

DUKE UNIVERSITY MEDICAL CENTER

CURRICULUM VITAE

Updated in September, 2019

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Education and Training

<u>Institution</u>	<u>Date</u> (Year)	<u>Degree</u>
Shanghai Medical University	1980-85	MBBS
Shanghai Medical University	1985-88	MSc in Epidemiology)
Univ. of Washington, Seattle	1990-92	Masters of Public Health
Sussex University, UK	1995-1998	D.Phil (Development Studies in Health)

Professional employments/appointments:

1987-90	School of Public Health, Shanghai Medical University, China	Research and Teaching Assistant
1992-93	Institute of Development Studies, Sussex University, UK	Visiting Fellow/ Mid-career Fellow/World Bank
1993-97	Department of Social Medicine, Shanghai Medical University, China	Lecturer in Social Medicine
1998-2001	Liverpool School of Tropical Medicine, UK	Lecturer in International Health
2002-2006	Liverpool School of Tropical Medicine, UK	Senior Lecturer in International Health
2006-2009	Liverpool School of Tropical Medicine, UK	Reader in International Health
2006-2008	WHO China Office	Senior Health Policy Adviser
2009-2010	Tropical Diseases Program, World Health Organization, Geneva	Scientist - Public Health/Research Manager
2011-2012	Tropical Diseases Program, World Health Organization, Geneva	Unit Leader - TB/HIV and Health systems
2012-2017	Duke University/Medical School, USA	Professor of Medicine and Global Health & Associate Director of Duke Global Health Institute
2013-2018	Duke Kunshan University, China	Executive Director of Global Health Professor of Global Health
2017 -	Duke University/Medical School	Mary & James Semans Professor of Medicine and Global Health
2019 -	Duke-NUS/Medical School, Singapore	Professor of Global Health
2019 -	Duke University/Duke Global Health Institute	Deputy Director

Publications:

Refereed journals:

1. Gu X, Bloom G, **Tang S**, Zhu Y & Segall M. Financing health care in rural China: Preliminary report of a nation-wide study, ***Social Science and Medicine***, 1993, Vol. No.6 pp:47-53
2. Zhang Z, Graham S, Yu S, Marshall J, Zielesny M, Chen Y, Sun M, , **Tang S**, Liao C, Xu J & Yang X . Trichomonas vaginalis and cervical cancer: A prospective study in China, ***AEP***, 1995, Vol. 5, No.4, pp325-332
3. Bloom G and **Tang S**. Financing rural health services in China in the context of economic reform, ***Journal of International Development***, 1995, Vol. 7, No.3, pp:423-441.
4. Feng X, **Tang S**, et al. Co-operative medical schemes in contemporary rural China, ***Social Science and Medicine*** 1995, Vol. 41, No. 8, pp:1111-1118.
5. Gu X and **Tang S**. Reform of the Chinese health care financing systems, ***Health Policy***, 1995, Vol.32, No.1-3 (Corresponding author).

6. Gu X, **Tang S** and Cao S. Organisation and financing of rural health services in poor areas of China: A case study of donglan county, *International Journal of Health Planning and Management*, 1995, Vol. 10, No. 4, pp265-282. (Corresponding author)
7. **Tang S** and Gu X. Bringing basic health care to the rural poor, *World Health Forum*, Vol. 17 No 4, 1996. (Corresponding author)
8. Zhan S, **Tang S**, et al. Drug prescribing in rural health facilities in China: Implication for service quality and cost, *Tropical Doctor*, 1998, April.(Corresponding author)
9. **Tang S**. Health legislation in China: Do the words matter? *International Digest of Health Legislation*, 1999; Vol. 50 No 2.
10. Bloom G and **Tang S**. Rural health prepayment schemes in China: Towards a more active role for government, *Social Science & Medicine*. 1999;Vol. 48 No 7.
11. Garner P, Flores W and **Tang S**. Sector wide approaches to aid in developing countries. *British Medical Journal*. Vol. 321, 15 July 2000
12. **Tang S** and Bloom G. Decentralising rural health services: A case study in China. *International J of Health Planning and Management*, 2000; Vol.15, pp189-200 (Corresponding author)
13. Gao J and **Tang S**. Health insurance and hospitalization in urban China: Bending to the wind of change. *World Hospitals and Health Services*, 2000; Vol.36, No.3. (Corresponding author)
14. Gao J, **Tang S**, Tolhurst R and Rao K, Changing access to health services in urban China: What implications for equity? *Health Policy and Planning*. 2001; 16(3):302-312 (Corresponding author)
15. Akiba T, Osaka K, **Tang S**, Nakayama M, Yamamoto A, Kurane I, Okabe N & Umenai T, Analysis of Japanese encephalitis epidemic in western Nepal in 1997. *Epidemiology and Infection*. 2001;126(1):81-88
16. Lomoro, O, Ehiri J, Qian X and **Tang S**, Mothers' perspectives on quality of postpartum care in central Shanghai, China. *International J for Quality in Health Care*. 2002; Vol. 14(5):393-402.
17. Wang Y., Collins C., **Tang S**. and Martineau T. Health systems decentralization and human resource management in low and middle income countries. *Public Administration and Development* 2002; **22**: 439-453.
18. Gao J., Qian J., **Tang S.**, Eriksson B. and Blas E. Health equity in transition from planned to market economy in China. *Health Policy and Planning*. 2002; 17(Suppl 1):20-29.
19. Squire SB & **Tang S**. How much of China's success in tuberculosis control is really due to DOTS? *The Lancet* 2004; 364:391.
20. Qian X, **Tang S**, & Garner P. Unintended pregnancy and induced abortion among unmarried women in China: a systematic review. *BMC Health Services Research* 2004, 4:1
21. Meng Q, Rehnberg C, Zhuang N, Bian Y, Tomson G, & **Tang S**. Impact of urban health insurance reform on hospital charges: A case study from two cities in China. *Health Policy*, 68 (2004) pp. 197-209.

