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| **个人简介** | 蔡玉春 |
| **姓名：蔡玉春**  **性别: 女**  **出生年月：1983.08.10**  **学位/学历：博士研究生**  **职称：副研究员**  **电子邮件：caiyc@nipd.chinacdc.cn**  **办公地址：上海市黄浦区瑞金二路207号** |
| **教育经历** | |
| 2021/9-2024/7, 中国疾病预防控制中心，免疫学，博士  2007/9 - 2010/7，中国疾病预防控制中心，免疫学，硕士  2003/9 - 2007/7，山东大学，生物技术，学士 | |
| **工作经历** | |
| 2018/07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）， 副研究员  2014/07-2018/07 中国疾病预防控制中心寄生虫病预防控制所， 助理研究员  2010/07-2014/07 中国疾病预防控制中心寄生虫病预防控制所， 研究实习员 | |
| **社会/学术任职和活动** | |
| 1.中国人兽共患病学报杂志编委；  2.疾病预防控制通报编委；  3.中国寄生虫学与寄生虫病杂志青年编委；  4.上海市“医苑新星”健康科普讲师；  5.中国医师协会感染科医师分会寄生虫病学组组员 | |
| **研究方向/主要研究内容** | |
| 1.寄生虫病防治、食源性寄生虫病、血液原虫病的检测及鉴定技术研究；  2.血液原虫（巴贝虫等）功能基因组及其应用研究；  3.寄生虫与宿主相互作用关系及致病机制研究。  4. 蜱及蜱传寄生虫病研究。 | |
| **科研/教学研究项目** | |
| 1.国家科技部项目 国家寄生虫资源库建设（2020-2025），国家级，秘书组成员；  2.上海市自然科学基金（21ZR1469900）AMA1-RON2复合物调控田鼠巴贝虫入侵宿主红细胞的作用及机制研究，2021-2024，省部级，主持；  3.2021年度“科技创新行动计划”科普专项项目（21DZ2303700）《《美食与寄生虫病》医学科普教育课程和课件的开发及应用， 2021-2022，省部级，主持。 | |
| **主要学术成果** | |
| **期刊论文**  1. **Yu chun Cai** #, Chun li Yang#, Wei Hu , Peng Song, Bin Xu, Yan Lu, Lin Ai, Yan hong Chu, Mu xin Chen, Jia xu Chen\*, Shao hong Chen\*. Molecular Characterization and Immunological Evaluation of Truncated Babesia microti Rhoptry Neck Protein 2 (BmRON2) as a Vaccine Candidate. Frontiers in Immunology, Front Immunol. 2021 ,12:616343.**(IF 8.787**)  2.**Yu chun Cai,** Fen Wu, Wei Hu, Jiaxu Chen, Shao hong Chen, Bin Xu, Yan Lu, Lin Ai，Chun li Yang, Shimin Zhao\*. Molecular Characterization of *Babesia microti* Seroreactive Antigen 5-1-1 and Development of Rapid Detection Methods for Anti-*B. microti* Antibodies in Serum, Acta Tropica, 2018, 185: 371-379. **(IF 2.629**)  **3.Yuchun Cai#**, Bin Xu#, Xiufeng Liu, Wenwu Yang, Ziran Mo, Bin Zheng\*, Jiaxu Chen**\***, Wei Hu\*. Transmission risk evaluation of transfusion blood containing low-density *Babesia microti*，Front Cell Infect Microbiol. 2024 Feb 5:14:1334426. doi: 10.3389/fcimb.2024.1334426. eCollection 2024. **(IF 4.6**)  4.**Cai YC**, Yang CL, Song P, Chen M, Chen JX. The protective effects of BMSA1 and BMSA5-1-1 proteins against Babesia microti infection. Parasites Hosts Dis. 2024 Feb;62(1):53-63. doi: 10.3347/PHD.23077. Epub 2024 Feb 23. PMID: 38443770; PMCID: PMC10915264. **(IF 1.3**)  5. CAI Yuchun, XU Bin, CHU Yanhong, YU Yingfang, SUN Jiahui, MO Ziran1, YANG Hanyin, YAN Shuning, CHEN Muxin\*, CHEN Jiaxu\*. Proteomic Identification and Functional Analysis of *Babesia microti* Reveals Heparin-Binding Proteins. *Journal of Tropical Medicine*. 2025. 8821002. **(IF 2.5**)  **著作**  1. 《临床微生物学手册（第11版）》中华医学电子音像出版社，2017.06  2. 《临床检验一万个为什么》病原检验分册，人民卫生出版社，2017.09  **专利**  1. 胡薇、殷明波、刘骁、洪清华、王韵丞、张瑞祥、李健、李鸿雁、陈木新、蔡玉春、徐斌、刘秀凤、陈家旭、王敬文. 检测锥虫属原虫的特异性引物及检测方法和应用, :ZL2017 1 1215826.X, 2021.03.30  2. 胡薇、徐斌、刘秀凤、周霞、陈家旭、程训佳、陈军虎、周晓农、许学年、张颋、蔡玉春. 田鼠巴贝虫2D33、2D36抗原蛋白及其应用ZL2018 1 1175410.4, 2022.07.05  3. 胡薇、徐斌、刘秀凤、周霞、陈家旭、陈军虎、张颋、莫筱瑾、邓王平、党志胜、蔡玉春. 田鼠巴贝虫2D41抗原蛋白及其应用，ZL2018 1 0686127.1, 2022.07.05 | |

