*** and Wu Guanling, 2006. [Dynamic changes of early immune response in C57B/6 mice vaccinated with UV-attenuated *Schistosoma japonicum*]. *Chin J Schisto Control* 18(3):165-9
39. Hu Shu-ying, Zhang Mei-juan, Guo Cai-qin, Shan Hao, Zhang Su-hua, Zhang Yuan-yuan, Hou Min, Ji Min-jun, **Wu Hai-wei***, Wu Guanling, 2006. [Study on the protection of 57BL/6 mice vaccinated with UV-attenuated *Schistosoma japonicum* cercariae]. *Journal of Pathogen Biology*, 2006: 1(3):181-5
40. Zhao Wangsheng, Jiang Shufang, Gu Bin, WuShanshan, Liu Genyan, Zhang Qiaodi, **Wu Haiwei***, 2007. [Survey on gene mutations of quinolone-resistant

Acinetobacter baumannii in Nanjing region of China]. Chinese Journal of Clinical Laboratory Science 25:90-2

41. Wen Li-yong, Zhang Jian-feng, Chen Jun-hu, Yan Xiao-lan, Yu Li-ling, Shao Guan-hong, **Wu Hai-wei**, Wu Guan-ling, 2007. [Surveillance and assessment on the morbidity in transmission block areas of schistosomiasis for ten years]. Chinese Journal of Zoonoses. 22:1118-20
42. Zhou Mei-hong, Zhang Yuan-yuan, Chen Jun-hu, Hu Fei, Liu Wen-qi, Xu Ming-xing, Wang Qi-zhi, Xu Jin-mei, Luo Jian-ping, Wu Guan-ling, **Wu Hai-wei***, 2007. [Development and primary application of a software of schistosomiasis field data management system]. Chinese Journal of Zoonoses 23:165-7
43. Coutinho HM, Acosta LP, **Wu HW**, McGarvey ST, Su L, Langdon GC, Jiz MA, Jarilla B, Olveda RM, Friedman JF, Kurtis JD, 2007. Th2 cytokines are associated with persistent hepatic fibrosis in human *Schistosoma japonicum* infection. J Infect Dis 195(2):288-95.
44. Shan Hao, Xu Jin-mei, Hou Min, Ji Min-jun, Zhang Su-hua, **Wu Hai-wei***, 2007. [Prediction of B-Cell Epitopes on SA35 and SA40 of *Cryptosporidium parvum*]. Journal of Tropical Medicine. 7:5209-12
45. Lin DD, Xu JM, Zhang YY, Liu YM, Hu F, Xu XL, Li JY, Gao ZL, **Wu HW***, Kurtis J, Wu GL, 2008. Evaluation of IgG-ELISA for the diagnosis of *Schistosoma japonicum* in a high prevalence, low intensity endemic area of China. Acta Trop 107: 128–33
46. Lin DD, Liu JX, Liu YM, Hu F, Zhang YY, Xu JM, Li JY, Ji MJ, Bergquist R, Wu GL, **Wu HW***, 2008. Routine Kato-Katz technique underestimates the prevalence of *Schistosoma japonicum*: A case study in an endemic area of the People's Republic of China. Parasitol Int 57:281-286.
47. Jiz M, **Wu HW***, Meng R, Pond-Tor S, Reynolds M, Friedman JF, Olveda R, Acosta L, Kurtis JD, 2008. Pilot-scale production and characterization of paramyosin, a vaccine candidate for schistosomiasis japonica. Infect Immun 76:3164-3169.
48. Luo J, Xu J, Zhang Y, Shan H, Zhang S, Zhang M, Tu X, Ji M, Chen F, Knopf PM, Kurtis JD, Wu G, **Wu HW***, 2008. I-STOD: A new standardization method for analyzing indirect-ELISA results of a schistosomiasis field study. Parasitology 135: 453-465
49. Ezeamama AE, McGarvey ST, Acosta LP, Zierler S, Manalo DL, **Wu HW**, Kurtis JD, Mor V, Olveda RM, Friedman JF, 2008. The Synergistic Effect of

Concomitant Schistosomiasis, Hookworm, and Trichuris Infections on Children's Anemia Burden. PLoS Negl Trop Dis 2: e245.

