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College of Public Health and Health Professions
Emerging Pathogens Institute
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PROFESSIONAL EXPERTISE AND RESEARCH INTERESTS

- Environmental epidemiology, risk assessment, and dynamic modeling water- and vector-borne infectious diseases
- Environmental determinants and control of neglected parasitic diseases
- Health impact of water quality, sanitation, and food safety
- Global environmental health

EDUCATION

- Ph.D. University of California, Berkeley (2003). Environmental Health Sciences
Minors – Epidemiology and Biostatistics
Thesis: *A Spatio-temporal Modeling of Schistosomiasis Transmission Dynamics and Control*
- M.S. University of California, Berkeley (1999). Environmental Health Sciences
- M.S. Southwest China Normal University (1992). Zoology
- B.S. Southwest China Normal University (1989). Biology

PROFESSIONAL EXPERIENCE

- 12/2012 – present Visiting Professor, Institute of Microbiology and Epidemiology, State Key Laboratory of Pathogens and Biosecurity, Academy of Military Medicine, China
- 7/2012 – present Associate Professor, Department of Environmental and Global Health, College of Public Health Professions, and Emerging Pathogens Institute, University of Florida

- 5/2007 – 6/2012 Assistant Professor, Environmental Sciences Graduate Program, The Ohio State University
- 10/2006 – 6/2012 Assistant Professor, College of Public Health, The Ohio State University.
- 1/2006 – 9/2006 Lecturer, School of Public Health, University of California, Berkeley
- 7/2004 – 6/2007 Visiting Professor, Center for Public Health Application of Remote Sensing/Geographical Information Systems, Institute of Remote Sensing, Chinese Academy of Science
- 7/2004 – 6/2007 Guest Professor, Sichuan Center for Disease Control and Prevention, Chengdu, China
- 7/2004 – 9/2006 Assistant Researcher, School of Public Health, University of California at Berkeley
- 12/2003 – 6/2004 Postdoctoral Fellow, School of Public Health, University of California at Berkeley

HONOR & AWARDS

- 10/2010 The 2nd Place Award of Science and Technology Progress, Sichuan Provincial Government, Sichuan, P.R. China
- 9/2002 – 5/2003 Water G. & Julia Parker Scholarship, University of California at Berkeley
- 1/2003 Travel Award, Graduate Division, University of California at Berkeley. International Symposium on Health Sciences Simulation, Orlando, Florida, USA
- 10/2001 – 9/2002 Russel M. Grossman Award for Doctoral Student Research, School of Public Health, University of California at Berkeley
- 10/2000 – 9/2001 Marie Louise Ellert Scholarship, School of Public Health, University of California at Berkeley
- 12/1998 The 2nd Place Award of National Science and Technology Progress, Ministry of Science and Technology, P.R. China

12/1997 The 3rd Place Award of Science and Technology Progress,
Sichuan Provincial Government, Sichuan, P.R. China

PROFESSIONAL AFFILIATION

- American Public Health Association
- American Society of Tropical Medicine and Hygiene
- International Society of Infectious Diseases

COURSES DEVELOPED/TAUGHT

Principles of Environmental Health
Current Topics Global Environmental Health
Public Health in Developing Countries
Modeling Epidemiology and Control of Infectious Diseases in Humans and Animals
Water and Human Health Risk
Introduction to Foodborne Illness
Environmental and Occupational Health in Agricultural Settings

MAJOR SERVICES

- 7/2013 – present, PHHP Curriculum Committee, University of Florida
- 3/2013 – present, Faculty Advisory Committee, Florida Climate Institute
- 1/2013 – present, Advisory Committee, Florida Department of Health
- 3/2012 – present, Guest Associate Editor, *PLoS NTDs*
- 1/2011 – present, Associate Editor, *BMC Public Health*
- 8/2011 – present, Advisory Committee Member, *Public health and tropical Disease Control Program* for Jiangmen City, Guangdong Province, China
- 6/2011 – present, Advisory Committee Member, *Innovative Strategies for Sustainable Control of Asian Schistosomiasis and Other Helminth Zoonoses through Socio-Ecosystem-Based Interventions in Six Asian Countries(Cambodia, China, Laos, Thailand, The Philippines, Vietnam)* , Funded by IDRC, Canada
- 3/2011 – 6/2012 , Governance Committee of New Undergraduate Program on Environmental Public Health at the Ohio State University