22. Tolhurst T, Zhang T, Yang H, Gao J, and **Tang S**. Factors affecting the implementation of health legislation and its impact on the rural poor in China. *International J of Health Planning and Management*. 2004;19:247-265.
23. Martineau T, Gong Y & **Tang S**. Changing medical doctors' productivity and its affecting factors. *International J of Health Planning and Management*. 2004, Vol.19:pp101-111 (Corresponding author).
24. **Tang S** & S.B. Squire. What lessons can be drawn from TB control in China? An analysis from a health system perspective *Health Policy* 2005; Vol.72 pp93-104 (Corresponding author).
25. Cheng G, Tolhurst R, Li R, Meng QY, **Tang S**. Factors affecting delays in TB diagnosis in rural China: a case study in four counties in Shandong Province. *Transactions of Royal Society of Tropical Medicine and Hygiene* 2005. Vol.99, pp355-362 (Corresponding author)
26. Liu X, Martineau T, Zhan S, **Tang S**. Does decentralization improve human resource management in the health sector? A case study from China. *Social Sciences & Medicine*. 2006; 63: 1836-1845
27. Zhang T, Liu X, Bromley H, **Tang S**. Perceptions of tuberculosis and health seeking behaviour in rural Inner Mongolia, China, *Health Policy*. 2006. 81(2-3). pp 155-165
28. **Tang S**, Li X & Wu Z. Rising caesarean delivery rate in primiparous women in urban China: Evidence from three nationwide household health surveys. *Am. J Obstet & Gynecol*. 2006; 195(6):1527-32 (Corresponding author).
29. McIntyre D, Dahlgren G, Gilson L, Whitehead MM & **Tang S**. Equity impacts of neo-liberal reforms: what should the policy responses be? *International Journal of Health Services*. 2007; 37(4), pp 693-709.
30. Luong DH, **Tang S**, Zhang T, Whitehead MM. Vietnam during economic transition: a tracer study of health services access and affordability. *International Journal of Health Services*. 2007; 37(3).(Corresponding author)
31. Zhang T, **Tang S**, Gao J, Whitehead MM. Persistent problems of access to appropriate, affordable TB services in rural China: experiences of different socioeconomic groups, *BMC Public Health* 2007, 7:19
32. Yan F, Thomson R, **Tang S**, Squire SB, Wang W, Liu X, Gong Y, Zhao F, Tolhurst R. Multiple perspectives on diagnosis delay for tuberculosis from key stakeholders in poor rural China: Case study in four provinces. *Health policy* 82 (2007) 189-199.
33. Xu L, Wang Y, Collins C & **Tang S**. Urban health insurance reform and coverage in China using data from National Health Services Surveys in 1998 and 2003. *BMC Health Services Research* 2007, 7:37. doi:10.1186/1472-6963-7-37
34. Gao J, Raven J & **Tang S**. Hospitalization among the elderly in China. *Health Policy* 84 (2007) 210-219 (Corresponding author)
35. Liu L, Thomson R, Gong Y, Zhao Z, Squire SB, Tolhurst R, Zhao X, Yan F, **Tang S**. How affordable are TB diagnosis and treatment in rural China? An analysis from community and TB patient perspectives. *Tropical Medicine and International Health*. 2007. Vol. 12 (12) pp 1464-1471
36. Wang Y, Long Q, Liu Q, Tolhurst R, & **Tang S**. Comparing delay in treatment seeking for symptoms suggestive of TB between migrants and permanent urban residents in Chongqing, China. *Tropical Medicine and International Health* 2008, 13(7):927-933

37. Long Q, Li Y, Wang Y, Yue Y, Tang C, **Tang S**, S.B Squire & R Tolhurst. . Barriers to accessing TB diagnosis for rural-to-urban migrants with chronic cough in Chongqing, China: A mixed methods study. ***BMC Health Service Research*** 2008, **8**:202
38. Hu S, **Tang S**, Liu Y, Zhao Y, Escobar M & de Ferranti D. Reform of how health care is paid for in China: challenges and opportunities. ***The Lancet***. Oct 2008: 68-75
39. **Tang S**, Meng Q, Chen L, Bekedam H, Evans T & Whitehead M. Tackling the challenges to health equity in China. ***The Lancet***. Oct. 2008: 25-33
40. Xin Y, Qian J, Xu L, **Tang S**, Gao J, and Critchley JA. The impact of smoking and quitting on household expenditure patterns and medical care costs in China. ***Tobacco Control*** 2009; 18: 150-155.
41. Zhang L, Cheng X, Liu X, Zhu K, **Tang S**, Bogg L, Dobberschuetz K and Tolhurst R. Balancing the funds in the New Cooperative Medical Scheme in rural China: determinants and influencing factors in two provinces. ***Int J Health Plann Mgmt*** 2009; 24: 1–23
42. Klemetti R, Che X, Gao Y, Raven J, Wu Z, **Tang S**, Hemminki E. Cesarean section delivery among primiparous women in rural China an emerging epidemic. ***American Journal of Obstetrics & Gynecology***. 12 Oct. 2009 (published online)
43. Liu Q, Smith H, Wang Y, **Tang S**, Wang Q, Garner P. Tuberculosis patient expenditure on drugs and tests in subsidized, public services in China: a descriptive study. ***Tropical Medicine and International Health***. 2009 Nov 16
44. Sun Q, Liu X, Meng Q, **Tang S**, Yu B, Tolhurst R. Evaluating the financial protection of patients with chronic disease by health insurance in rural China. ***International J Equity in Health***. 2009 Dec 9;8:42.
45. Zhang L, Cheng X, Tolhurst R, **Tang S**, Liu X. How effectively can the new Cooperative Medical Scheme reduce catastrophic health expenditure for the poor and non-poor in rural China. ***Tropical Medicine and International Health***. 2010. Vol. 15. No. 4, pp468-475
46. Guo Y, Shibuya K, Cheng G, Rao K, Lee L, **Tang S**. Tracking China's health reform. ***The Lancet***. Vol. 375. pp1056. March 27, 2010 (Corresponding author)
47. Yu B, Meng Q, Collins C, Tolhurst R, **Tang S**, Yan F, Bogg L, Liu X. How does the New Cooperative Medical Scheme influence health service utilization? A study in two provinces in rural China. ***BMC Health Services Research***. 2010 May 10;10:116.
48. Chen W, **Tang S**, Sun J, Ross-Degnan D & Wagner A. Availability and use of essential medicines in China: manufacturing, supply, and prescribing in Shandong and Gansu provinces ***BMC Health Services Research*** 2010, 10:211
49. Long Q, Zhang T, Xu L, **Tang S**, Hemminki E. Utilisation of maternal health care in western rural China under a new rural health insurance system (New Co-operative Medical System). ***Trop Med Int Health***. 2010 Oct;15(10):1210-7.
50. Qian J, Cai M, Gao J, **Tang S**, Xu L, Critchley JA, Trends in smoking and quitting in China from 1993 to 2003: National Health Service Survey data. ***Bull World Health Organ***. 2010 Oct 1;88(10):769-76
51. Long Q, Zhang Y, Raven J, Wu Z, Bogg L, **Tang S**, Hemminki E. Giving birth at a health-care facility in rural China: is it affordable for the poor? ***Bull World Health Organ***. 2011 Feb 1;89(2):144-52.

