个人简介

姓名： **洪炀**

性别： **男**

出生年月：1983.7

学位/学历：博士/研究生

职称： **研究员**

电子邮件：hongyang_7@126.com

办公地址：上海市黄浦区瑞金二路 207 号

办公电话：

教育经历

(1) 2006-09 至 2011-06，南京农业大学，预防兽医学，博士

(2) 2002-09 至 2006-07，南京农业大学，动物医学，学士

工作经历

(1) 2022-07 至 今，中国疾病预防控制中心寄生虫病预防控制所（国家热带病研究中心），寄生虫病原与媒介生物学重点实验室，研究员

(2) 2022-03 至 2022-06，中国疾病预防控制中心寄生虫病预防控制所（国家热带病研究中心），寄生虫病原与媒介生物学重点实验室，副研究员

(3) 2017-12 至 2022-02，中国农业科学院上海兽医研究所，血吸虫病研究室，副研究员

(4) 2017-09 至 2017-12，国际家畜研究所，动物和人类健康中心，访问学者

(5) 2016-11 至 2017-09，中国农业科学院上海兽医研究所，血吸虫病研究室，副研究员

(6) 2015-11 至 2016-11，美国布朗大学，国际健康研究中心，访问学者

(7) 2014-01 至 2015-10，中国农业科学院上海兽医研究所，血吸虫病研究室，副研究员

(8) 2013-07 至 2013-12，中国农业科学院上海兽医研究所，血吸虫病研究室，助理研究员

(9) 2011-07 至 2013-06，中国农业科学院上海兽医研究所，博士后

社会/学术任职和活动

中国畜牧兽医学会兽医寄生虫学分会 理事；

《Molecular and Biochemical Parasitology》杂志编委（Editorial Board）；

《中国寄生虫学与寄生虫病杂志》 青年编委；

《中国血吸虫病防治杂志》 青年编委

研究方向/主要研究内容

近年来主要从事人畜共患寄生虫病的病原学及防控技术研究，在血吸虫中，应用免疫蛋白组学技术，首次对东方田鼠血清特异识别的童虫靶蛋白和有诊断价值的体被蛋白进行分析鉴定，利用 iTRAQ 标记技术对童虫和成虫排泄分泌蛋白组进行了比较分析，获得多个有深入研究价值的蛋白分子。为阐述血吸虫与宿主的相互作用机制提供了实验依据，为诊断和免疫预防研究取得突破提供了新思路。基于前期分离鉴定的血浆游离核酸信息，建立了日本血吸虫病的 qPCR 和 RPA-LFD 分子诊断方法，均具有较好的敏感性及特异性，为实验室、现场诊断及对血吸虫病的疗效考核提供了新方法。此外，利用等温扩增技术，建立了华支睾吸虫、广州管圆线虫等核酸诊断方法，为这些疾病的诊断提供了新手段。

科研/教学研究项目

（1）上海市自然科学基金科学委员会，19ZR1468900，日本血吸虫雌雄虫相互识别蛋白分析，2019-07 至 2022-06，20 万元，已结题，主持

（2）国家自然科学基金委员会，青年基金，31402192，不同适宜性宿主体内日本血吸虫童虫磷酸化蛋白的比较蛋白质组学分析，2015-01 至 2017-12，25 万元，已结题，主持

（3）中国博士后科学基金会，面上资助，2012M510630，东方田鼠抗日本血吸虫靶抗原的鉴定及机制研究，2012-05 至 2013-07，5 万元，已结题，主持

（4）中央级公益性科研院所基本科研业务费，2013JB18，基于体被抗原免疫蛋白组学的日本血吸虫病 ELISA 检测技术研究，2013-01 至 2014-12，16 万元，已结题，主持

（5）国家自然科学基金委员会，青年基金，81401692，宿主 miRNAs 调节血吸虫早期感染天然免疫应答机制研究，2015-01 至 2017-12，23 万元，已结题，参加

（6）国家自然科学基金委员会，面上项目，81271871，日本血吸虫凋亡现象观察与分析，2013-01 至 2016-12，70 万元，已结题，参加

（7）美国国立卫生研究院（NIH），R01 项目，5R01AI101274-03，Schistosome Vaccines，2015-05 至 2016-04，12 万美元，已结题，参加