- 8/2011 – 6/2012, PHPID (Public Health Preparedness for Infectious Diseases at the Ohio State University) Strategic Priority Committee
- 9/2009 – 5/2010 – Steering Committee of Internationalization of Undergraduate Program by Office of International Affairs, the Ohio State University
- 10/2008 – 10/2010, PHPID International Congress Committee, The Ohio State University
- The ASPH/CDC Allan Rosenfield Global Health Fellowship Review Committee (2007)
- 10/2006 – 6/2012, Graduate Faculty Representative on Doctoral Candidacy Exams, The Ohio State University Graduate School
- 6/2007, Charter member, Ohio State University Targeted Investment in Excellence (TIE) program in Public Health Preparedness (PHP) for Infectious Diseases.
- Spring 2007, Staff Award Committee, College of Public Health, The Ohio State University
- 1/2007 – 6/2012, Chair, Graduate Student Admission Committee at Division of Environmental Health Sciences, College of Public Health, The Ohio State University
- Reviewer of manuscripts for the following journals
 - *New England Journal of Medicine*
 - *BMJ Open*
 - *BMC Public Health*
 - *Acta Tropica*
 - *Journal of Microbial Ecology*
 - *Journal of the American Water Resources Association*
 - *Journal of Environmental Science and Technology*
 - *American Journal of Tropical Medicine and Hygiene*
 - *Transactions of the Royal Society of Tropical Medicine and Hygiene*
 - *PLoS Medicine*
 - *PLoS Neglected Tropical Diseases*
 - *PLoS One*
 - *Bulletin of the World Health Organization*
 - *Tropical Medicine and International Health*
 - *Environmental Engineering Science*

- *International Journal of Parasitology*
- *Parasitology International*
- *Journal of Biological Systems*
- *Journal of Parasitoses and Infectious Disease*
- *Geographical Information Sciences*
- *GeoJournal*

FUNDED RESEARCH

Active:

- Livestock movements and disease epidemiology in the Chad Basin: modeling risks for animals and humans (Subaward PI; 10/2010 – 9/2015; NSF/EEID Program; PI: Garabed)
- Minimizing transmission of AMR from wildlife to livestock: a research, prevention, and outreach strategies (Subaward PI; 9/1/2011 – 8/30/2014; USDA/NIFSI Program; PI: LeJeune)
- Ensuring safe drinking water in Lake Erie: quantifying extreme weather impacts on cyanobacteria and disinfection byproducts (Subaward PI; 6/1/2012 – 5/31/2015; EPA STAR Program; PI: Lee)
- Spatio-temporal pattern of cholangiocarcinoma and risk factors in Thailand (PI; 3/1/2012 – 2/28/2014, American Society of Cancer)
- Population density, neighborhood-level sanitation access, and health in urban Maputo (Co-PI; start date: Spring 2014, USAID (Prime through LSHTM); UFPI: Rheingans)

Pending

- Optimizing surveillance of parasitic diseases in low- and middle-income countries (NIH, R01, PIs: Remais, Liang)
- Identifying risk factors for zoonotic swine influenza virus transmission in confined animal feeding operations, Mainland China (NIH, R01, PI: Gray)
- Analytical methods for estimating the joint climatological-social drivers of water quality and supply in disparate tropical zones (Sub-award PI, Prime: NSF through Emory University)

Completed:

- The Socio-Environmental Determinants of Schistosomiasis Re-emergence (Sub-award PI; 4/2007- 3/2012; NIH/NIAID; Total funded amount: \$1,672,060; Total sub-award: \$ 260,862)
- The global impact of terrestrial surface waters on the distribution of water-related infectious diseases (PI: Liang; 10/2008-9/2011, CWC/PHPID, The Ohio State University; total funded amount: 100,000)