50. Du XL, Xu JM, Hou M, Yu RB, Ge JJ, Zhu HS, **Wu HW**, 2009. Simultaneous detection of serum immunoglobulin G antibodies to *Cryptosporidium parvum* by multiplex microbead immunoassay using 3 recognized specific recombinant *C. parvum* antigens. Diagn Microbiol Infect Dis 65: 271-8.
51. Zhang YY, Luo JP, Liu YM, Wang QZ, Chen JH, Xu MX, Xu JM, Wu J, Tu XM, Wu GL, Zhang ZS, **Wu HW***, 2009. Evaluation of Kato-Katz examination method in three areas with low-level endemicity of schistosomiasis japonica in China: A Bayesian modeling approach. Acta Trop 112: 16-22.
52. Tao FF, Yang YF, Wang H, Sun XJ, Luo J, Zhu X, Liu F, Wang Y, Su C, **Wu HW**, Zhang ZS, 2009. Th1-type epitopes-based cocktail PDDV attenuates hepatic fibrosis in C57BL/6 mice with chronic *Schistosoma japonicum* infection. Vaccine 27: 4110-7.
53. Jiz M, Friedman JF, Leenstra T, Jarilla B, Pablo A, Langdon G, Pond-Tor S, **Wu HW**, Manalo D, Olveda R, Acosta L, Kurtis JD, 2009. Immunoglobulin E (IgE) responses to paramyosin predict resistance to reinfection with *Schistosoma japonicum* and are attenuated by IgG4. Infect Immun 77:2051-8.
54. Xu JM, Acosta LP, Hou M, Manalo DL, Jiz M, Jarilla B, Pablo AO, Olveda RM, Langdon G, McGarvey ST, Kurtis JD, Friedman JF, **Wu HW**, 2010. Seroprevalence of cysticercosis in children and young adults living in a helminth endemic community in Leyte, the Philippines. J Trop Med 82(4):646-52.
55. **Wu HW***, Qin YF, Chu K, Meng R, Liu Y, McGarvey ST, Olveda R, Acosta L, Ji MJ, Fernandez T, Friedman JF, Kurtis JD, 2010. High Prevalence of *Schistosoma japonicum* Infection in Water Buffaloes in the Philippines Assessed by Real-Time Polymerase Chain Reaction. Am J Trop Med Hyg, 82: 646-652
56. Shaw JG, Aggarwal N, Acosta LP, Jiz MA, **Wu HW**, Leenstra T, Coutinho HM, Olveda RM, Kurtis JD, McGarvey ST, Friedman JF, 2010. Reduction in hookworm infection after praziquantel treatment among children and young adults in Leyte, the Philippines. Am J Trop Med Hyg 83: 416-21
57. Kurtis JD, Higashi A, **Wu HW**, Gundogan F, McDonald EA, Sharma S, Pondtor S, Jarilla B, Sagliba MJ, Gonzal A, Olveda R, Acosta L, Friedman JF, 2011. Maternal schistosomiasis japonica is associated with maternal, placental and fetal inflammation. Infect Immun. 79: 1254-61.