主要学术成果

期刊论文

1. **Yang Hong**[1], Qinghong Guo[1], Xue Zhou, Liying Tang, Cheng Chen, Zheng Shang, Kerou Zhou, Zhizhong Zhang, Jinming Liu, Jiaojiao Lin, Bin Xu, Jun-Hu Chen*, Zhiqiang Fu, Wei Hu*. Two Molecular Plasma-Based Diagnostic Methods to Evaluate Early Infection of *Schistosoma japonicum* and Schistosomiasis Japonica. Microorganisms, 2023, 11 (4): 1059.
2. **Yang Hong**, Kokouvi Kassegne, Moses Okpeku, Bin Zheng, Jun-Hu Chen. Editorial: Control and prevention of tropical diseases by advanced tools and the One Health approach. Front Microbiol, 2023, 14: 1289224.
3. Cheng Chen, Xue Zhou, Qinghong Guo, Chao Lv, Yalan Tang, Qingqing Guo, Yang Chen, Kerou Zhou, Zhiqiang Fu., Jinming Liu, Jiaojiao Lin, **Yang Hong***, Jun-Hu Chen*. Diagnostic Efficacy of Plasma-Based Real-Time PCR for Schistosomiasis Japonica in Mice before and after Treatment with Praziquantel. Animals (Basel), 2023, 13 (19).
4. Xingang Yu, Hongcai Wang, Yilong Li, Xuanru Mu, Kaijian Yuan, Anfeng Wu, Jianchao Guo, **Yang Hong***, Haoji Zhang*. Occurrence and Genotypic Identification of *Blastocystis* spp., *Enterocytozoon bieneusi*, and *Giardia duodenalis* in Leizhou Black Goats in Zhanjiang City, Guangdong Province, China. Animals (Basel), 2023, 13 (17).
5. Xue Zhou, **Yang Hong***, Zheng Shang, Asmaa M. I. Abuzeid, Jiaojiao Lin*, Guoqing Li*. The Potential Role of MicroRNA-124-3p in Growth, Development, and Reproduction of *Schistosoma japonicum*. Front Cell Infect Microbiol, 2022, 12: 862496.
6. Zheng Shang, Qinghong Guo, Xue Zhou, Yongcheng Yue, Kerou Zhou, Liying Tang, Zhizhong Zhang, Zhiqiang Fu, Jinming Liu, Jiaojiao Lin, Bin Xu, Min Zhang*, **Yang Hong***. Characterization of aspartyl aminopeptidase from *Schistosoma japonicum*. Acta Trop, 2022, 232: 106519.
7. Yalan Tang, Kerou Zhou, Qingqing Guo, Cheng Chen, Jing Jia, Qinghong Guo, Ke Lu, Hao Li, Zhiqiang Fu, Jinming Liu, Jiaojiao Lin, Xingang Yu*, **Yang Hong***. Characterisation and preliminary functional analysis of N-acetyltransferase 13 from *Schistosoma japonicum*. BMC Vet Res, 2021, 17 (1): 335.
8. Yixiao Tang, Yuanxi Shen, **Yang Hong***, Zuhang Zhang, Qi Zhai, Zhiqiang Fu, Hao Li, Ke Lu, Jiaojiao Lin*. miR-181a regulates the host immune response against *Schistosoma japonicum* infection through the TLR4 receptor pathway. Parasit Vectors, 2021, 14 (1): 548.
9. Gongming Li, Qingqing Guo, Chao Feng, Huan Chen, Wenjiao Zhao, Shu Li, **Yang Hong***, Dequn Sun*. Synthesis of oxadiazole-2-oxide derivatives as potential drug candidates for schistosomiasis targeting SjTGR. Parasit Vectors, 2021, 14 (1): 225.
10. Cheng Chen[1], Qinghong Guo[1], Zhiqiang Fu, Jinming Liu, Jiaojiao Lin, Kai Xiao, Pengxiang Sun, Xiaonan Cong, Runxia Liu, **Yang Hong***. Reviews and advances in diagnostic research on Schistosoma japonicum. Acta Trop, 2021, 213: 105743.
11. Qinghong Guo, Kerou Zhou, Cheng Chen, Yongcheng Yue, Zheng Shang, Keke Zhou, Zhiqiang Fu, Jinming Liu, Jiaojiao Lin, Chenyang Xia, Wenqiang Tang, Xiaonan Cong, Xuejun Sun, **Yang**

Hong*. Development of a Recombinase Polymerase Amplification Assay for Schistosomiasis Japonica Diagnosis in the Experimental Mice and Domestic Goats. Front Cell Infect Microbiol, 2021, 11: 791997.