- Pilot study of livestock movements and disease epidemiology in the Chad basin : modeling risks for animals and humans (PI : Garabed ; 9/2009 – 8/2011, TIE, The Ohio State University ; Total funded amount : \$100,000 ; Co-PI)
- Livestock movements and disease transmission in the Chad Basin : modeling risks for animals and humans (PI: Moritz ; 10/2009 – 09/2011, IPR, The Ohio State University; Total funded amount: \$ 41,000)
- Pilot Testing: Epidemiological surveillance and investigation of illness reported by neighbors of biosolids land application and other soil amendments (PI: Liang; 1/2009 – 12/2010; Water Environment Research Foundation via Franklin County Board of Health; Total funded amount: \$129,000)
- The influence of environmental change on schistosomiasis transmission in the Poyang Lake region (PI: Liang; 12/2007 – 11/2009, TIE, The Ohio State University: Total funded amount: \$100,000)
- Local strategies for schistosomiasis control (PI: Spear; 6/2002 – 5/2007, NIH/NIAID, Researcher and Project Manager)

LIST OF BOOKS, PUBLISHED PAPERS, AND MANUSCRIPTS IN PRESS & UNDER REVIEW (c – Corresponding author; E– Equally-contributed first author; s – student/postdoc advisee)

Peer-reviewed manuscripts in press/under review

1. **Liang, S.**, Yang, C.H., Zhong, B., Guo, J.G., Remais, J. (2013). Surveillance of a neglected tropical disease in China: schistosomiasis in China's evolving infectious disease surveillance systems. *Acta Tropica* (under review)
2. Convertino, M., **Liang, S.** (2013). Food safety? A supply chain matter: probabilistic risk model based on the agro-food trade network. (under review)
3. Li, Q., Li, Y., Zhang, Q., Chen, Y.D., **Liang, S.**, Wang, D.D., Gao, H.W., Wei, L., Qian, Q., Li, H.Z., Li, X., Zheng, C.J., Yang, H., Shi, T., Fang, L.Q., de Vlas, S., Cao, W.C., (2013). Surveillance on soil-transmitted helminth infections and their influencing factors in China. *PLoS NTDs* (in press)
4. Zheng, N.C., Liu, Y.H., Tian, J., Liang, B.N., Yang Y., Fang, Y.Y., **Liang, S.** (2013). A cross-sectional survey and risk factors of *Clonorchis sinensis* infections of humans in Jiangmen, Pearl Delta Region of China. *Transactions of the Royal Society of Tropical Medicine and Hygiene* (under review)
5. Fang, Y., Carlton, E., Ruan, C.Y., Zheng, N.C., Spear, R.C., **Liang, S.**(2013). Changing epidemiology of soil-transmitted helminthes and clonorchiasis in southern China. (under review)
6. Wang, J., Li, H.Z., Chen, Y.D., Tang, L.H., Yang, Y., **Liang, S.** (2013). Socio-environmental risk factors of re-infection of soil-transmitted helminthes in China. *PLoS NTDs* (under review)

7. Yang, K., Xu, J.F., Zhang, J.F., Li, W., **Liang, S.** (2013). Establishment and application of schistosomiasis early warning index (SEWI) in the lower Yangtze River Region of Jiangsu, China (under review)
8. Zhou, Y.B., **Liang, S.**, Wang, Q., Gong, Y., Nie, S., Nan, L., Yang, A.H., Liao, Q., Song, X.X., Jiang, Q.W. (2013). Identifying high- or low-risk areas of HIV-, HCV- and co-infections among drug users in a national methadone maintenance treatment program in Southwest China (Under review)
9. Djaouda, M., Njine, T., Liang, S., Cake, Bouba, Togouet, S.H., Menye, D.E., Nola, M. (2013). Bacteriological quality of well water in Caroua, North Cameroon (Under review)

