**国家自然科学奖提名公示内容**

**（2023年度）**

**1. 项目名称：**可转移多黏菌素耐药基因*mcr*的发现及其传播机制研究

**2. 提名者：**金梅林、张涌、谯仕彦

**3. 代表性论文（专著）目录：**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 序号 | 论文（专著）名称/刊名/作者 | 年卷页码 | 发表时间 | 通讯作者（含共同） | 第一作者（含共同） | 国内作者 | 论文署名单位是否包含国外单位 |
| 1 | Emergence of plasmid-mediated colistin resistance mechanism MCR-1 in animals and human beings in China: a microbiological and molecular biological study/Lancet Infectious Diseases/YiYun Liu, Yang Wang, Timothy R Walsh, LingXian Yi, Rong Zhang, James Spencer, Yohei Doi, Guobao Tian, Baolei Dong, Xianhui Huang, LinFeng Yu, Danxia Gu, Hongwei Ren, Xiaojie Chen, Luchao Lv, Dandan He, Hongwei Zhou, Zisen Liang, JianHua Liu, Jianzhong Shen | 2016,16 (2):161-168. | 2015年11月18日 | Jian-Hua Liu, Jianzhong Shen | Yi-Yun Liu, Yang Wang | 刘艺云，汪洋，易灵娴，张嵘，田国宝，董保磊，黄显会，俞林峰，顾丹霞，任洪伟，陈孝杰，吕鲁超，贺丹丹，周宏伟，梁梓森，刘健华，沈建忠 | 是 |
| 2 | Prevalence, risk factors, outcomes, and molecular epidemiology of *mcr-1*-positive Enterobacteriaceae in patients and healthy adults from China: an epidemiological and clinical study/Lancet Infectious Diseases/Yang Wang, GuoBao Tian, Rong Zhang, Yingbo Shen, Jonathan M Tyrrell, Xi Huang, Hongwei Zhou, Lei Lei, HongYu Li, Yohei Doi, Ying Fang, Hongwei Ren, Lan-Lan Zhong, Zhangqi Shen, KunJiao Zeng, Shaolin Wang, Jian-Hua Liu, Congming Wu, Timothy R Walsh, Jianzhong Shen | 2017, 17(4):390-399 | 2017年1月27日 | Timothy R Walsh, Jianzhong Shen | Yang Wang, Guo-Bao Tian, Rong Zhang, Yingbo Shen, | 汪洋，田国宝，张嵘，沈应博，黄曦，周宏伟，雷蕾，李洪玉，方颍，任宏伟，钟兰兰，沈张奇，曾坤娇，王少林，刘健华，吴聪明，沈建忠 | 是 |
| 3 | Comprehensive resistome analysis reveals the prevalence of NDM and MCR-1 in Chinese poultry production/Nature Microbiology/Yang Wang, Rongmin Zhang, Jiyun Li, ZuoweiWu, Wenjuan Yin, Stefan Schwarz, Jonathan M. Tyrrell, Yongjun Zheng, Shaolin Wang, Zhangqi Shen, Zhihai Liu, Jianye Liu, Lei Lei, Mei Li, Qidi Zhang, Congming Wu, Qijing Zhang, YongningWu, Timothy R. Walsh, Jianzhong Shen | 2017, 2:16260 | 2017年2月6日 | Timothy R Walsh, Jianzhong Shen | Yang Wang, Rongmin Zhang | 汪洋，张荣民，李基云，尹文娟，郑永军，王少林，沈张奇，刘志海，刘建业，雷蕾，张启迪，吴聪明，吴永宁，沈建忠 | 是 |
| 4 | Novel Plasmid-Mediated Colistin Resistance Gene *mcr-3* in *Escherichia coli*/mBio/ Wenjuan Yin, Hui Li, Yingbo Shen, Zhihai Liu, Shaolin Wang, Zhangqi Shen, Rong Zhang, Timothy R. Walsh, Jianzhong Shen, Yang Wang | 2017, 8 (3), e00543-17 | 2017年6月27日 | Yang Wang | Wenjuan Yin | 尹文娟，李会，沈应博，刘志海，王少林，沈张奇，张嵘，沈建忠，汪洋 | 是 |
| 5 | Anthropogenic and environmental factors associated with high incidence of *mcr-1* carriage in humans across China/Nature Microbiology/ Yingbo Shen, Hongwei Zhou, Jiao Xu, Yongqiang Wang, Qijing Zhang, Timothy R. Walsh, Bing Shao, Congming Wu, Yanyan Hu, Lu Yang, Zhangqi Shen, Zuowei Wu, Qiaoling Sun, Yanran Ou, Yueling Wang, Shaolin Wang, Yongning Wu, Chang Cai, Juan Li, Jianzhong Shen, Rong Zhang, Yang Wang | 2018, 3(9):1054-1062. | 2018年7月23日 | Jianzhong Shen, Rong Zhang, Yang Wang | Yingbo Shen, Hongwei Zhou | 沈应博，周宏伟，徐娇，王永强，邵兵，吴聪明，胡燕燕，杨璐，沈张奇，孙巧玲，欧嫣然，王月玲，王少林，吴永宁，蔡畅，李娟，沈建忠，张嵘，汪洋 | 是 |

**4. 主要完成人（完成单位）：**沈建忠（中国农业大学）；刘健华（华南农业大学）；汪洋（中国农业大学）；张嵘（浙江大学）；沈张奇（中国农业大学）。