58. Fabre V, **Wu HW**, Pondtor S, Coutinho H, Acosta L, Jiz M, Olveda R, Cheng L, White ES, Jarilla B, McGarvey ST, Friedman JF, Kurtis JD, 2011. Tissue Inhibitor of Matrix-Metalloprotease-1 Predicts Risk of Hepatic Fibrosis in Human *Schistosoma japonicum* Infection. *J Infect Dis.* 203: 707-14.
59. Lin D, Tian F, **Wu H**, Gao Y, Wu J, Zhang D, Ji M, McManus DP, Driguez HP, Wu G, 2011. Multiple vaccinations with UV-attenuated cercariae in pig enhance protective immunity against *Schistosoma japonicum* infection as compared to single vaccination. *Parasit Vectors* 4(1):103.
60. Liang YJ, Luo J, Lu Q, Zhou Y, **Wu HW**, Zheng D, Ren YY, Sun KY, Wang Y, Zhang ZS, 2012. Gene profile of chemokines on hepatic stellate cells of schistosome-infected mice and antifibrotic roles of CXCL9/10 on liver non-parenchymal cells. *PLoS One* 7:e42490.
61. Tang GX, Zhou HJ, Xu JW, Xu JM, Ji MJ, **Wu HW**, Wu GL, 2012. *Schistosoma japonicum* Soluble Egg Antigens Attenuate IFN-gamma-Induced MHC Class II Expression in RAW 264.7 Macrophages. *PLoS One* 7:e49234.
62. McDonald EA, Kurtis JD, Acosta L, Gundogan F, Sharma S, Pond-Tor S, **Wu HW**, Friedman JF, 2013: Schistosome egg antigens elicit a proinflammatory response by trophoblast cells of the human placenta. *Infect Immun*, 81(3):704-12.
63. Wan C, Liu Y, Tu XM, Zhang YY, Xu JM, Lin DD, Luo JP, Chen F, **Wu HW**, 2013. A cellular automaton model of *Schistosoma japonicum* infection. *Acta Trop* 126, 256-64.
64. Xie SY, Yuan M, Ji MJ, Hu F, Li ZJ, Liu YM, Zeng XJ, Chen HG, **Wu HW**, Lin DD, 2014. Immune responses result in misdiagnosis of *Schistosoma japonicum* by immunodiagnosis kits in egg-positive patients living in a low schistosomiasis transmission area of China. *Parasit Vectors* 7(1):95
65. Xu J, Zhang H, Chen L, Zhang D, Ji M, **Wu H**, Wu G, 2014. *Schistosoma japonicum* infection induces macrophage polarization. *Journal of biomedical research* 28, 299-308.
66. Raj DK, Nixon CP, Nixon CE, Dvorin JD, DiPetrillo CG, Pond-Tor S, **Wu HW**, Jolly G, Pischel L, Lu A, Michelow IC, Cheng L, Conteh S, McDonald EA, Absalon S, Holte S, Friedman JF, Fried M, Duffy PE, Kurtis JD, 2014. Antibodies to PfSEA-1 block parasite egress from RBCs and protect against malaria infection. *Science* 344, 871-877.
67. Jiz MA, **Wu H**, Olveda RM, Jarilla B, Kurtis JD, 2015. Development of Paramyosin as a Vaccine Candidate for Schistosomiasis. *Front Immunol* 6, 347.

68. Yang J, Fu Z, Hong Y, **Wu H**, Jin Y, Zhu C, Li H, Lu K, Shi Y, Yuan C, Cheng G, Feng X, Liu J, Lin J, 2015. The Differential Expression of Immune Genes between Water Buffalo and Yellow Cattle Determines Species-Specific Susceptibility to *Schistosoma japonicum* Infection. PLoS One 10, e0130344.
69. Olveda RM, Acosta LP, Tallo V, Baltazar PI, Lesiguez JL, Estanislao GG, Ayaso EB, Monterde DB, Ida A, Watson N, McDonald EA, **Wu HW**, Kurtis JD, Friedman JF, 2016. Efficacy and safety of praziquantel for the treatment of human schistosomiasis during pregnancy: a phase 2, randomised, double-blind, placebo-controlled trial. Lancet Infect Dis 16, 199-208.
70. Luo J, Liang Y, Kong F, Qiu J, Liu X, Chen A, Luxon BA, **Wu HW**, Wang, Y, 2017. Vascular endothelial growth factor promotes the activation of hepatic stellate cells in chronic schistosomiasis. Immunol Cell Biol 95, 399-407.
71. **Wu HW**, Fu ZQ, Lu K, Pond-Tor S, Meng R, Hong Y, Chu K, Li H, Jiz M, Liu JM, Hou M, Park S, Lin JJ, Kurtis JD, 2017. Vaccination with recombinant paramyosin in Montanide ISA206 protects against *Schistosoma japonicum* infection in water buffalo. Vaccine 35, 3409-15.
72. Abioye AI, Park S, Ripp K, McDonald E A, Kurtis JD, **Wu H**, Pond-Tor S, Sharma S, Ernerudh J, Baltazar P, Acosta LP, Olveda RM, Tallo V, Friedman JF, 2018. Anemia of Inflammation during Human Pregnancy Does Not Affect Newborn Iron Endowment. J. Nutr 148, 427-36, doi:10.1093/jn/nxx052
73. McDonald EA, Stuart R, Joshi A, **Wu HW**, Olveda RM, Acosta LP, Tallo V, Baltazar PI, Bailey JA, Kurtis JD, Friedman JF, 2018. Endotoxin at the Maternal-Fetal Interface in a Resource-Constrained Setting: Risk Factors and Associated Birth Outcomes. Am J Trop Med Hyg 99, 495-501
74. Abioye AI, McDonald EA, Park S, Ripp K, Bennett B, **Wu HW**, Pond-Tor S, Sagliba MJ, Amoylen AJ, Baltazar PI, Tallo V, Acosta LP, Olveda RM, Kurtis JD, Friedman JF, 2019. Maternal anemia type during pregnancy is associated with anemia risk among offspring during infancy. Pediatr Res. 2019/05/28 E pub.
75. Abioye, AI, McDonald EA, Park S, Joshi A, Kurtis JD, **Wu H**, Pond-Tor S, Sharma S, Ernerudh J, Baltazar P, Acosta LP, Olveda RM, Tallo V, Friedman JF, 2019. Maternal, placental and cord blood cytokines and the risk of adverse birth outcomes among pregnant women infected with *Schistosoma japonicum* in the Philippines. PLoS Negl Trop Dis 13, e0007371.