Peer-reviewed publications

10. Zhou, Y. B., **Liang,S.**, Chen, G.X., Jiang, Q. W. (2013) Spatio-temporal variations of *Schistosoma japonicum* distribution after an integrated national control strategy: A cohort in a marshland area of China. *BMC Public Health*, 2013, 13:297 [PMID: 23556428]
11. Cheung, M.Y., **Liang, S.**, Lee, J. (2013) Toxin-producing cyanobacteria in freshwater: a review of the problems, impact on drinking water safety, and efforts for protecting public health. *Journal of Microbiology*, 51(1): 1-10
12. Moore, J. L., **Liang, S.**, Akullian, A., Remais, J. (2012). Cautioning the use of degree-day models for climate change projections: predicting the future distribution of parasite hosts in the presence of parametric uncertainty. *Ecological Applications*, 22(8): 2237-2247
13. Zhou, Y.B., **Liang, S.**, Jiang, Q.W. (2012). Factors impacting on progress towards elimination of transmission of schistosomiasis japonica in China. *Parasites & Vectors*, 5(275):1-7 (PMCID: PMC3519747)
14. Qian, M.B., Chen, Y.D., **Liang, S.**, Yang, G.J., Zhou, X.N. (2012). The global epidemiology of clonorchiasis and its relation with cholangiocarcinoma. *Infectious Diseases of Poverty*, 1(4): 1-11
15. Carlton E, **Liang S^c**, McDowell J, Li H, Luo W, Remais J (2012). Regional disparities in the burden of disease attributable to unsafe water and sanitation in China. *Bulletin of World Health Organization*, 90(8):578-87
16. Gao, H.W^s., Wang, L.P^e., **Liang, S^e**., Liu, Y.X., Tong, S.L., Wang, J.J., Li, Y.P., Wang, X.F., Yang, H., Ma, J.Q., Fang, L.Q., Cao, W.C. (2012). Change in rainfall drives malaria re-emergence in Anui Province, China. *PLoS One*, 7(8): e43686
17. Yang, K^s., Lejeune J, Alsdorf. D, Lu, B., Shum CK, **Liang S^c** (2012). Global distribution of outbreaks of water-associated infectious diseases. *PLoS NTDS*; 6(2):e1483. (PMCID:PMC3279334)

18. **Liang, S.**, Lou, Y. (2012) On the dependence of population size upon random dispersal rate. *Discrete and Continuous Dynamical Systems (Series B)*, 17(8): 2771-2788
19. Fang LQ, Wang LP, de Vlas SJ, **Liang S**, Tong SL, Li YL, et al. (2012) Distribution and Risk Factors of 2009 Pandemic Influenza A (H1N1) in Mainland China. *Am J Epidemiol.* 175(9):890-7.
20. Gong P, **Liang S**, Carlton EJ, Jiang Q, Wu J, Wang L, Remais, J. (2012) Urbanisation and health in China. *The Lancet.* 379(9818):843-52.
21. Spear RC, Seto EY, Carlton EJ, **Liang S**, Remais JV, Zhong B, Qiu, D. (2011) The challenge of effective surveillance in moving from low transmission to elimination of schistosomiasis in China. *Int J Parasitol.* 41(12):1243-7
22. Sithithaworn, P., Andrews, R.H., Van De, N., Wongsarroj, T., Siunon, M, Odermatt, P., Nawa, Y., **Liang, S.**, Brindley, P., Sripa, B. (2011). The current status of opisthorchiasis and clonorchiasis in the Mekong Basin. *Parasitology International, Aug 25 [PMID: 21893213]*
23. Zhou, Y.B^s., **Liang, S.**, Chen, G.X., Rea, C., Cui, D.Y., He, Z.Gui., Zhang, Z.J., Wei., J.G., Zhao, G.M. , Jiang, Q.W. (2011). An integrated strategy for transmission control of *Schistosoma japonicum* in a marshland area of China: findings from a five-year longitudinal survey and mathematical modeling. *American Journal of Tropical Medicine and Hygiene*, 85(1): 83-88 (PMCID: PMC3122349)
24. Qian, M., Zhou, X.N., Fang, Y.Y., **Liang, S.**, Chen, Y. (2011). Strengthening research work on clonorchiasis in China. *Chinese Journal of Parasitology and Parasitic Diseases*, 29(3): 211 – 214
25. Spear, R., **Liang, S**^c.(2011) Mathematical modeling as an aid in developing strategy for sustainable interruption of *S. japonicum* transmission in the hilly and mountainous regions of China. *Journal of Schistosomiasis Control*, 23(3):231-236
26. Zhong, B., Wu, Z. Chen, L., **Liang, S.** Dong, X., Qiu, D. Strengthening schistosomiasis control achievements in hilly regions of China. 2011, *Journal of Schistosomiasis Control*, 23(1):10-13
27. Fang, L.Q^e., Wang , X.J^e., **Liang, S**^e., Li, Y.L., Song, S.X., Zhang, W.Y., Qian, Q., Li, Y.P., Wei, L., Wang, Z.Q., Yang, H., Cao, W.C. (2010). Sptatio-temporal trend and climatic factors of hemorrhagic fever with renal syndrome epidemic in Shandong Province, China. *PLoS NTDs*, 4(8):e789

