个人简介

姓名：郑彬

性别：女

出生年月：1972.6

学位/学历：医学博士

职称：研究员、博士生导师

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办公地址：上海市黄浦区瑞金二路207号

教育经历

1990年9月-1995年7月 白求恩医科大学预防医学系 本科

2000年9月-2005年7月 中国疾病预防控制中心 流行病与卫生统计学 研究生

工作经历

1995年7月-2000年8月 河北省石家庄市人民医院 营养学 医师

2005年7月—中国疾病预防控制中心寄生虫病预防控制所 疾病控制专业 研究员

社会/学术任职和活动

上海市寄生虫学会理事长；中华预防医学会生物安全分会委员；中国标准化协会卫生健康专业委员会副主任委员。

研究方向/主要研究内容

专业及研究方向：

1. 分子流行病学：包括重要寄生虫病传播机制、溯源研究和寄生虫病现场快速分子检测技术的建立；
2. 卫生政策研究：涵盖寄生虫病行业标准体系、制修订以及跟踪评价方法研究及现场评价。
3. 实验室生物安全：聚焦寄生虫保种和实验研究的相关生物安全问题。

科研/教学研究项目

1. 2015.01-2017.12，项目名称：寄生虫病与热带病防控技术的转化与应用，项目编号：GWIV-29，

项目来源：上海市三年行动计划子课题。

2. 2018.01-2020.12，项目名称：重要寄生虫标准化鉴定技术及参比库的建立，项目编号：2018ZX10734404-004，项目来源：国家科技重大专项。
3. 2021.04-2022.03，项目名称：《溶组织内阿米巴检测核酸鉴定法》团体标准制定，项目来源：上海市科协。
4. 2020.02-2022.12，项目名称：上海市公共卫生体系建设三年行动计划（2020-2022 年）重点学科建设：寄生虫与病媒控制，项目编号：GW5-10.1，项目来源：上海市三年行动计划子课题 。
5. 2025.02-2026.12，项目名称：寄生虫保藏库通用标准体系的研制和建立，项目编号：24DZ2203100，项目来源：上海市科委。

主要学术成果

期刊论文(2020 年以来论文)

1. Fua MH, Han Shuai, Xue CZ et al.Contribution to the echinococcosis control programme in China by NIPD-CTDR[J]. Adv Parasitol. 2020,110:107-144.
2. Xu TL, Ao MY, Zhou X, Zhu WF, Nie HY, Fang JH, Sun X*, **Zheng B*** and Chen XF*. China's practice to prevent and control COVID-19 in the context of large population movement[J]. Infect Dis Poverty.2020,9(1):115.
3. Zhao W, Xu J, Xiao M, Cao J, Jiang Y, Huang H, **Zheng B*** and Shen Y*. Prevalence and Characterization of Cryptosporidium Species and Genotypes in Four Farmed Deer Species in the Northeast of China[J]. Front Vet Sci.2020,7:430.
4. Xu T-L, Sun Y-W, Feng X-Y, Zhou X-N* and **Zheng B***. Development of miRNA-Based Approaches to Explore the Interruption of Mosquito-Borne Disease Transmission[J]. Front Cell Infect Microbiol. 2021,11:665444.
5. Yan S, Wang D, Zhang JR, Mo XJ, Feng Y, Duan LL, Liu DY, Li F, Dao YH, Zhang T*, Hu W, Feng Z and **Zheng B***. Epidemiological survey of human echinococcosis in east Gansu, China[J]. Sci Rep.2021,11(1):6373.
6. Shi TQ, Shen HM, Chen SB, Kassegne K, Cui YB, Xu B, Chen JH*, **Zheng B*** and Wang Y*. Genetic Diversity and Natural Selection of Plasmodium vivax Duffy Binding Protein-II From China-Myanmar Border of Yunnan Province, China[J]. Front Microbiol. 2021,12:758061.
7. Xiong YH, Xu XN and **Zheng B***. Patented technologies for schistosomiasis control and prevention filed by Chinese applicants[J]. Infect Dis Poverty.2021,10(1):84.
8. Li Z, Xue JB, and **Zheng B***. Tropical Medicine in China: Bibliometric Analysis Based on Web of Science (2010-2019)[J]. J Trop Med.2021,2021:4267230.
9. Wei FR, Gao CH, Wang JY, Yang YT, Shi F, **Zheng B***. Label-Free Quantitative Proteomic Analysis of Three Strains of Viscerotropic Leishmania Isolated from Patients with Different Epidemiological Types of Visceral Leishmaniasis in China[J]. Acta Parasitol.2021,66(4):1366-1386.
10. Lu YJ, Xu YJ, Yu CH, Cheng S, Xia QF *, **Zheng B***. Key molecules regulating the blood meals of Rhipicephalus sanguineus (Acari: Ixodidae) revealed by transcriptomics[J]. Veterinary Research Forum. 2024; 15 (4): 171 – 179.
11. Yang S, Li RY, Yan SN, Yang HY, Cao ZY, Zhang L, Xue JB, Xia ZG, Xia S* and **Zheng B***.