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| **Profile** | 蔡玉春 |
| **Name：Yuchun Cai**  **Gender： female**  **Date of birth：08/10/1983**  **Degree：PhD**  **Title：  Associate Professor**  **Email：caiyc@nipd.chinacdc.cn**  **Address：207 Ruijin Er Road,  Shanghai, China** |
| **Education** | |
| 2021/9-2024/7, Chinese Center for Disease Control and Prevention, Immunology, Ph.D.  2007/9 - 2010/7, Chinese Center for Disease Control and Prevention, Immunology, M.S.  2003/9 - 2007/7, Shandong University, Biotechnology, B.S. | |
| **Appointments** | |
| 2018/07- present, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention (Chinese Center for Tropical Diseases Research, Associate Professor  2014/07-2018/07, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention, Assistant Research Fellow  2010/07-2014/07, National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention, junior researcher | |
| **Academic Participation and Activities** | |
| 1. Editorial Board Member, Chinese Journal of Zoonoses;  2. Editorial Board Member, Bulletin of Disease Control and Prevention;  3. Young Editorial Board Member, Chinese Journal of Parasitology and Parasitic Diseases;  4. Health Science Popularization Lecturer, "Yiyuan Xinxing" (Rising Stars in Medical Field), Shanghai Municipal;  5. Member, Parasitic Diseases Group, Infectious Disease Physicians Branch, Chinese Medical Doctor Association (CMDA) | |
| **Research Interest** | |
| 1. Research on prevention and control of parasitic diseases, foodborne parasitic diseases, and detection and identification technologies of hemoprotozoal diseases;  2. Research on functional genomics of protozoa (such as Babesia) and their applications;  3. Research on the interaction between parasites and hosts and their pathogenic mechanisms;  4. Research on ticks and tick-borne parasitic diseases. | |
| **Projects** | |
| 1. the National Parasitic Resources Center, and the Min­istry of Science and Technology fund (NPRC-2019-194-30) (2020-2025), National Level, Member of the Secretariat;  2. The Shanghai Natural Science Foundation fund (21ZR1469900): Study on the role and mechanism of AMA1-RON2 complex in regulating the invasion of Babesia microti into host red blood cells, 2021-2024, Provincial and Municipal Level, Principal Investigator;  3. 2021 " The shanghai Innovation Action Plan for Science and Technology" Special Project for Science Popularization (21DZ2303700): Development and Application of Medical Science Popularization Education Courses and Courseware on "Food and Parasitic Diseases", 2021-2022, Provincial and Municipal Level, Principal Investigator. | |