12. Qinghong Guo, Cheng Chen, Keke Zhou, Yugang Li, Laibao Tong, Yongcheng Yue, Kerou Zhou, Jinming Liu, Zhiqiang Fu, Jiaojiao Lin, Jiaxi Zhao, Pengxiang Sun, **Yang Hong***. Evaluation of a real-time PCR assay for diagnosis of schistosomiasis japonica in the domestic goat. Parasit Vectors, 2020, 13 (1): 535.
13. Xingang Yu, Qi Zhai, Zhiqiang Fu, **Yang Hong***, Jinming Liu, Hao Li, Ke Lu, Chuangang Zhu, Jiaojiao Lin*, Guoqing Li*, Comparative analysis of microRNA expression profiles of adult *Schistosoma japonicum* isolated from water buffalo and yellow cattle. Parasit Vectors, 2019, 12 (1): 196.
14. Qi Zhai, Zhiqiang Fu, **Yang Hong***, Xingang Yu, Qian Han, Ke Lu, Hao Li, Xuefeng Dou, Chuangang Zhu, Jinming Liu, Jiaojiao Lin*, Guoqing Li*. iTRAQ-Based Comparative Proteomic Analysis of Adult *Schistosoma japonicum* from Water Buffalo and Yellow Cattle. Front Microbiol, 2018, 9: 99.
15. Chao Lv, Zhiqiang Fu, Ke Lu, Ruili Yue, Tao Wang, Xiaodan Cao, Chuangang Zhu, Hao Li, **Yang Hong***, Jiaojiao Lin*. A perspective for improving the sensitivity of detection: The application of multi-epitope recombinant antigen in serological analysis of buffalo schistosomiasis. Acta Trop, 2018, 183: 14-18.
16. **Yang Hong**, Zhiqiang Fu, Xiaodan Cao, Jiaojiao Lin*. Changes in microRNA expression in response to *Schistosoma japonicum* infection. Parasite Immunol, 2017, 39(2): e12416
17. **Yang Hong**, Xiaodan Cao, Qian Han, Chunxiu Yuan, Min Zhang, Yanhui Han, Chuangang Zhu, Tao Lin, Ke Lu, Hao Li, Zhiqiang Fu*, Jiaojiao Lin*. Proteome-wide analysis of lysine acetylation in adult *Schistosoma japonicum* worm. J Proteomics, 2016, 148: 202-212.
18. Xiaodan Cao, Zhiqiang Fu, Min Zhang, Yanhui Han, Qian Han, Ke Lu, Hao Li, Chuangang Zhu, **Yang Hong***, Jiaojiao Lin*. Excretory/secretory proteome of 14-day schistosomula, *Schistosoma japonicum*. J Proteomics, 2016, 130: 221-230.
19. Xiaodan Cao, Zhiqiang Fu, Min Zhang, Yanhui Han, Han Hongxiao, Qian Han, Ke Lu, **Yang Hong***, Jiaojiao Lin*. iTRAQ-based comparative proteomic analysis of excretory-secretory proteins of schistosomula and adult worms of *Schistosoma japonicum*. J Proteomics, 2016, 138: 30-39.
20. Min Zhang, Zhiqiang Fu, Changjian Li, Yanhui Han, Xiaodan Cao, Hongxiao Han, Yantao Liu, Ke Lu, **Yang Hong***, Jiaojiao Lin*. Screening diagnostic candidates for schistosomiasis from tegument proteins of adult *Schistosoma japonicum* using an immunoproteomic approach, PLoS NTD, 2015, 9 (2): e0003454.
21. **Yang Hong**, Min Zhang, Jianmei Yang, Xiaodan Cao, Qian Han, Yanhui Han, Chunhui Qiu, Chuangang Zhu, Ke Lu, Hao Li, Zhiqiang Fu, Jiaojiao Lin. Immunoproteomic analysis of *Schistosoma japonicum* schistosomulum proteins recognized by immunoglobulin G in the sera of susceptible and non-susceptible hosts. J Proteomics, 2015, 124: 25-38.
22. **Yang Hong**[1], Lini Huang[1], Jianmei Yang, Xiaodan Cao, Qian Han, Min Zhang, Yanhui Han, Zhiqiang Fu, Chuangang Zhu, Ke Lu, Xiangrui Li, Jiaojiao Lin. Cloning, expression and

enzymatic characterization of 3-phosphoglycerate kinase from *Schistosoma japonicum*. Exp Parasitol, 2015, 159: 37-45.