52. Wu Z, Lei P, Hemminki E, Xu L, **Tang S**, Li X, Raven J, Gao J, Tolhurst R. Changes and Equity in Use of Maternal Health Care in China: from 1991 to 2003. *Maternal & Child Health J*. 2011 Mar 24
53. Long Q, Smith H, Zhang T, **Tang S**, Garner P. Patient medical costs for tuberculosis treatment and impact on adherence in China: a systematic review. *BMC Public Health*. 2011 May 26;11:393.
54. Raven JH, Tolhurst RJ, **Tang S**, van den Broek N. What is quality in maternal and neonatal health care? *Midwifery*, 2012 Oct;28(5):E676-83
55. Hemminki E, Long Q, Zhang WH, Wu Z, Raven J, Tao F, Yan H, Wang Y, Klemetti R, Zhang T, & **Tang S**. Impact of financial and educational interventions on maternal care: results of cluster randomized trails in rural China – CHIMACA. *Matern Child Health J*. 2012 Feb 23. [Epub ahead of print]
56. Liu X, **Tang S**, Yu B, Khanh Phuong N, Yan Fe, Duc Thien D, Tolhurst R. Can rural health insurance improve equity in health care utilization? A comparison between China and Vietnam. *Int J Equity Health*. 2012 Feb 29;11(1):10
57. Collins C, Gonzalez Block MA & **Tang S**. Disease control and health systems in low- and middle-income countries: enhancing positive interrelation. *Tropical Medicine and International Health*. 2012 May;17(5):645-51 (corresponding author)
58. Huang K, Tao F, Raven J, Liu L, Wu X, **Tang S**. Utilization of antenatal ultrasound scan and implications for caesarean section: a cross-sectional study in rural Eastern China. *BMC Health Serv Res*. 2012 Apr 12;12:93.
59. **Tang S**, Tao J & Bekedam H. Controlling cost escalation of healthcare: making universal health coverage sustainable in China. *BMC Public Health 2012*, 12(Suppl 1):S8 (Corresponding author)
60. Li Z, Hou J, Lu L, **Tang S** & Ma J. On residents' satisfaction with community health services after health care system reform in Shanghai, China, 2011. *BMC Public Health 2012*, 12(Suppl 1):S9
61. Allotey-P, Yasin S, **Tang S**, Chong S, Cheah J and Reidpath D. Universal coverage in an era of privatisation: can we guarantee health for all. *BMC Public Health 2012*, 12(Suppl 1):S1
62. Zhang J, Yan F & **Tang S**. The incoherence of China's national health development strategies. *Am J Public Health*. 2012 Dec. 102(12):e14-6. doi: 10.2105/AJPH.2012.301046. Epub 2012 Oct 18.
63. Huang K, Tao F, Bogg L & **Tang S**. Impact of alternative reimbursement strategies in the new cooperative medical scheme on caesarean delivery rates: a mixed method study in rural China. *BMC Health Services Research* 2012 Jul 24:12:217.
64. Collins C Xu J & **Tang S**. Schistosomiasis control and the health system in P.R. China. *BMC Infectious Diseases of Poverty* 2012, 1:8 (1 Nov. 2012)
65. Huang K, Tao F, Faragher B, Raven J, Tolhurst R, & **Tang S**. A mixed method study of factors associated with differences in caesarean section rates at community level: The case of rural China. *Midwifery* 2013 Feb 20. doi:p11: S0266-6138(12)00209-4. 10.1016/j.midw.2012.11.003. [Epub ahead of print]
66. **Tang S**, Ehiri J & Long Q. China's biggest, most neglected health challenge: Non-communicable diseases. *BMC infectious diseases of poverty*. 2013, 2:7 (5 April 2013)

67. Meng Q, **Tang S**. Universal Health Care Coverage in China: Challenges and Opportunities. *Procedia - Social and Behavioral Sciences* 2013, 77: 330 – 340 doi: 10.1016/j.sbspro.2013.03.091
68. Long Q, Xu L, Bekedam H & **Tang S**. Changes in health expenditures in China in 2000s: Has the health system reform improved affordability? *International J for Equity in Health*. 2013: 12: 40. (corresponding author)
69. Li Y, Ehiri J, **Tang S**, et al. Factors associated with patient, and diagnostic delays in Chinese TB patients: A systematic review and Meta-analysis. *BMC Medicine*. 2013 Jul 2:11:156
70. Mao W, **Tang S** & Chen Wen. Does economic incentive to irrational medicine use? The power of invisible hand – experience from China. *Expert Review of Pharmacoeconomics & Outcomes Research*. 2013 Dec;13(6):693-6
71. **Tang S**, Brix H & Bekedam H. Advancing universal coverage of healthcare in China: translating political will into policy and practice. *International J of Health Planning and Management*. 2014 Apr-Jun;29(2):160-74 (corresponding author)
72. Sun J, Deng S, Xiong X & **Tang S**. Equity in access to healthcare among the urban elderly of China: does health insurance matter. *International J of Health Planning and Management*. 2014;Apr-Jun:29(2):e127-44
73. Xiao N, Long Q, Tang X, **Tang S**. A community-based approach to non-communicable disease management within a context of advancing universal health coverage in China: progress and challenges. *BMC Public Health*. 2014;14 Suppl 2:S2
74. Yan F, **Tang S**, Zhang J. Global implications of China's healthcare reform. *International J of Health Planning and Management*. 2014 May 29. [Epub ahead of print]
75. Liu P, Guo Y, Qian X, **Tang S**, Chen L. China's distinctive engagement in global health. *The Lancet*. 2014 Aug 30:384(9945):7093-804
76. Liu Q, Vu H, Liu X, **Tang S**, Wang H. Comparison between peer-led and teacher-led education in tuberculosis prevention in rural middle schools of Chongqing, China. *Asia-Pacific Journal of Public Health*. 2015 March;27(2):NP2101-11
77. Lei X, Liu Q, Escobar E, Philogene J, Zhu H, Wang Y, **Tang S**. Public-private mix for tuberculosis care and control: a systematic review. *Int. J Infect Dis*. 2015 May;34:20-32
78. Mao W, Vu H, Xie Z, Chen W, **Tang S**. Systematic review on irrational use of medicines in China and Vietnam. *PLoS One* 2015 Mar 20;10(3)
79. Li Y, **Tang S**, Sata K, Cao J. Chinese People's Liberation Army on Action of Fighting against Ebola in Africa: Implications and Challenges. *Chin Med J (English)*, 2015 May 20; 128(10);1420
80. **Tang S**. Tackling challenges of TB/MDRTB in China: concerted actions are imperative. *Infect Dis Poverty*. 2015 Apr 16:4:19
81. Ji H, Jiang H, Yang L, Qian X, **Tang S**. Factors contributing to the rapid rise of caesarean section: a prospective study of primiparous Chinese women in Shanghai. *BMJ Open*. 2015 Nov 13;5(11)
82. Phua KH, Sheikh K, **Tang S**, Lin V. Editorial – Health systems of Asia: Equity, Governance and Social Impact. *Soc Sci Med*. 2015 Nov;145:141-4