| **Publications** | |
| 1. Yu chun Cai #, Chun li Yang#, Wei Hu , Peng Song, Bin Xu, Yan Lu, Lin Ai, Yan hong Chu, Mu xin Chen, Jia xu Chen\*, Shao hong Chen\*. Molecular Characterization and Immunological Evaluation of Truncated Babesia microti Rhoptry Neck Protein 2 (BmRON2) as a Vaccine Candidate. Frontiers in Immunology, Front Immunol. 2021 ,12:616343.(IF 8.787)  2.Yu chun Cai, Fen Wu, Wei Hu, Jiaxu Chen, Shao hong Chen, Bin Xu, Yan Lu, Lin Ai，Chun li Yang, Shimin Zhao\*. Molecular Characterization of Babesia microti Seroreactive Antigen 5-1-1 and Development of Rapid Detection Methods for Anti-B. microti Antibodies in Serum, Acta Tropica, 2018, 185: 371-379. (IF 2.629)  3.Yuchun Cai#, Bin Xu#, Xiufeng Liu, Wenwu Yang, Ziran Mo, Bin Zheng\*, Jiaxu Chen\*, Wei Hu\*. Transmission risk evaluation of transfusion blood containing low-density Babesia microti，Front Cell Infect Microbiol. 2024 Feb 5:14:1334426. doi: 10.3389/fcimb.2024.1334426. eCollection 2024. (IF 4.6)  4.Cai YC, Yang CL, Song P, Chen M, Chen JX. The protective effects of BMSA1 and BMSA5-1-1 proteins against Babesia microti infection. Parasites Hosts Dis. 2024 Feb;62(1):53-63. doi: 10.3347/PHD.23077. Epub 2024 Feb 23. PMID: 38443770; PMCID: PMC10915264. (IF 1.3)  5. CAI Yuchun, XU Bin, CHU Yanhong, YU Yingfang, SUN Jiahui, MO Ziran, YANG Hanyin, YAN Shuning, CHEN Muxin\*, CHEN Jiaxu\*. Proteomic Identification and Functional Analysis of Babesia microti Reveals Heparin-Binding Proteins. Journal of Tropical Medicine. 2025. 8821002. (IF 2.5) | |
| **Books** | |
| 1. Manual of Clinical Microbiology (11th Edition), Chinese Medical Electronic Audio & Video Press, 2017.06  2. 10,000 Questions and Answers in Clinical Laboratory Testing: Volume on Pathogen Testing, People's Medical Publishing House, 2017.09 | |
| **Patents** | |
| 1. Hu Wei, Yin Mingbo, Liu Xiao, Hong Qinghua, Wang Yuncheng, Zhang Ruixiang, Li Jian, Li Hongyan, Chen Muxin, Cai Yuchun, Xu Bin, Liu Xiufeng, Chen Jiaxu, Wang Jingwen. Specific primers for detecting Trypanosoma protozoa, and their detection methods and applications: ZL2017 1 1215826.X, 2021.03.30  2. Hu Wei, Xu Bin, Liu Xiufeng, Zhou Xia, Chen Jiaxu, Cheng Xunjia, Chen Junhu, Zhou Xiaonong, Xu Xuennian, Zhang Ting, Cai Yuchun. Babesia microti 2D33 and 2D36 antigenic proteins and their applications: ZL2018 1 1175410.4, 2022.07.05  3. Hu Wei, Xu Bin, Liu Xiufeng, Zhou Xia, Chen Jiaxu, Chen Junhu, Zhang Ting, Mo Xiaojin, Deng Wangping, Dang Zhisheng, Cai Yuchun. Babesia microti 2D41 antigenic protein and its application: ZL2018 1 0686127.1, 2022.07.05 | |