28. Zhang, J., Zhu, T., Mauzerall, D., **Liang, S.**, Ezatti, M., Remais, J. (2010). Environmental Health in China: progress towards clear air and safe water. *The Lancet*, 375(9720):1110-1119
29. Fang, L.Q., Zhao, W.J., de Vlas, S.J., Zhang, W.Y., **Liang, S.**, Looman, C.W.N., Yan, L., Wang, L.P., Ma, J.Q., Feng D., Yang H., Cao, W.C. (2009). Spatiotemporal dynamics of hemorrhagic fever with renal syndrome in Beijing, a newly-established endemic region. *Emerging Infectious Disease*, 15(12):2043-5
30. Fang, L.Q., de Vlas, S.J., Feng, D., **Liang, S.**, Xu, Y.F., Zhou J.P., Richardus, J.H., Cao, W.C. (2009). Geographical spread of SARS in mainland China. *Tropical Medicine & International Health*, 14(Suppl. I): 1-7
31. Liu, Y.X., Feng, D., Suo, J.J., Xing, Y.B., Liu, G., Liyu, L.H., Xiao, H.J., Jia, N., Gao, Y., Yang, H., Zuo, S.Q., Zhang, P.H., Zhao, Z.T., Min., J.S., Peng, P.T., Ma, S.B., **Liang, S.**, Cao, W.C. (2009). Clinical characteristics of the autumn-winter type scrub typhus cases in south of Shandong Province, Northern China. *BMC Infectious Disease*, 9:82
32. Zhang, W., Wang, L., Fang, L., Ma, J., Xu, Y., Jiang, J., Wang, J., **Liang, S.**, Yang, H., Cao W. (2008). Spatial analysis of malaria in Anhui Province, China. *Malaria Journal* 7(1): 206
33. Tian, L.W., Bi, Y., Ho, S.C., Liu, W.J., **Liang, S.**, Goggins, W. B., Chan, E.Y.Y., Zhou, S., Sung, J.J.Y. (2008) One-year delayed effect of fog on malaria transmission: a time-series analysis in the rain forest areas of Mengla County, south-west China. *Malaria Journal*, 7(110):1-9
34. Fang, L.Q.^e, de Vlas, S.J.^e, **Liang, S.**^e, Looman, C. W., Gong, P., Xu. B., Yan, L., Yang, H., Richardus. J.H., Cao, W.C. (2008) Environmental factors contributing to the spread of H5N1 avian influenza in mainland China. *PLoS One*, 5(3):e2268
35. Zhong, B., **Liang, S.**^c, Xu, F.S., Wu, Z.S., Yang, C.H., Chen, L., Zhang, Y., Meng, X., Qiu, D.C., Spear, R.C. (2008). Risk factors associated with transmission of schistosomiasis in mountainous regions and implications for control. *Chinese Journal of Preventive Medicine*, 42(8):565-568
36. **Liang, S.**^c, Spear, R.C. (2008). Model-based insights into multi-host transmission and control of schistosomiasis. *PLoS Medicine*, 5(1):e23
37. Remais, J., **Liang, S.**, Spear, R.C. (2008). Coupling hydrologic and infectious disease modeling to explore regional differences in schistosomiasis transmission in southwestern China. *Environmental Science & Technology*, 42(7):2643-2649