Risk assessment of imported malaria in China: a machine learning perspective[J]. BMC Public Health (2024) 24:865.

12. Cai YC, Xu B, Liu XF, Yang WW, Mo ZR, **Zheng B ***, Chen JX * and Hu W *. Transmission risk evaluation of transfusion blood containing low-density Babesia microti[J]. Front. Cell. Infect. Microbiol. 14:1334426.
13. Liang JR, Yan SN, Yang HY, Yang S, Shen YJ, Huo LL, Cai YC, Mo ZR, **Zheng B ***, Xu B*, and Hu W *. Development and evaluation of fluorescent recombinase polymerase amplification (RPA)-based method for rapid detection of Necator americanus[J]. PLoS Negl Trop Dis 19(4): e0013007.
14. 熊彦红,**郑彬***. 《包虫病诊断标准》(WS257-2006)在四川省实施掌握情况的调查[J]. 中国卫生标准管理,2020,11(7):7-10.
15. 胡坤敏,陈韶红,艾琳,**郑彬***. 豫皖闽浙 4 省溪蟹并殖吸虫囊蚴核糖体 ITS2 和线粒体 CO1 基因序列分析[J]. 中国寄生虫学与寄生虫病杂志,2020,38(1):87-94.
16. 江莉,黄浦雁,吴寰宇,王真瑜,**郑彬**,郭常义. 我国疾病预防控制机构国家认证认可实验室寄生虫(病)检测能力的现状分析[J]. 中国寄生虫学与寄生虫病杂志,2020,38(2):224-233.
17. 刘建秀,高春花,杨玥涛,**郑彬**,汪俊云. 利什曼原虫K26序列应用于我国利什曼原虫分离株鉴定的价值分析[J]. 中国寄生虫学与寄生虫病杂志,2020,38(2):181-187.
18. 李真,**郑彬***. 我国国家级寄生虫病预防控制所在热带医学领域学术影响力及 SWOT 发展策略[J]. 中国热带医学,2020,20(6):589-594.
19. 莫晓彤,夏尚,艾琳,胡坤敏,强焜,**郑彬***. 疟疾风险及其影响因素的研究进展[J]. 中国热带医学,2021,21(5):490-495.
20. 熊彦红,许学年,**郑彬***. 我国血吸虫病防治失效专利分析[J]. 中国血吸虫病防治杂志,2021,33(3):301-304.
21. 莫晓彤,夏尚,艾琳,尹授钦,李希尚,**郑彬***. 在消除阶段我国疟疾风险评估指标体系研究[J]. 中国热带医学,2021,21(6):505-511.
22. 熊彦红,**郑彬***. 中国棘球蚴病防治药物专利技术分析研究[J]. 中国卫生标准管理,2021,12(9):5-9.
23. 熊彦红,**郑彬***,曹建平. 寄生虫获得性感染病原实验室消毒方法的调查研究[J]. 中国病原生物学杂志,2021,16(6):691-695.
24. 孙乃玲,**郑彬**,余宁乐,周晓龙,姚玢洁,卢青青,雷苏文. 国内外公共卫生领域标准化工作管理体制比较与思考[J]. 中华流行病学杂志,2021,42(5):928-934.
25. 吕晓凤, 许娴, 李卫东, 姜静静, 姚立农, 阮卫, 张轩, **郑彬***. 《抗疟药使用规范》（WS/T485—2016）的追踪评价[J]. 中国卫生标准管理, 2022,13(13):6-10.
26. 庞亚男, **郑彬***, 雷苏文, 周水森, 熊彦红, 李真, 俞铖航, 庞兴亚. 《疟疾的诊断》（WS259-2015）标准跟踪评价[J]. 中国卫生标准管理, 2022,13(8):1-4.
27. 强焜,徐斌,胡薇,**郑彬***. 等温扩增技术在疟原虫及巴贝虫检测中的应用[J]. 中国热带医学,2022,22(1):84-88.
28. 严晓岚, 闻礼永, 熊彦红, **郑彬**. 《日本血吸虫抗体检测标准 酶联免疫吸附试验法》解读[J]. 中国寄生虫学与寄生虫病杂志,2022,40(6):798-805.
29. 强焜,徐斌,胡薇, 周瑞敏, 宋鹏, 陈军虎, **郑彬***.荧光重组酶聚合酶扩增技术快速检测田鼠巴贝虫方法建立及初步评价[J].中国热带医学,2022,22(04):305-310.
30. 俞铖航,胡坤敏,李若扬, **郑彬***.《旋毛虫病暴发处理技术规范》实施情况跟踪评价[J].中国卫生标准管理,2023,14(09):6-12.
31. 李梦茹,秦志强,殷堃,梁家瑞,杨硕,**郑彬***.基于环介导等温扩增技术及规则成簇间隔短回文重