83. Liu Y, Jiang Y, **Tang S**, Qiu J, Zhong X, Wang Y. Analysis of the equity of emergency medical services: a cross-section survey in Chongqing city. *Int J Equity Health*. 2015 Dec 21;14(1) 150
84. **Tang S**, Wang L, Wang H, Chin D. Access to and affordability of healthcare for TB patients in China: issues and challenges. *Infect Dis Poverty* (2016) 5:10. DOI 10.1186/s40249-016-0096-y.
85. Xiang L, Pan Y, Hou S, Zhang H, Sato K, Li W, Wang J and **Tang S**. The impact of the new cooperative medical scheme on financial burden of tuberculosis patients: evidence from six counties in China. *Infect Dis Poverty* (2016) 5:8. DOI 10.1186/s40249-015-0094-5
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87. Jia X, Chen J, Zhang S, Dai B, Long Q and **Tang S**. Implementing a “free” tuberculosis (TB) care policy under the integrated model in Jiangsu China practices and costs in the real world. *Infect Dis Poverty* (2016) 5:1. DOI 10.1186/s40249-016-0099-8
88. Zhang H, Ehiri J, Yang H, **Tang S**, Li Y. Impact of community-based DOT on Tuberculosis treatment outcomes: a systematic review and meta-analysis. *PloS One*. 2016;11(2): e0147744.
89. Jiang H. Qian X, Chen L, Li J, Escobar E, Story M, **Tang S**. Towards universal access to skilled birth attendance: the process of transforming the role of traditional birth attendants in rural China. *BMC Pregnancy & Childbirth*. 2016;16(1):1
90. Lei X, Huang K, Liu Q, Jie Y, **Tang S**. Are tuberculosis patients adherent to prescribed treatments in China? Results of a prospective cohort study. *Infect Dis Poverty*. 2016. 5:38 DOI: 10.1186/s40249-016-0134-9
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92. Long Q, He M, Tang X, Allotey P, **Tang S**. Treatment of Type 2 diabetes mellitus in Chongqing of China: unaffordable care for the poor. *Diabetic Medicine*. 2016, Aug 34(1):120-126. DOI: 10.1111/dme.13193
93. He M, Gao J, Liu W, Tang X, **Tang S**, Long Q. Case management of patients with Type 2 diabetes mellitus: a cross-sectional survey in Chongqing, China. *BMC Health Serv Res*. 2017; 17: 129. doi: 10.1186/s12913-017-2039-0
94. Jiang H, Qian X, **Tang S**. Achieving equity in maternal health in China: more to be done. *Lancet Global Health*. 2017 May 24, [http://dx.doi.org/10.1016/S2214-109X\(17\)30138-9](http://dx.doi.org/10.1016/S2214-109X(17)30138-9)
95. Mao, W, **Tang, S**, Zhu, Y, Xie, Z, & Chen, W. Financial burden of healthcare for cancer patients with social medical insurance: a multi-centered study in urban China. *International journal for equity in health*, 2017. 16 (1), 180. doi: 10.1186/s12939-017-0675-y.
96. Healy J, **Tang S**, Patcharanarumol W, Annear P. A framework for comparative analysis of health systems: experiences from the Asia Pacific Observatory on Health Systems and Policies. *WHO South-East Asia Journal of Public Health*. 2018;7(1) 5