38. Eisenberg, J., Desai, M., Levy, K., Bates, S, **Liang, S.**, Naumoff, K., Scott, J. (2007). Environmental determinants of infectious disease: A framework for tracking causal links and guiding public health research. *Environmental Health Perspectives*, 115(8): 1216-1223
39. Fang, L.Q., de Vlas, S.J., Richardus, J.H., **Liang, S.**, Gong, P., Cao, W.C. (2007). Spatiotmporal distribution and environmental factors of highly pathogenic avian influenza H5N1 in mainland China. *Tropical Medicine & International Health*, 12(1): 160-161
40. Seto, E., Lee, E., **Liang, S.**, Zhong, B. (2007). Individual and village-level study of water contact exposure patterns and *Schistosoma japonicum* infection in mountainous rural China. *Tropical Medicine and International Health*, 12(10): 1199-1209
41. **Liang, S.**, Seto, E., Remais, J., Zhong, B., Yang, C., Hubbard, A., Davis, G., Gu, X., Qiu, D., Spear, R.C. (2007) Environmental effects on parasitic disease transmission exemplified by schistosomiasis in Western China. *Proc Natl Acad Sci USA*. **104** (17):7110-7115
42. Spear, R.C., Seto, E., Remais, J., Carlton, E.J., Davis, G., Qiu, D., Zhou, X., **Liang, S.** (2006) Fighting waterborne infectious diseases. *Science*, 314, 1081-3.
43. Fang, L., Zhong, S., **Liang, S.**, de Vlas, S.J., Feng, D., Han, X., Yan, L., Yang, H., Zhao, W., Cao, C., Gong, P., Richardus, J.H., Xue, Y., Cao, W. (2006) Studies on applications of remote sensing and geographical information system in surveillance and prediction of highly pathogenic avian influenza. *Asia-Pacific Space Outlook*, 9:17-22
44. Fang, L^s., Yan, L^s., **Liang, S.**, de Vlas, S.J., Feng, D., Han, X., Zhao, W., Xu, B., Bian, L., Yang, H., Gong, P., Richardus, J.H., & Cao, W. (2006) Spatial analysis of hemorrhagic fever with renal syndrome in China. *BMC Infectious Disease*, 6, 77~
45. Zhong, B., **Liang, S.**, Zhang, Y., Lai, Y.H., Chen, L., Yin, H.Z., Zhao, Y.M., Lu, J.Q., & Qiu, D.C. (2006) Water exposure modes and times of different populations in mountainous schistosomiasis endemic areas near Qionghai Lake. *Chinese Journal of Preventive Medicine*, 40, 239-243.
46. Gong, P., Xu, B., & **Liang, S.** (2006) Remote sensing and geographic information systems in the spatial temporal dynamics modeling of infectious diseases. *Science in China Series C- Life Sciences*, 49, 573-582.
47. **Liang, S^c**., Yang, C.H., Zhong, B., Qiu, D.C. (2006). Re-emerging schistosomiasis in mountainous and hilly region, Sichuan, China. *Bulletin of World Health Organization* 84(2):139-44.