复序列的日本血吸虫核酸检测方法的建立及评价[J].中国热带医学,2023,23(07):686-691.

32. 梁家瑞,徐斌,胡薇,李梦茹,杨硕,**郑彬***.基于荧光重组酶聚合酶扩增技术快速检测美洲钩虫方法研究[J].中国热带医学,2023,23(07):681-685.
33. 熊彦红,曹建平,**郑彬***.寄生虫病原实验室生物安全风险评估规范化培训方案建立及探讨[J].热带病与寄生虫学,2023,21(05):291-294.
34. 杨硕,杨汉银,闫书宁,梁家瑞,李梦茹,**郑彬**,等.我国输入性疟疾风险评估方法研究及应用进展[J]. 中华流行病学杂志, 2023,44(11):1820-1824.
35. 杨硕,夏尚,闫书宁,薛靖波,史本云,郝瑜婉,李梦茹,梁家瑞,夏志贵, **郑彬***.基于国际贸易关系的我国输入性疟疾风险来源分析[J].中国寄生虫学与寄生虫病杂志,2023,41(06):744-748+755.
36. 庞兴亚,徐铁龙,**郑彬***.Ⅱ型登革病毒感染对白纹伊蚊生存影响的研究[J].中国热带医学,2024,24(02):196-199.
37. 闫书宁,杨汉银,蔡玉春,徐斌,俞铖航,莫子冉,卢艳,杨硕,辛怡,**郑彬***.基于 RPA-CRISPR/Cas12a 技术的十二指肠钩虫核酸检测方法的建立和评价[J].中国寄生虫学与寄生虫病杂志,2024,42(06):748-755.
38. 闫书宁,杨硕,杨汉银,辛怡,徐斌,胡薇,卢艳,**郑彬***..CRISPR/Cas 系统在寄生虫基因编辑与核酸检测中的应用进展[J].中国血吸虫病防治杂志,2024,36(03):314-320.