97. Gao P, Xiang H, Liu S, Liu Y, Dong S, Liu F, Yu W, Li X, Guan L, Chu Y, Mao Z, Chen S, **Tang S**. Evaluation of a consulting training course for international development assistance for health. *BMC Medical Education*. 2018. 18:234
98. Huang W, Long H, Li J, Tao S, Zheng P, **Tang S**, Abdullah AS. Delivery of public health services by community health workers (CHWs) in primary health care settings in China: a systematic review (1996–2016). *Global Health Research and Policy*, 2018, 3:18
99. Li Y, Wang H, Jin X, Li X, Pender M, Song C, **Tang S**, Cao J, Wu H, Wang Y. Experiences and challenges in the health protection of medical teams in the Chinese Ebola treatment center, Liberia: a qualitative study. *Infectious Diseases of Poverty*. 2018. 7:92
100. Yang X, **Tang S**, Yamey G, Qian X. Strengthening maternal and child health in China: Lessons from transforming policy proposals into action. *BioScience Trends*. 2018. 12(2).
101. Yu W, Jiang J, Xie L, Li B, Luo H, **Tang S**, et al. Mortality Trends in Colorectal Cancer in China During 2000-2015: A Joint-point Regression and Age-Period-Cohort Analysis. *Prev Chronic Dis*. 2018 Dec 13;15:E156. doi: 10.5888/pcd15.180329
102. Long H, Huang W, Zheng P, Li J, Tao S, **Tang S**, Abdullah AS. Barriers and Facilitators of Engaging Community Health Workers in Non-Communicable Disease (NCD) Prevention and Control in China: A Systematic Review (2006–2016). *Int J Environ Res Public Health*. 2018 Oct 26;15(11). pii: E2378. doi: 10.3390/ijerph15112378.
103. Zhu A, **Tang S**, Thu N, Supheap L, Liu X. Analysis of strategies to attract and retain rural health workers in Cambodia, China, and Vietnam and context influencing their outcomes. *Human Resources for Health*. 2019.17:2. <https://doi.org/10.1186/s12960-018-0340-6>
104. Ji J, Zhu A, Bai C, Wu C, Yan L, **Tang S**, Zeng Y, James P. Residential greenness and mortality in oldest-old women and men in China: a longitudinal cohort study. *Lancet Planet Health* 2019; 3: e17–25
105. Chen S, Pender M, Jin N, Merson M, **Tang S**, Gloyd S. Chinese medical teams in Africa: a flagship program facing formidable challenges. *J Glob Health*. 2019 Jun;9(1):010311. doi: 10.7189/jogh.09.010311. PM:30842880 (Corresponding author)
106. Jiang W, Long Q, Lucas H, Dong D, Chen J, Xiang L, Li Q, Huang F, Wang H, Cibers C, Cobelens F, **Tang S**. Impact of an innovative financing and payment model on TB patients' financial burden: is TB care more affordable for the poor. *Infectious Diseases of Poverty*. Mar 24;8(1):21. doi: 10.1186/s40249-019-0532-x.PMID:30904025
107. Dong D, Jiang W, Long Q, Huang F, Zhang H, Chen J, Xiang L, Li Q, **Tang S**, Lucas H. Impact of an innovative tuberculosis financing and payment model on health service utilization by tuberculosis patients in China: do the poor fare better than the rich? *Infect Dis Poverty*. 2019 Jun 11;8(1):44. doi: 10.1186/s40249-019-0559-z. PMID:31182164.
108. Li Y, Wang H, Jin X, Li X, Pender M, Song CP, **Tang S**, Cao J, Wu H, Wang Y. Experiences and challenges in the health protection of medical teams in the Chinese Ebola treatment center, Liberia: a qualitative study. *Infect Dis Poverty*. 2018 Aug 16;7(1):92. doi: 10.1186/s40249-018-0468-6. PM: 30134982

109. Yuan B, Balabanova D, Gao J, **Tang S**, Guo Y. Strengthening public health services to achieve universal health coverage in China. *BMJ*. 2019 Jun 21;365:l2358. doi: 10.1136/bmj.l2358.PMID:31227480.
110. Jiang J, Lucas H, Long Q, Xin Y, Xiang L, **Tang S**. The Effect of an Innovative Financing and Payment Model for Tuberculosis Patients on Health Service Utilization in China: Evidence from Hubei Province of China. *Int J Environ Res Public Health*. 2019 Jul 12;16(14). pii: E2494. doi: 10.3390/ijerph16142494. PMID:31336947
111. Pu J, Chen W, Jiang X, Xing W, Liang S, Wang G, Liu S, Wu H, Li Y, **Tang S**. Is tuberculosis patients management improved in the integrated TB control model in West China? A survey in Guizhou Province, China. *Infect Dis Poverty*. 2019 Jul 2;8(1):55. doi: 10.1186/s40249-019-0563-3. PMID: 31262368
112. Mao W, Jiang W, Hamilton C, Zhang H, Huang F, Lucas H, Huan S, **Tang S**. Over- and under-treatment of TB patients in Eastern China: An analysis based on health insurance claims data. *Tropical Medicine & International Health*. 2019 Sep;24 (9):1078-1087. Epub 2019 July 29
113. Zhou D, Pender M, Jiang W, Mao W & **Tang S**. Under-reporting of TB cases and associated factors: a case study of East China. *BMC Public Health* (accepted)
114. Chen S, Guo L, **Tang S** (corresponding and last author): Progress toward the health related sustainable development goals in China: A systematic analysis of current situation and projection 2030 achievements. *PLOS Medicine* (accepted)

Non-refereed publications

1. Gu X, Bloom G, **Tang S** and Lucas H. Health Expenditure and Finance in Three Poor Counties of China, *Institute of Development Studies (IDS) Working Paper 21*, Brighton, England, 1995
2. Gu X, Bloom G, **Tang S** and Lucas H. Financing Health Services in Poor Rural China: A Strategy for Health Sector Reform, *Institute of Development Studies (IDS) Working Paper 17*, Brighton, England, 1995.
3. **Tang S**. Community Health Care, *World Health Forum*, 1997, Vol.18. No 1 [Letter to Editor]
4. **Tang S**. Changing Role of the Township Health Centres in Rural China in the Context of Economic Reform, *IDS Bulletin*, 1997, Vol.28, No.1, the Institute of Development Studies, Brighton, UK.
5. **Tang S**. Paying for Health: New Lessons from China. *Contact*. No.166, July/September 1999
6. **Tang S**, Cheng XM, Xu L. Developing urban social health insurance in a rapidly changing economy of China: Problems and challenges. In Holst J & Brandrup-Lukanow A (eds) Extending social protection in health: experiences and lessons learnt and recommendations on social protection in developing countries. Berlin Conference in Social Health Insurance in Developing County. 5-7 Dec. 2005
7. Wang Y, Meng Q, Yu B, Han D & **Tang S**. Research, intervention design and policy implementation of the New Rural Cooperative Medical Scheme in Shandong, China, Promoting Health and Equity: From

8. Liu X, Zhu A, **Tang S**. Attraction and Retention of Rural Primary Health-care Workers in the Asia Pacific Region(Policy Brief, Vol. 5 No. 1 2018) ISBN 978-92-9022-649-9

Books/Book chapters/Monographs

1. **Tang S**, et al. Financing Health Services in China: Adapting to Economic Reform, *IDS Research Report 26* (163 pages), Brighton, England, 1994.
2. Gu X and **Tang S**. Reform of the Chinese health care financing systems, in the book edited by Berman P: **Health Sector Reform in Developing Countries - Making Health Development Sustainable**, Harvard University Press, 1995.
3. **Tang S** and Wu Z, Health Care and Health in Transition, In X Peng (ed): **Changing Population of China**, Blackwell, London, 2000.
4. Bloom G and **Tang S** (eds). **Health care transition in urban China**. 2004. Ashgate Publisher.
5. Ren MH & **Tang S** (eds) Introduction to Global Health, People's Medical Publishing House, 2016 – first Chinese textbook on Global Health (in Chinese)
6. Liu X, Zhu A, & **Tang S**. Attraction and Retention of Rural Primary Health-care Workers in the Asia Pacific Region. New Delhi: 2018 World Health Organization, Regional Office for South-East Asia.
7. Abdulla A, Rawal LB, Choudhury SR, Baral S, Jiang L, Sha T. **Tang S**. Use of community health workers to manage and prevent NCDs in developing countries. 2019. WHO/Asia-Pacific Observatory on Health Policy and System.
8. **Tang S** (ed), **Achieving Healthy China 2030 – an empirical study**. People's Medical Publishing House, 2019 (in Chinese)