48. Xu, B., Gong, P., Seto, E., **Liang, S.**, Yang, C., Wen, S., Gu, X., Spear, R.C. (2006). A spatial-temporal model for assessing the effects of inter-village connectivity in schistosomiasis transmission. *Annals of Associations of American Geographers*, 96(1) 31-46
49. **Liang, S.**, Spear, R.C., Seto, E., Hubbard, A., Qiu, D.C. (2005). A multi-group model of *Schistosoma japonicum* transmission dynamics and control: model calibration and control prediction. *Tropical Medicine and International Health* 10 (3); 273-287.
50. Xu, B., Gong, P., Biging, G., **Liang, S.**, Seto, E. and Spear, R.C. (2004). Snail Density Prediction for Schistosomiasis Control Using IKONOS and ASTER Images, *Photo. Engr. and Remote Sensing*, 70(11):1285-1294
51. Xu, B., P. Gong, **S. Liang**, E. Seto, B. Spear R. C. (2004). Snail density estimation for schistosomiasis control by integrating field survey and multiscale satellite images, *Geographic Information Sciences*, 9(1-2): 97-100
52. Bodnar, A., Castorina, R., Desai, M., Duramad, P., Fischer, S., Klepeis, N., **Liang, S.**, Mehta, S., Naumoff, K., Noth, E. M., Schei, M., Tian, L., Vork, K. L., and Smith, K. R. (2004). Lessons learned from the Skeptical Environmentalist: an environmental health perspective. *International Journal of Hygiene and Environmental Health* **207**, 57-67.
53. Spear, R. C., Seto, E., **Liang, S.**, Birkner, M., Hubbard, A., Qiu, D. C., Yang, C. H., Zhong, B., Xu, F. S., Gu, X. G., and Davis, G. M. (2004). Factors Influencing the Transmission of *Schistosoma japonicum* in the Mountains of Sichuan Province. *Am. J. Trop. Med. Hyg.* **70**, 48-56.
54. Spear, R, Hubbard, A., **Liang, S.**, Seto, E. (2002). Disease Transmission Models for Public Health Decision Making: Toward an Approach for Designing Intervention Strategies for Schistosomiasis japonica. *Environmental Health Perspectives* **110**:907-915.
55. Seto, E., Xu, B., **Liang, S.**, Gong, P., Wu, W.P., Davis, G., Qiu, D.C., Gu, X.G., Spear, R. (2002). The use of remote sensing for predictive modeling of schistosomiasis in China. *Photogrammetric Engineering and Remote Sensing* **68**:167-174.
56. **Liang, S.**, Maszle, D., Spear, R.C. (2002). A quantitative framework for a multi-group model of Schistosomiasis japonicum transmission dynamics and control in Sichuan, China. *Acta Tropica* **82**:263-277.
57. Hubbard, A., **Liang, S.**, Maszle, D., Qiu, D.C., Gu, X.G., Spear, R.C. (2002) Estimating the distribution of worm burden and egg excretion of schistosoma

- japonicum by risk group in Sichuan Province, China. *Parasitology*, **125**:221-231.
58. Seto, E., **Liang, S.**, Qiu, D., Gu, X., Spear, R.C. (2001) A protocol for geographically randomized snail surveys in schistosomiasis fieldwork using the global positioning system. *Am J Trop Med Hyg* **64**:98-9.
59. Wen, S., Xu, F., **Liang, S.** (1998) Investigation of environmental changes in the Three Gorges area: the potential impact on occurrence of schistosomiasis. *Journal of Practical Parasitic Diseases* **2**:25-27
60. Gu, X., Xu, F., **Liang, S.**, Qian, X., Zhao, W., Wen, S., Qiu, D., Liu, C. (1997). Effectiveness of stratified anti-measures for controlling schistosomiasis in Zone I, II, III of Xichang Study Area. *Journal of Schistosomiasis Control*, **9**(6);338-341
61. **Liang, S.**, Gu, X., Zhao, W.X., Li, X. (1996) Highly risky area and strategies for controlling schistosomiasis in mountainous regions, Sichuan. *Journal of Practical Parasitic Diseases* **4**:54-58.
62. Xu, F., Qian, X., **Liang, S.**, Zhao, W., Gu, X. (1996). The effect of schistosomiasis control in Xichang Study Area between 1987 – 1995. *Journal of Practical Parasitic Disease*, **4**(3): 129-130
63. **Liang, S.**, Zhao, W.X., He, C.S. (1995) A report of *Schistosoma sinensis* in natural water systems of Danling County, Sichuan, China. *Sichuan Journal of Zoology* **14**:45.
64. Luo, P., Luo, L., **Liang, S.** (1994). The detection of DNA finger prints with M13 phase of DNA probe in the mouse. *Acta Southwest Nationality University (Natural Science Edition)* **20**:289-292.