专利

1. 一种生物安全性高的捕蚊器；
2. 用于区分鉴定卫氏并殖吸虫囊蚴和斯式并殖吸虫囊蚴的试剂盒和使用方法；
3. 一种用于鉴定三平正并殖吸虫的试剂盒及使用方法；
4. 一种基于重组酶聚合酶扩增技术的田鼠巴贝虫检测方法；
5. 一种基于荧光重组酶聚合酶扩增技术快速检测美洲钩虫的方法。

Profile

Name: Zheng Bin

Gender: Female

Date of birth: June, 1972

Degree: Doctor of Medicine

Title: Research Fellow, Doctoral tutor

Email: zhengbin@nipd.chinacdc.cn

Address: 207 Ruijin Er Road, Shanghai, China

Education

September, 1990-July, 1995 Undergraduate, Department of Preventive Medicine, Bethune Medical University;

September, 2000-July, 2005 Postgraduate in Epidemiology and Health Statistics, Chinese Center for Disease Control and Prevention.

Appointments

July, 1995-August, 2000: Nutritionist, Shijiazhuang People's Hospital, Hebei Province;

July, 2005-Present: Research Fellow in Disease Control, National Institute of Parasitic Diseases, , Chinese Center for Disease Control and Prevention.

Academic Participation and Activities

President of the Shanghai Society of Parasitology;

Member of the Biosafety Branch of Chinese Preventive Medicine Association;

Vice Chairman of the Health and Wellness Standards Committee of the China Standards Association。

Research Direction/Main Research Content

Major and research direction:

1. Molecular epidemiology: including the transmission mechanism of important parasitic diseases, traceability research and establishment of rapid molecular detection technology for parasitic diseases in the field;

2. Health policy research: including parasites disease industry standard system, covering parasitic disease industry standard system, formulation and revision, as well as follow-up evaluation method research and field evaluation;

3. Parasitic Biosafety: focusing on biosafety issues related to parasite conservation and experimental research.

Projects

1. 2015.01-2017.12, Name: The transformation and application of parasitic disease and tropical disease prevention and control technology. Serial number: GWIV-29, Source: Shanghai's three-year action plan.
2. 2018.01-2020.12, Name: The establishment of important parasite standardization identification technology and reference library, Serial number: 2018ZX10734404-004 Source: National science and technology major special projects.
3. 2021.04-2022.03, Name: "Nucleic acid identification method for Entamoeba histolytica, detection" group standard development, Source: Shanghai Association for Science and Technology.
4. 2020.02-2022.12, Name: Shanghai Three-Year Action Plan for Public Health System Construction (2020-2022) Key Discipline Construction: Parasites and Vector Control, Serial number: GW5-10.1 Source: Shanghai's three-year action plan.
5. 2025.02-2026.12, Project Name: Development and Establishment of General Standards System for Parasite Preservation Repository, Project Number: 24DZ2203100, Project Funding Source: Shanghai Science and Technology Commission.

Publications

papers published since 2020

1. Fua MH, Han Shuai, Xue CZ et al.Contribution to the echinococcosis control programme in China by NIPD-CTDR[J]. Adv Parasitol. 2020,110:107-144.

2. Xu TL, Ao MY, Zhou X, Zhu WF, Nie HY, Fang JH, Sun X*, **Zheng B*** and Chen XF*. China's practice to prevent and control COVID-19 in the context of large population movement[J]. Infect Dis Poverty.2020,9(1):115.

3. Zhao W, Xu J, Xiao M, Cao J, Jiang Y, Huang H, **Zheng B*** and Shen Y*. Prevalence and Characterization of Cryptosporidium Species and Genotypes in Four Farmed Deer Species in the Northeast of China[J]. Front Vet Sci.2020,7:430.