OTHER PEER-REVIEWED PUBLICATIONS

1. PJ Brindley, M Remireize, GL Wu, **HW Wu**, ST McGarvey, 1995. Networking on schistosomiasis japonica. *Parasitology Today* 11(5):1
2. **Haiwei Wu** and Guanling Wu, 1996. Research on immunity of reinfection in schistosomiasis. *Chinese Journal of Parasitology and Parasitic Diseases* 14(1): 68
3. SHAN Hao, GE Jianjun and **WU Hai-Wei***, 2007. [Current advances on research of *Cryptosporidium hominis*]. *Chinese Journal of Pathogen Biology.*;2:309-12
4. Lin D, **Wu H**, Wu G, Zhou XN, 2007. Review and evaluation on optimal combined strategies for schistosomiasis control in China. *Chin J Schisto Control* 19:234-37
5. Willingham AL, 3rd, **Wu HW**, Conlan J, Satrija F, 2010. Combating *Taenia solium* cysticercosis in Southeast Asia an opportunity for improving human health and livestock production. *Adv Parasitol*, 72:235-66.
6. Tu X, Luo J, Zhang Y, Xu J, Zhou M, Zheng Y, Chen F, Wu G, **Wu H ***, 2009. A novel data transformation method for serologic diagnosis of schistosomiasis japonica. *IEEE*, Digital Object Identifier 10.1109/ICBBE .2009.5162217
7. Yun Liu, Cheng Wang, Kai Chu, Xiaoli Xu, **Hai-Wei Wu**. A Cellular Automaton Model for the Transmission Dynamics of Schistosomiasis. *Bioinformatics and Biomedical Engineering (ICBBE)*, 2010 4th International Conference. 10.1109/ICBBE.2010.5514785
8. **Wu HW**, Ito A, Ai L, Zhou XN, Acosta LP, Lee Willingham A III, 2017. Cysticercosis/Taeniasis Endemicity in Southeast Asia: Current Status and Control Measures. *Acta Trop* 165, 121-32

ABSTRACTS

1. Poster, the 56th ASTMH meeting, Philadelphia, PA, USA, Nov 4-8, 2007. Sero-prevalence of cysticercosis in Children, adolescents and adults living in a schistosomiasis endemic community in Leyte, the Philippines.
2. Poster, the 57th ASTMH meeting, New Orleans, LA, USA, Dec3-8, 2008. High prevalence of *S. japonicum* infection in Philippine water buffalos assessed by qPCR.
3. Poster, the 63th ASTMH meeting, New Orleans, LA, USA, Nov2-6, 2014. High schistosomiasis infection rate among water buffalos in the Philippines.
4. Podium presentation in Scientific Session, 65th ASTMH annual meeting, Nov13-17, 2016 in Atlanta, GA. #1224. Recombinant paramyosin in Montanide ISA206 protects water buffalo from *Schistosoma japonicum* infection.
5. Poster, the 66th ASTMH annual meeting, Baltimore, MD, Nov5-9, 2017. #LB-5407. Recombinant paramyosin is not a target for anaphylactic IgE in human schistosomiasis.

6. Poster, the 67th ASTMH meeting, New Orleans, LA, USA, Oct28-Nov1, 2008. #LB-5580. Functional study of *Schistosoma japonicum* fructose-1-6-bisphosphate aldolase.

INVITED PRESENTATIONS

Regional:

1. Guest Lecture, The Sustaining Education Program for Medical Workers, Jiangsu Department of Public Health. Major presentation, JinJiang, Jiangsu, China, Dec6, 1999, Title “ the Application of Molecular Biology in Medicine”
2. Guest Lecture, Physician Research Training Series, The 4th People’s Hospital in Suzhou, Suzhou, Jiangsu, Sep26, 2003, Title “Medical Research Methology”.
3. Guest Lecture, Postgraduate Training Program, the Jiangsu People’s Hospital, Nanjing, China, Jul, 2004, Title;” the Basic Theory and Medical Application of PCR”
4. Guest Lecture, Physician Research Training Series, the Jiangsu People’s Hospital, Nanjing, China, Apr, 2005, Title, “Research Ethics and IRB”.

