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Multidrug-resistant Shigella sonnei carrying plasmid-mediated mcr-1 gene in China

Qiuxia Ma, Yong Huang, Jian Wang, Xuebin Xu, Jane Hawkey, Chaojie Yang, Beibei Liang, Xiaofeng Hu, Fuli Wu, Xiaoxia Yang, Jinyan Wang, Rongrui Li, Peng Li, Jing Xie, Leili Jia, Ligui Wang, Rongzhang Hao, Yigang Tong, Kathryn E Holt, Shaofu Qiu, Yansong Sun, Hongbin Song

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#### ACCEPTED MANUSCRIPT

### **Highlights:**

- 1. The first report of the active *mcr-1* in MDR *S. sonnei* in China.
- 2. Expanded the list of *Enterobacteriaceae* spreading *mcr-1*.
- 3. Described the diverse mobile genetic elements on *mcr-1*-harboring plasmids of MDR *S. sonnei*.
- 4. Emphasized the importance of continuous surveillance of *mcr-1*-positive *Shigella*.
- 5. Underscored the need to modulate and control clinical use of polymyxin treatment.



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