Other publications

a. Selected abstracts

1. **Tang S**, Wang L, Wang X and S B Squire. Does rapid economic growth reduce TB prevalence in the absence of effective TB control. **International J of Tuberculosis and Lung Disease** 2002; Vol.6(10).
2. Wang L, Wang X, Fu C, **Tang S** and S B Squire. Factors associated with failure to complete TB treatment in China. **International J of Tuberculosis and Lung Disease**. 2002; Vol.6(10)
3. **Tang S**. Reforming China's Health Systems for equitable access to healthcare, Global Forum for Health Research, Beijing, China, 2007.
4. **Tang S**. Challenges and priorities in health systems research for infectious diseases of poverty - presented at the First Global Symposium on Health Systems Research. Montreux, Switzerland, 16-19 Nov. 2010

5. **Tang S.** innovative solutions to fighting diseases among the poor. 38th annual meeting of Global Health Council, Washington DC, 13-17 June. 2012
6. Jiang, H., **Tang, S.**, Li, J., Chen, L., Escobar, E., & Qian, X. (2015). Task shifting of traditional birth attendants in rural China: a qualitative study of the implementation of institution-based delivery policy. *The Lancet*, 386, S41.
7. Liu, Y., Jiang, Y., **Tang, S.**, Long, Q., Qiu, J., Zhong, X., & Wang, Y. (2015). Analysis of the equity of emergency medical services: a cross-sectional survey in Chongqing city. *The Lancet*, 386, S45.
8. Zhang, Y., Dong, D., Xu, L., Miao, Z., Mao, W., & **Tang, S.** (2018). Equity in health care after 10 years of the New Rural Co-operative Medical Insurance Scheme in China: an analysis of national survey data. *The Lancet*, 392, S35.
9. Zhang, Y., Mao, W., Xu, L., Miao, Z., Dong, D., & **Tang, S.** (2018). Does health insurance matter to the use of health services for the elderly in China? A multiyear, nationwide, cross-sectional study. *The Lancet*, 392, S53.
10. Chen, S., Mao, W., Jiang, W., Wang, Z., Guo, L., Ding, X., ... & **Tang S.** (2018). Can Jiangsu province achieve the health-related Sustainable Development Goals and Healthy Jiangsu 2030 goals? A systematic analysis on the current situation and projected attainment. *The Lancet*, 392, S61.

b: Editorials, position, and background papers

1. Kroeger A., Falkenberg T., Tomson G., Sen K., Diesfeld HJ, Dujardin B., **Tang S.** and Stuyft V. Does Brussels listen? European health system research in developing countries at the edge of extinction (Editorial). *Tropical Medicine and International Health*. 2002; Vol. 7(2):101-103.
2. Nhlema B, Kemp J, Theobald S, **Tang S** and S.B. Squire. A systematic review of TB and poverty. A technical report commissioned by WHO/Stop TB Partnership Secretariat, Geneva 2002.
3. **Tang S**, Liang, H, Meng, QY, Baris E, Addressing inequity in access to health care in urban China. Working Paper Series No. 2004-5. The World Bank, Washington DC.
4. **Tang S.** Commentary: economic crisis or structural adjustment – which is worse for child health in African countries? *International Journal of Epidemiology*. 2006; 35: 656 - 65.
5. Meng Q & **Tang S**, Universal coverage of healthcare in China: Challenges and opportunities. *World Health Report* (2010) - Background paper, No 7. http://www.who.int/healthsystems/topics/financing/healthreport/7ChinaM_T.pdf
6. **Tang S.** Developing equitable and efficient health insurance in China. *Paulson Policy Memorandum*, 2014 Oct. Paulson Institute at University of Chicago, and Paulson Foundation, China.
7. **Tang S.** China's Engagement in International Development Assistance in Health, Policy Briefing - the Asia Society Policy Institute, 2018, New York

Peer-reviewed publications in Chinese academic journals.

Shenglan Tang has also authored and co-authored over 70 academic articles on health systems, disease control and maternal and child health care in leading Chinese academic journals over the past four decades.

Consultant appointments

YEAR	AGENCY	PROJECT	TASK
1997	DFID,UK	The Social Health Insurance Project in Bangladesh	Present lessons learnt from the Chinese rural health insurance schemes and discuss with the policy makers in Bangladesh the Action Plan on Social Health Insurance in Bangladesh
1997	EU	Appraisal Mission on Health Program in China	Assessing how EU can support the health sector reform in China
1999	DFID/ World Bank	Basic health care in poor rural China	Deputy Resource Centre Manager responsible for identifying and managing technical assistance requirements
1999	DFID/ World Bank	Basic health care in poor rural China	Organizing a training workshop on project planning and evaluation and provide one project county with necessary technical support in project evaluation, as Team Leader
2000	EU	5 th Framework Programme/EU INCO	Evaluation of research proposals in the areas of public health and health systems development
2001	UNDP	An Experiment in Community Health: Policy Exploration and Demonstration Program in China	Evaluating the project (\$1 million) and developing a proposal on further actions UNDP should take in supporting the health development of China, Team Leader
2001	DFID,UK	Urban health and poverty project	Support in developing financing of community health services in urban China, as Team Leader
2002	SIDA/ World Bank	Vietnamese national health survey	Supporting the analysis of health policies on use and quality of health care and public/private mix
2003	DFID,UK	TB control in China	Providing technical assistance to the social assessment study for TB control project, as team leader for four missions
2003	DFID,UK	National household health survey in China	Design China's third national health service survey and develop health related MDG monitoring and evaluation system
2005	DFID,UK	Urban Health and Poverty Project in China	Core Support Team and a leader of three missions.
2012	The Gates Foundation	Integrating MDR-TB treatment into health insurance in China	Providing technical support to the design of the Phase II project of the Gates funded project on TB control in China
2012	WHO	Design PR Lao's health system reform plan	Leading a technical team consisting of WHO staff and development partners to design PR Lao's universal health coverage plan 2013-2025