National:

1. Major Presentation, Annual Meeting of the Chinese Association of Preventive Medicine, Sponsored by CAPM, Guilin, Guaugxi, Nov23, 1997, Title “Antigen Specific IgG4 and Its Role in Schistosomiasis japonica Reinfection”.
2. Podium presentation in late breaker session. 51st ASTMH meeting, Sponsored by ASTMH, Atlanta, USA, Nov11-13, 2001, Title- “Protective effects of Peptide Mimics”.
3. Presentation, Annual Meeting of the Chinese Association of Parasitology, Sponsored by CAP, Shanghai. Aug22, 2003. Title “Review on Journals about Parasitology”.
4. Podium presentation in Scientific Session. 62nd ASTMH meeting, Sponsored by ASTMH. Washington DC, USA, Nov13-17, 2013. IgE anti-Sj6-8 antibodies predict resistance to reinfection with *Schistosoma japonicum*.

International:

1. The Forum of advances in schistosomiasis control, sponsored by MOH of China, Wuxi, Jiangsu, China, “Recent Advances in the Immunology and diagnosis of schistosomiasis japonica”. Sep 23-25, 2003.
2. Invited discussion panel, Trilateral Seminar on R&D Policies Related to Emerging and Re-emerging Infectious Diseases, Sponsored by USNSF & NSFC, Boston University, USA, Modeling and Simulation, Dec5, 2005.
3. Major presentation, International Symposium on Schistosomiasis, Sponsored by RNAS., Bohol Beach Club, Bohol, the Philippines. “Agreement analysis of stool examination using Kato-Katz thick smear method in different schistosomiasis japonica endemic areas in China”. September11-15, 2006.

4. Guest lecture, ShVRI S&T updates, "Schistosomiasis Vaccine development". Sponsored by Shanghai Veterinary Research Institute, Shanghai, China, Jun12, 2015.
5. Guest lecture, "Schistosomiasis control and schistosome life cycles". Sponsored by Jiangsu Institute of Parasitic Disease, Wuxi, China, Aug2, 2017.
6. Invited session speaker, 1st Forum on Tropical Medicine, BRTMA, Haikou, Hainan, China. "Global health in tropical medicine: developed at the center for international health research and exported to the world". Oct18-20, 2018.
7. Invited speaker, "Schistosomiasis control in animals: a tale of two countries", International Schistosomiasis Research Forum for Local Stakeholders, Manila, The Philippines, March 12-13, 2019.

GRANTS

Submitted:

1. NIH/NIAID R01 (MPI: Hannah Wu)
"Vaccine strategies to control schistosomiasis pathogens and bovine-to-human transmission"

Ongoing

1. NIH/NICHD R01HD095562 (PI: Friedman)
"Phase II PK/PD driven dose finding trial of praziquantel in children under four"
9/5/2018-6/30/2023, \$2,452,017
Role: Co-investigator
2. NIH/NICHD R01HD092301 (PI: Kurtis)
"One Health- Vaccine Development for Bovine and Human Schistosomiasis"
8/21/2017-5/31/2022,
Role: Lifespan Sub-contract PI, \$2,340,562
3. NIH/NIAID R01AI127699-01 (PI: Kurtis)
"Tfh Responses to Novel Vaccine Candidates and Protection from Pediatric *Falciparum Malaria*", \$3,385,048
8/11/2017-7/31/2022
Role: Co-investigator
4. NIH/NIAID P50AI098481 (PI: Olveda)
"Schistosomiasis vaccine development and morbidity throughout the life course"
8/1/12-7/31/2019(NCE), \$1,923,748
Role: Co-investigator