4. Xu T-L, Sun Y-W, Feng X-Y, Zhou X-N* and **Zheng B***. Development of miRNA-Based Approaches to Explore the Interruption of Mosquito-Borne Disease Transmission[J]. Front Cell Infect Microbiol. 2021,11:665444.

5. Yan S, Wang D, Zhang JR, Mo XJ, Feng Y, Duan LL, Liu DY, Li F, Dao YH, Zhang T*, Hu W, Feng Z and **Zheng B***. Epidemiological survey of human echinococcosis in east Gansu, China[J]. Sci Rep.2021,11(1):6373.

6. Shi TQ, Shen HM, Chen SB, Kassegne K, Cui YB, Xu B, Chen JH*, **Zheng B*** and Wang Y*. Genetic Diversity and Natural Selection of Plasmodium vivax Duffy Binding Protein-II From

China-Myanmar Border of Yunnan Province, China[J]. Front Microbiol. 2021,12:758061.

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9. Wei FR, Gao CH, Wang JY, Yang YT, Shi F, **Zheng B***. Label-Free Quantitative Proteomic Analysis of Three Strains of Viscerotropic Leishmania Isolated from Patients with Different Epidemiological Types of Visceral Leishmaniasis in China[J]. Acta Parasitol.2021,66(4):1366-1386.

10. Lu YJ, Xu YJ, Yu CH, Cheng S, Xia QF *, **Zheng B***. Key molecules regulating the blood meals of Rhipicephalus sanguineus (Acari: Ixodidae) revealed by transcriptomics[J]. Veterinary Research Forum. 2024; 15 (4): 171 – 179.

11. Yang S, Li RY, Yan SN, Yang HY, Cao ZY, Zhang L, Xue JB, Xia ZG, Xia S* and **Zheng B***. Risk assessment of imported malaria in China: a machine learning perspective[J]. BMC Public Health (2024) 24:865.

12. Cai YC, Xu B, Liu XF, Yang WW, Mo ZR, **Zheng B***, Chen JX * and Hu W *. Transmission risk evaluation of transfusion blood containing low-density Babesia microti[J]. Front. Cell. Infect. Microbiol. 14:1334426.

13. Liang JR, Yan SN, Yang HY, Yang S, Shen YJ, Huo LL, Cai YC, Mo ZR, **Zheng B***, Xu B*, and Hu W *. Development and evaluation of fluorescent recombinase polymerase amplification (RPA)-based method for rapid detection of Necator americanus[J]. PLoS Negl Trop Dis 19(4): e0013007.

14. Xiong YH, **Zheng B***. Investigation on Implementation of Diagnostic Criteria for Echinococcosis (WS257-2006) in Sichuan Province[J]. china health standard management, 2020,11(7):7-10.

15. Hu KM, Chen SH, Ai L, **Zheng B***. Sequence analysis of ribosomal ITS2 gene and mitochondrial CO1 gene of Paragonimus metacercariae from freshwater crabs in Henan, Anhui, Fujian and Zhejiang provinces, China[J]. chinese journal of parasitology and parasitic diseases, 2020, 38(1): 87-94.

16. Li J, Huang PY, Wu HY, Wang ZY, **Zheng B***. Current status of institutional capabilities of officially accredited and approwed laboratories in detecting parasites-parasitic diseases in China[J]. Chin J Parasitol Parasit Dis, 2020,38(2):224-233.

17. Liu JX, Gao CH, Yang YT, **Zheng B**, Wang JY**. Evaluation of the value of K26 sequence applied in identification of Leishmania isolates in China[J]. chinese journal of parasitology and parasitic diseases, 2020, 38(2): 181-187.

18. Li Z, **Zheng B***. SWOT strategy and academic impact of the National Institute of Parasitic Diseases

on the tropical medicine[J]. China Tropical Medicine, 2020,20(6):589-594.

19. Mo XT, Xia S, Ai L, Hu KM, Qing K, **Zheng B***. Research progress in malaria risk and its influencing factoes[J]. China Tropical Medicine, 2021,21(5):490-495.