2013	DFID, UK	Global Health Support Project in China	Leading a technical advisory group to provide support to DFID China Office and MoH, China to implement the project
2013	GAVI Alliance, Geneva	Independent panel review	Review project proposals for GAVI's support
2014	DFID, UK	Global Health Support Project in China	Leading a technical advisory group to provide support to DFID China Office and MoH, China to implement the project
2015	WPRO, Manila	Re-orienting health systems in Asia to meet challenges of ageing society	Developing a report template for the project; and completing the case study of China using the template

Professional awards and special recognitions/appointments:

Fellow of Faculty of Public Health of the Royal Colleges of Physicians, UK (from 2007)

Honorary Professor of International Health,

Liverpool School of Tropical Medicine, UK (from 2010 -2014)

Visiting Professor of Health Policy Shandong University, China (from 2006 -)

Visiting Professor of Public Health, Chongqing Medical University, China (from 2003-)

Advisory Professor of Public Health, Fudan University, China (from 2005 -)

Overseas Distinguished Professor of Public Health at Fudan University, China (funded by the Ministry of Education, China) from 20013 -17

Adjunct Professor of Public Health, the Chinese Univ. of Hong Kong (from 2006 -2012)

Adjunct Professor of Global Health, Nossal Institute for Global Health, University of Melbourne (2016 -)

Fellowships and awards

- Post-graduate scholarship in international health – Pew Trust/USA 1990-91

- International Health Policy Program/World Bank – Mid-career fellowship 1991-92

- British Council scholarship – 1993

- International Development Research Centre/Canada – PhD fellowship 1994-97

Organizations and participation: (Offices held, committee assignments, etc.)

Health Policy Adviser at WHO China Office - Jan. 2006 - Feb. 2009

- As one of two key authors in the WHO team, we developed "Health in China's Harmonious Society: Building a Health System to Benefit All – Considerations for China's Health System Reform for the Chinese Government" – a commissioned proposal by the Government of China. Many of recommendations proposed in the proposal have been accepted by the Chinese Government in its health system reform plan published in 2009;
- Led a WHO team to develop a set of policy recommendations on formulating a national medicine policy in China, which was highly valued and appreciated by the State Council, including Ministry of Health, State FDA, and other relevant government agencies;
- Provided technical assistance to the Health Policy Support Project in China funded by British Government, covering the areas of pro-poor health policy research, senior health professional development, knowledge management and dissemination;

- Raised 1.4 million euro from Luxemburg Government to carry out a project entitled "Fighting NCDs with better skilled health workers in rural Shandong Province, China", and provided on-going technical support to the implementation of the project in 2007-8;
- Helped many Chinese institutions to better implement WHO funded health projects
- Providing technical advices on health system reform, TB control and MCH to several key government ministries, UN agencies (UNICEF, UNDP, etc) and other donors working in China.

Scientist/Research Manager, Stewardship, TDR/WHO - March 2009 - Jan 2011

- Led a WHO-based secretariat to organize successfully the First Global Symposium on Health Systems Research held in November 2010, Switzerland attended by over 1,200 participants from 107 countries;
- Managed three international reference groups/committees: health systems and implementation research, social science, and gender, and TB, Leprosy and Buruli Ulcer;
- Coordinated TDR regional consultation on research for infectious diseases of poverty;
- Led a global study on financial flow on research for infectious diseases of poverty in collaboration with Global Forum for Health Research;
- Served as Acting Coordinator of Stewardship Unit at TDR/WHO

Unit Leader, TB/HIV, TDR/WHO - Jan 2011 – Jan 2011

- Responsible for overall development of unit research strategies and project implementation;
- Managing two TB and health systems research projects funded by TDR and DFID jointly;
- Coordinating USAID funded implementation research in Asian and African countries
- Chairing a committee of cross-cutting issue on health systems research within TDR
- A member of working group for establishing international society of health systems research

Other assignments

Chair, Technical Advisor Group of Global Health Support Project in China (GBP 12 million) (2013 – 2016)

Expert evaluation panel member for public health, and health system development, 5th Framework, EC DG Research (1999-2001)

Resource Centre's Deputy Manager, China Health 8 Project funded by the World Bank and Department for International Development of UK and the World Bank (1999 - 2003)

Technical Adviser of the Resource Centre for the Urban Health and Poverty Project in China supported by the DFID, UK (2001-2005)

Member of Steering Committee of WHO/TDR (2002-2005)

Director of LATH Board (health consulting firm of Liverpool School) (2002 – 2005)

Executive Member of the National Committee of Health Policy and Management, Ministry of Health, China(2005-)

Executive Member of Global Health Watch Coordinating Committee (2005)

Member of Joint Commission International (JCI) Advisory Committee for primary care standards (2006)

Expert panel member on public health, appointed by President by Karolinska Institute for independent assessment of research quality, 2011

Member of Global Agenda Council (Ageing) – World Economic Forum; 2012 -2-15

Member of Independent Review Panel – GAVI in Geneva (2012-2015)

Vice President of Chinese Consortium of Universities for Global Health (2013-15)

President of Chinese Consortium of Universities for Global Health (2016-17)

Member of Joint Health System Research Initiative Committee, Wellcome Trust/MRC/DFID (2016-)

Board of Directors – Triangle Global Health Consortium, NC (2019 -)

Teaching responsibilities

Research & Teaching Assistant – School of Public Health of Shanghai Medical University in 1987-1990

Tutor to a wide range of students, with regular mentoring from senior colleagues. Included undergraduate and graduate students from the Department of Epidemiology, Health Statistics and Social Medicine. Later gave lectures in courses of Epidemiology, Health Statistics and Social Medicine.

Lecturer - School of Public Health of Shanghai Medical University 1993-94

Developed new module in research methods for post-graduate students at the School of Public Health, drawing on knowledge and skills learnt from the University of Washington and the University of Sussex. I taught Health Statistics and Epidemiology for up to 30 post-graduate students, and had on average about 100 contact hours every year. In addition, I was invited during the period to lecture at other universities and research institutes in China.

Lecturer in International Health – Liverpool School of Tropical Medicine, 1998 - 2002

Director of Masters of Community Health, 1998-1999; responsible for re-designing the course handbook, dissertation guidelines, and leading a team that revamped the core international health module and re-designed the introductory course which aimed to provide new students a good orientation and learn basic skills useful to their studies of modules required by the course.