Completed

1. NIH/NIAID R01AI101274 (PI: Kurtis)

- “*Schistsome vaccines*”
5/10/2013 – 4/30/2017, \$1,634,552
Role: Co-investigator
2. NIH/NIAID R21 R21AI097963-01A1 (PI: Kurtis)
“*Adjuvant and Dose Optimization of Paramyosin based Vaccines for Schistosmiasis*”
8/1/2012 – 7/31/2014, \$359,599
Role: Co-investigator
 3. NIH/NIAID R56AI091753-01A1 (PI: Kurtis)
“*Schistsome vaccines*”
7/15/2011- 6/30/2013, \$504,884
Role: Co-investigator
 4. NIH/NIAID U01AI066050 (PI: Friedman)
“*S. japonicum and Pregnancy Outcomes: an RCT*”
4/6/2006-3/31/2014, \$4,730,429
Role: Research Associate
 5. NIH/NIAID 1R01AI076353 (PI: Kurtis)
“*Targeted Vaccine Development for Pediatric Falciparum Malaria*”
9/2008-9/2013, \$2,470,732;
Role: Research Associate
 6. NIH/NIAID 1R01AI1048123 (PI: Kurtis)
“*Puberty, Immunity and Malnutrition in S. japonicum*”
7/01/2001-9/29/2005, \$2,961,769
Role: Research Associate
 7. DST (the “Shi Wu” Tackle Key Problem Plan) 2004BA718B50
“*Evaluation of schistosomiasis endemic using serum prevalence profiling and the development of S.japonicum diagnosis platform*”
2004–2006, RMB1,300,000
Role: Principal Investigator
 8. The Jiangsu Key Lab of Modern Pathogen Biology Fund
“*The development of an immuno-diagnostic method of C. parum*”
2004-2006, RMB20,000
Role: Principal Investigator
 9. The Jiangsu Preventive Medicine Fund Y200410
“*The sero-epidemiology model of schistosomiasis japonica*”
2004-2005, RMB10,000

Role: Principal Investigator

10. Nanjing Scientific Development Fund NJ03-6
 "Epitope analysis of M and S Protein of SARS",
 2003-2005, RMB60,000
 Role: Principal Investigator
11. Natural Science Foundation of China NSFC:39800136
 "Research on schistosomiasis japonica vaccine development: screening with phage displayed library"
 1997-2000, RMB150,000
 Role: Principal Investigator
12. The Education Committee Project of Jiangsu Province 98KJBZ310002
 "schistosomiasis japonica vaccine development with library screening strategy"
 1998-1999, RMB40,000
 Role: Principal Investigator
13. European Committee Project ERBIC18970243
 "Schistosome Vaccine Development"
 1997-1999, EU150,000
 Role: Research Associate
14. Chinese Premier Foundation
 "Schistosomiasis japonica Vaccine Development"
 1995-1999, RMB 900,000
 Role: Research Assistant
15. Program for Training Masters Students in TDR Targeted Diseases in China
 "The immune responses and reinfection among young people from S. japonicum endemic area in China"
 1993-1994, \$5,000
 Role: Trainee/Principal Investigator
16. Natural Science Foundation of China NSFC:39270605
 "Human isotype specific antibody response and susceptibility to schistosomiasis japonica",
 1992-1994, RMB90,000
 Role: Research Assistant

PATENT

SCHISTOSOMA VACCINE

Jonathan D. Kurtis, Mario Jiz, **Haiwei Wu**, Sunthorn Pond-Tor

(<http://appft.uspto.gov/netacgi/nph->

[Parser?Sect1=PTO1&Sect2=HITOFF&d=PG01&p=1&u=%2Fnethtml%2FPTO%2Fsrchnum.html&r=1&f=G&l=50&s1=%2220120128721%22.PGNR.&OS=DN/20120128721&RS=DN/20120128721\)](#)

UNIVERSITY TEACHING ROLES

1. Supervise visiting scholar: Lei Zhang, Jun-Dec, 2018
2. Supervise visiting scholar: Sha Zhou, Sep2017 – Aug 2018
3. Guest Instructor: Chinese Medicaese and Medical Interview in Chinese, BIOL 6501; 2013, 2018
4. Supervise visiting scholar: Fang Tian, Sep2016 – Mar 2017
5. Supervise summer student: Youngeun Choi, Jul-Sep2016
6. Supervise visiting scholar: Yang Hong, Nov2015 - Nov2016
7. Supervise visiting scholar: Wei Li, Sep2013, Feb2014
8. Faculty sponsor for SRA students: Jennifer Lee, 2012-1013
9. Co-supervise Post-docs: Dipak Raj, Emily McDonald, 2010-2012
10. Thesis Reader, MPH student (Danielle Eskens), 2009 – 2010
11. Seminar Leader, First Readings, 17 students, Aug30, 2010; 22 students, Sep3, 2011