23. **Yang Hong**[1], Anguo Sun[1], Min Zhang, Fei Gao, Yanhui Han, Zhiqiang Fu, Yaojun Shi, Jiaojiao Lin. Proteomics analysis of differentially expressed proteins in schistosomula and adult worms of *Schistosoma japonicum*. Acta Trop, 2013, 126(1): 1-10.
24. **Yang Hong**, Yanhui Han, Zhiqiang Fu, Hongxiao Han, Chunhui Qiu, Min Zhang, Jianmei Yang, Yaojun Shi, Xiangrui Li, Jiaojiao Lin. Characterization and expression of the *Schistosoma japonicum* thioredoxin peroxidase-2 gene. J Parasitol, 2013, 99(1): 68-76.
25. **Yang Hong**, Hongxiao Han, Jinbiao Peng, Ye Li, Yaojun Shi, Zhiqiang Fu, Jinming Liu, Jiaojiao Lin, Xiangrui Li. *Schistosoma japonicum*: Cloning, expression and characterization of a gene encoding the α5-subunit of the proteasome. Exp Parasitol, 2010, 126(4): 517-525.
26. **Yang Hong**, Jinbiao Peng, Weibin Jiang, Zhiqiang Fu, Jinming Liu, Yaojun Shi, Xiangrui Li, Jiaojiao Lin. Proteomic analysis of *Schistosoma japonicum* schistosomulum proteins that are differentially expressed among hosts differing in their susceptibility to the infection. Molecular & Cellular Proteomics, 2011, 10(8): M110006098

著作

1. 《动物日本血吸虫病学》，中国农业出版社，副主编，2022
2. 《中国西藏动物寄生虫名录》，中国农业科学技术出版社，编委，2022
3. 《兔常见病特征与防控知识集要》，中国农业科学技术出版社，副主编，2016
4. 《家畜血吸虫病》，中国农业出版社，编委，2015

专利

1. 日本血吸虫 NAT13 基因的 siRNA 及其应用，专利号：ZL201910205094.9，授权日期：2022.04.12;
2. 日本血吸虫重组多表位抗原及其应用，专利号：ZL201510706078.X，授权日期：2020.09.11，第四发明人；
3. 日本血吸虫重组蛋白及其制备方法和应用，专利号：ZL201410542075.2，授权日期：2020.03.24，第五发明人。

荣誉及奖项

（1）中国农业科学院 2012 年度优秀博士后。

（2）获取国家公派出国留学资格。

Profile

Name： Yang Hong

Gender： Male

Date of birth： July, 1983

Degree： PhD

Title： Professor

Email： hongyang_7@126.com

Address： 207 Ruijin Er Road, Shanghai, China

Office Tel：

Education

(1) 2006/09-2011/06, PhD in Preventive Veterinary Medicine, Nanjing Agricultural University

(2) 2002/09-2006/07, Bachelor's degree in Animal Medicine, Nanjing Agricultural University

Appointments

(1) 2022-07 up to now, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention (Chinese Center for Tropical Diseases Research); NHC Key Laboratory of Parasite and Vector Biology, Professor

(2) 2022/03-2022/06, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention (Chinese Center for Tropical Diseases Research); NHC Key Laboratory of Parasite and Vector Biology, Associate Professor

(3) 2017/12-2022/02, National Reference Laboratory for Animal Schistosomiasis, Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences, Associate Professor

(4) 2017/09-2017/12, Animal and Human Health, International Livestock Research Institute, Visiting Scholar

(5) 2016/11-2017/09, National Reference Laboratory for Animal Schistosomiasis, Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences, Associate Professor

(6) 2015/11-2016/11, Center for International Health Research Center, Brown University, Visiting Scholar