Module Leader: Health policy, planning and finance, which I brought up to date and refined.

Others: active member of Board of Studies, helping assure quality in other modules such as epidemiology, study design, contributing to other modules including lectures for DTMH.

Senior Lecturer in International Health – Liverpool School of Tropical Medicine 2002 - 2006

Continued to lead the module of Health Policy, Planning and Finance and co-convenor of the module of International Health for several years. Also made significant contribution to the teaching of other module, such as research design, DTMH course, etc.

Supervision of Research students including MPhil/PhD

Besides my supervision of more than a dozen of MSc students between 1998 and 2005, I supervised 6 research students registered with MPhil/PhD programs at University of Liverpool. I also co-supervised two PhD students from School of Public Health, Fudan University, China, and one PhD student from Helsinki University, Finland. The research topics covered a variety of areas: health human resource management, maternal and child care, health equity, and TB control. These students mainly came from China, Saudi Arabia and Thailand. Please see the sheet on Summary of Teaching.

Areas of research interests

Health systems research - health financing/insurance schemes
Equity in health and healthcare
Disease control - TB and other Neglected Tropical Diseases (NTD) control
Maternal and child healthcare
Tobacco control

Journal editorial board membership

Social Science and Medicine (since 2013)
Health Policy and Planning (2009 - 2015)
Bulletin of World Health Organization (Editorial Adviser – 2009-2011)
Journal of Evidence-based Medicine (since 2006)
BMC Health Service Research (Associate Editor 2009 -2012)
International Journal of Healthcare Delivery Reform Initiatives (Associate Editor since 2008))
Chinese Journal of Health Policy (since 2006)
BMC - Infectious Disease of poverty (Deputy Editor-in-Chief, since 2012)

External support - gifts, grants, and contracts:

	PI	% Effort	Purpose	Amount/Funding agency	Duration
G1	Co-PI	80%	Research Project on Rural health insurance in China	MoH, China RMB 60,000	1988-90
G2	Co-PI	40%	Organization and financing of rural health services in poor areas of China.	International Health Policy Program//World Bank US\$ 200,000	1993-97
G3	Co-PI	10%	Financing of reproductive health care in Yunnan, China	Ford Foundation, US US\$270,000	1993-96
G4	PI	20%	Evaluation of rural prepayment schemes in China, 1993	IDRC, Canada CAD 30,000	1993-95
G5	PI	40%	Experimental study of co-operative medical schemes in rural areas of China	IDRC, Canada, CAD 300,000	1995-97
G6	Co-PI	5%	Academic link of China scheme (Health	British Council	1994-96

			Development)	GBP 30,000	
G7	PI	10%	Access to health services from a gender perspective	Ford Foundation, US US\$31,000	1999-2001
G8	PI	40%	Reforming health services for equity and efficiency in urban China	European Commission (EC) - €450,000	1998-2002
G9	PI	10%	Effectiveness of health legislation in poor rural areas of China	DFID/ GBP39,500	2000-02
G10	Co-PI	15%	Impact of decentralization on health human resource management	DFID GBP 155,000	2000-02
G11	PI	5%	Review of pro-poor policy on urban health care financing	World Bank US\$15,000	2001-02
G12	Co-PI	20%	Affordability Ladder Program on Access to Healthcare in Developing Countries	Rockefeller Foundation – USA GBP50,561	2003 to 2005
G13	PI	20%	China's National Household Health Survey in 2003	DFID - UK GBP71,710	2003 to 2006
G14	Co-PI	10%	Comparing access to TB diagnosis between migrants and residents in Chongqing, China	TDR/WHO US\$47,600	2004 to 2006
G15	Co-PI	10%	Structural hindrances to and promoters of good maternal care in rural China	EC €1.5 million	2005 to 2009
G16	Co-PI	5%	Health Policy Making in Vietnam, India and China: key determinants and their inter-relationships	EC €2.5 million	2005 to 2009
G17	PI	30%	RHINCAV - Bringing health-care to the vulnerable – developing equitable and sustainable rural health insurance in China and Vietnam	EC €1.62 million	2005 to 2009
G18	Co-PI	5%	Active and Passive Smoking, Chronic Diseases and Poverty in China	IDRC, Canada CAD57,600	2006 to 2007
G19	PI	2%	Support academic writing for health systems researchers from China and Vietnam	China Medical Board (CMB), USA \$20,000	2007
G20	Co-PI	5%	Improving access to essential medicines in China and Vietnam	WHO/Alliance for Health Policy and System Research/ US\$195,000	2013-15
G21	PI	25%	Developing and evaluating sustainable models of financing TB/MDRTB control and prevention in China	The Gates Foundation – US\$ – 670,000	2013 - 2015
G22	Director	5%	Research hub – Asia-Pacific Observatory of Health Policy and Systems	WHO - \$300,000	2015-2017
G23	PI	2%	International experience of pricing system and price negotiation mechanism of pharmaceutical products	Development Research Center (DRC),	2015-2016

				China -\$73,500	
G24	PI	3%	Prevention and Control Strategy of Major Infectious Diseases in China	DRC, China - \$103,000	2015-2016
G25	PI	20%	Monitoring, Learning and Evaluation for the Implementation of Comprehensive Models of TB Care and Control in China	The Gates Foundation \$1,200,000	2016-2018
G26	PI	10%	Achieving Health SDGs in China: Developing Evidence-based Policy Options for Action	The Gates Foundation \$ 924,434	2016-2017
G27	PI	3%	Developing an effective referral system for health service delivery: what China can learn from international experiences	DRC, China -\$73,500	2016-2017
G28	Director	5%	Research hub – Asia-Pacific Observatory of Health Policy and Systems	WHO - \$280,000	2018-2019
G29	PI	25%	Monitoring, Learning and Evaluation for the Implementation of Comprehensive Models of TB Care and Control in China	The Gates Foundation (supplemental grant) \$ 180,000	2019-2020
G30	PI	5%	Developing integrated healthcare model for DM and TB patients in Indonesia	Duke-NUS S\$50,000	2019-2020

Besides these research grants awarded, I received a project contract from Government of Luxemburg to support NCDs control in Shandong Province, China while I was working at WHO China Office. The project was implemented in eight counties between 2007-2009. The value of the project was €1.4 million. At TDR/WHO, my team developed a partnership with European Commission to promote stewardship in NTD (neglected tropical diseases) research. EC provided TDR with €2 million to support the initiative.