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研究领域	微生物农药制剂开发；生防细菌培养、工艺优化与放大；活菌检测方法开发等	
教科研成果	<p>发表论文：</p> <p>[1] Jiacai Guo, Jie Ling, Kaikai Zhang, et al. A novel ultrasonic crushing method for accurate detection of viable spore counts in <i>Paenibacillus polymyxa</i>-based microbial pesticides is superior to the conventional method of Shaker shaking[J]. <i>Biocontrol Science and Technology</i>, 2023, 3(33): 268-282.</p> <p>[2] Jiacai Guo, Fei Fan, Weiliang Wang, et al. Development of PMA-qPCR assay to accurately and reproducibly quantify viable bacteria of <i>Paenibacillus polymyxa</i>[J]. <i>Letters in Applied Microbiology</i>, 2023: 1-7.</p> <p>[3] Jiacai Guo, Weiliang Wang, Haoyu Zhao, et al. A new PMA-qPCR method for rapid and accurate detection of viable bacteria and spores of marine-derived <i>Bacillus velezensis</i> B-9987[J]. <i>Journal of Microbiological Methods</i>, 2022, 199: 106537.</p> <p>[4] Minxi Wan, Haoyu Zhao, Jiacai Guo, et al. Comparison of C-phycoerythrin from extremophilic <i>Galdieria sulphuraria</i> and <i>Spirulina platensis</i> on stability and antioxidant capacity. <i>Algal Research</i>, 2021, 58: 102391.</p> <p>[5] Jiacai Guo, Bing Hu, Lei Guo. Isolation and identification of antioxidative active component from total flavonoids of <i>Mimenghua</i>[J]. <i>Agricultural Science & Technology</i>, 2017, 18(4): 719-723.</p> <p>[6] Lei Guo (导师), Jiacai Guo, Fuquan Xu. Optimized extraction process and identification of antibacterial substances from <i>Rhubarb</i> against aquatic pathogenic <i>Vibrio harveyi</i>[J]. <i>3 Biotech</i>, 2017, 7(6): 377.</p> <p>[7] Lei Guo (导师), Jiacai Guo, Wencheng Zhu, et al. Optimized synchronous extraction process of tea polyphenols and polysaccharides from <i>Huaguoshan Yunwu tea</i> and their antioxidant activities[J]. <i>Food and Bioproducts Processing</i>,</p>	

2016, 100: 303-310.