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22. Xiong YH, **Zheng B***. The Analytical Research on Patented Technology of Drugs for Echinococcosis Prevention and Control in China[J]. china health standard management, 2021,12(9):5-9.

23. Xiong YH, **Zheng B**, Cao JP*. A survey on the disimfection of pathogens causing acquired oarasitic infections in laboratories[J]. Journal of Pathogen Biology, 2021,16(6):691-695.

24. Sun NL, **Zheng B**, Yu NL, Zhou XL, Yao MJ, Lu QQ, Lei SW. Comparison and reflection of standardization of public health management system both at homeandabroad[J]. Chin J Epidemiol, 2021,42(5):928-934.

25. Lyu XF, Xu X, Li WD, Jiang JJ, Yao LN, Ruan W, Zhang X, **Zheng B***. Tracking and Evaluation of Technical Regulations for Application of Antimalarials (WS/T485-2016) [J]. china health standard management, 2021,42(5):928-934.

26. Pang YN, **Zheng B***, LEI S, Zhou SS, Xiong YH, Li Z, Yu CH, Pang XY. Tracking Evaluation on Implementation of Diagnosis of Malaria (WS259-2015) [J]. china health standard management, 2022,13(8):1-4.

27. Qiang K, Xu B, Hu W, **Zheng B***. Application of isothermal amplification technology in the detection of Plasmodium and babesia [J]. China Tropical Medicine, 2022, 22(1): 84-88.

28. Yan XL, Wen LY, Xiong YH, **Zheng B**, et al. Interpretation of the "Standard for Detection of Schistosoma japonicum Antibody - Enzyme-Linked Immunosorbent Assay" [J]. Chinese Journal of Parasitology and Parasitic Diseases, 2022, 40(6): 798-805.

29. Qiang K, Xu B, Hu W, Zhou RM, Song P, Chen JH, **Zheng B***. Establishment and Preliminary Evaluation of a Rapid Detection Method for Babesia microti in Field Mice by Fluorescent Recombinase Polymerase Amplification Technology [J]. Chinese Journal of Tropical Medicine, 2022, 22(04): 305-310.

30. Yu CH, Hu KM, Li RY, **Zheng B***. Follow-up Evaluation on the Implementation of the Technical Specifications for Trichinosis Outbreak Management [J]. Chinese Health Standards Management, 2023,

14(09): 6-12.

31. Li MR, Qin ZQ, Yin K, Liang JR, Yang S, **Zheng B***. Establishment and Evaluation of a Nucleic Acid Detection Method for Schistosoma japonicum Based on Loop-mediated Isothermal Amplification and CRISPR Technology [J]. Chinese Journal of Tropical Medicine, 2023, 23(07): 686-691.

32. Liang JR, Xu B, Hu W, Li MR, Yang S, **Zheng B***. Research on a Rapid Detection Method for Necator americanus Based on Fluorescent Recombinase Polymerase Amplification Technology [J]. Chinese Journal of Tropical Medicine, 2023, 23(07): 681-685.

33. Xiong YH, Cao JP, **Zheng B***. Establishment and Discussion on a Standardized Training Program for Laboratory Biosafety Risk Assessment of Parasitic Diseases [J]. Tropical Diseases and Parasitology, 2023, 21(05): 291-294.

34. Yang S, Yang HY, Yan SN, Liang JR, Li MR, **Zheng B***, et al. Research and Application Progress on Risk Assessment Methods for Imported Malaria in China [J]. Chinese Journal of Epidemiology, 2023, 44(11): 1820-1824.

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Patents

1. A biosecurity mosquito catcher;
2. A kit and method for the distinguishing and identification of P.westermani and P. skrjabini.;
3. A kit and method for the identification of Euparagonimus cenocopiosus.
4. A detection method for Mus musculus Babesia based on recombinase polymerase amplification technology;
5. A rapid detection method for American hookworm based on fluorescence recombinase polymerase amplification technology.