(7) 2014/01-2015/10, National Reference Laboratory for Animal Schistosomiasis, Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences, Associate Professor

(8) 2013/07-2013/12, National Reference Laboratory for Animal Schistosomiasis, Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences, research associate

(9) 2011/07-2013/06, Shanghai Veterinary Research Institute, Chinese Academy of Agricultural Sciences, Postdoctor

Academic Participation and Activities

《Molecular and Biochemical Parasitology》 Editorial Board；

《Chinese Journal of Parasitology and Parasitic Diseases》Youth Editorial Board；
《Chinese Journal of Schistosomiasis Control》Youth Editorial Board

Research Interest

In recent years, I am focus on the etiology and prevention and control techniques of zoonotic parasitic diseases. In *Schistosoma japonicum*, immunogenic schistosomula proteins were searched in the hope of identifying novel intervention targets. Schistosomula proteins were analyzed by immunoproteomic which the probes were sera derived from *Microtus fortis* (resistant hosts). The excretory–secretory proteins of schistosomula and adult worms of *Schistosoma japonicum* were analyzed by iTRAQ-based comparative proteomic. It provided new insights into the survival and development of schistosomes in the final host and helps identify vaccine candidates or new diagnostic reagents for schistosomiasis. Based on the cell free nucleic acid information obtained in plasma, qPCR and RPA-LFD diagnostic methods were established for schistosomiasis japonica, and both of them possessed good sensitivity and specificity. This provides new diagnostic methods for efficacy assessment of schistosomiasis in laboratory and POCT. In addition, isothermal amplification technology was used to establish nucleic acid diagnostic methods for some zoonotic parasites, such as *Clonorchis sinensis* and *Angiostrongylus cantonensis*. It provided new means for the diagnosis of these diseases.

Projects

1. the Natural Science Foundation of Shanghai, 19ZR1468900, Analysis of mutual recognization proteins between male and female *Schistosoma japonicum*, 2019/07-2022/06, Project leader
2. the Natural Science Foundation of China, 31402192, Phosphoproteomics analysis of schistosomula proteins of *Schistosoma japonicum* in hosts with different susceptibilities to the infection, 2015/01-2017/12, Project leader
3. China Postdoctoral Science Foundation, 2012M510630, Identification and Mechanism Study of Target Antigens Against *Schistosoma japonicum* in *Microtus fortis*，2012/05-2013/07, Project leader
4. Basic scientific research operation cost of state-level public welfare scientific research courtyard, 2013JB18, Research on ELISA Detection Technology for Schistosomiasis japonica Based on Immunoproteomics of Tegument Antigen，2013/01-2014/12, Project leader

5. the Natural Science Foundation of China, 81401692, The mechanistic study of host miRNAs modulating innate immunity in the early phase of *Schistosoma japonicum* infection, 2015/01-2017/12, Participation

6. the Natural Science Foundation of China, 81271871, Observation and analysis of apoptosis in *Schistosoma japonicum*，2013/01-2016/12, Participation

7. NIH Research Project Grant Program (R01), 5R01AI101274-03, Schistosome Vaccines, 2015/05-2016/04, Participation

Publications

1. **Yang Hong**[1], Qinghong Guo[1], Xue Zhou, Liying Tang, Cheng Chen, Zheng Shang, Kerou Zhou, Zhizhong Zhang, Jinming Liu, Jiaojiao Lin, Bin Xu, Jun-Hu Chen*, Zhiqiang Fu, Wei Hu*. Two Molecular Plasma-Based Diagnostic Methods to Evaluate Early Infection of *Schistosoma japonicum* and Schistosomiasis Japonica. Microorganisms, 2023, 11 (4): 1059.
2. **Yang Hong**, Kokouvi Kassegne, Moses Okpeku, Bin Zheng, Jun-Hu Chen. Editorial: Control and prevention of tropical diseases by advanced tools and the One Health approach. Front Microbiol, 2023, 14: 1289224.
3. Cheng Chen, Xue Zhou, Qinghong Guo, Chao Lv, Yalan Tang, Qingqing Guo, Yang Chen, Kerou Zhou, Zhiqiang Fu., Jinming Liu, Jiaojiao Lin, **Yang Hong***, Jun-Hu Chen*. Diagnostic Efficacy of Plasma-Based Real-Time PCR for Schistosomiasis Japonica in Mice before and after Treatment with Praziquantel. Animals (Basel), 2023, 13 (19).
4. Xingang Yu, Hongcai Wang, Yilong Li, Xuanru Mu, Kaijian Yuan, Anfeng Wu, Jianchao Guo, **Yang Hong***, Haoji Zhang*. Occurrence and Genotypic Identification of *Blastocystis* spp., *Enterocytozoon bieneusi*, and *Giardia duodenalis* in Leizhou Black Goats in Zhanjiang City, Guangdong Province, China. Animals (Basel), 2023, 13 (17).
5. Xue Zhou, **Yang Hong***, Zheng Shang, Asmaa M. I. Abuzeid, Jiaojiao Lin*, Guoqing Li*. The Potential Role of MicroRNA-124-3p in Growth, Development, and Reproduction of *Schistosoma japonicum*. Front Cell Infect Microbiol, 2022, 12: 862496.
6. Zheng Shang, Qinghong Guo, Xue Zhou, Yongcheng Yue, Kerou Zhou, Liying Tang, Zhizhong Zhang, Zhiqiang Fu, Jinming Liu, Jiaojiao Lin, Bin Xu, Min Zhang*, **Yang Hong***. Characterization of aspartyl aminopeptidase from *Schistosoma japonicum*. Acta Trop, 2022, 232: 106519.
7. Yalan Tang, Kerou Zhou, Qingqing Guo, Cheng Chen, Jing Jia, Qinghong Guo, Ke Lu, Hao Li, Zhiqiang Fu, Jinming Liu, Jiaojiao Lin, Xingang Yu*, **Yang Hong***. Characterisation and preliminary functional analysis of N-acetyltransferase 13 from *Schistosoma japonicum*. BMC Vet Res, 2021, 17 (1): 335.
8. Yixiao Tang, Yuanxi Shen, **Yang Hong***, Zuhang Zhang, Qi Zhai, Zhiqiang Fu, Hao Li, Ke Lu,

Jiaojiao Lin*. miR-181a regulates the host immune response against *Schistosoma japonicum* infection through the TLR4 receptor pathway. Parasit Vectors, 2021, 14 (1): 548.

9. Gongming Li, Qingqing Guo, Chao Feng, Huan Chen, Wenjiao Zhao, Shu Li, **Yang Hong***, Dequn Sun*. Synthesis of oxadiazole-2-oxide derivatives as potential drug candidates for schistosomiasis targeting SjTGR. Parasit Vectors, 2021, 14 (1): 225.
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12. Qinghong Guo, Cheng Chen, Keke Zhou, Yugang Li, Laibao Tong, Yongcheng Yue, Kerou Zhou, Jinming Liu, Zhiqiang Fu, Jiaojiao Lin, Jiaxi Zhao, Pengxiang Sun, **Yang Hong***. Evaluation of a real-time PCR assay for diagnosis of schistosomiasis japonica in the domestic goat. Parasit Vectors, 2020, 13 (1): 535.
13. Xingang Yu, Qi Zhai, Zhiqiang Fu, **Yang Hong***, Jinming Liu, Hao Li, Ke Lu, Chuangang Zhu, Jiaojiao Lin*, Guoqing Li*, Comparative analysis of microRNA expression profiles of adult *Schistosoma japonicum* isolated from water buffalo and yellow cattle. Parasit Vectors, 2019, 12 (1): 196.
14. Qi Zhai, Zhiqiang Fu, **Yang Hong***, Xingang Yu, Qian Han, Ke Lu, Hao Li, Xuefeng Dou, Chuangang Zhu, Jinming Liu, Jiaojiao Lin*, Guoqing Li*. iTRAQ-Based Comparative Proteomic Analysis of Adult *Schistosoma japonicum* from Water Buffalo and Yellow Cattle. Front Microbiol, 2018, 9: 99.
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Books

1. Schistosomiasis japonica in animals, 2022;
2. Schistosomiasis japonica in Domestic Animals, 2015

Patents

Honors and Awards

1. Outstanding Postdoctoral Fellow of the Chinese Academy of Agricultural Sciences in 2012.
2. Obtaining the qualification for national scholarship to study abroad.