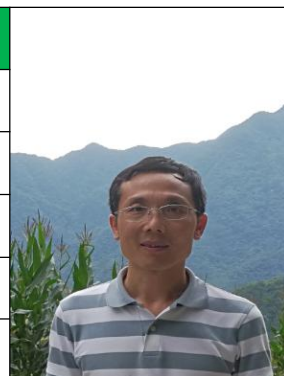


# CURRICULUM VITAE

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Research Interest			
<p>My research focus on environmental microbiology:</p> <ol style="list-style-type: none"><li>1. Molecular mechanisms of heavy metals &amp; metalloids transformation, in particularly, on selenium transformation in microorganisms &amp; plants.</li><li>2. Bioremediation of heavy metals &amp; metalloids.</li><li>3. Interactions between microorganisms &amp; plants.</li></ol>			
Professional Memberships			
Other Roles			
Education & Working Experience			
<p>Education:</p> <p>2013 - 2014: University of Copenhagen, Denmark, Postdoc in Microbiology.</p> <p>1999 - 2007: Huazhong Agricultural University (HZAU), PhD in Microbiology.</p>			



1992 - 1995: Central China Normal University, Master in Botany.

1988 - 1992: Shaanxi Normal University, Bachelor in Biology.

### Professional Experiences:

2019 - present: Professor, State Key Laboratory of Agricultural Microbiology, College of Life Science and Technology, HZAU, China

2004 - 2019: Associate professor, State Key Laboratory of Agricultural Microbiology, College of Life Science and Technology, HZAU, China

1997 - 2004: Lecturer, College of Life Science and Technology, HZAU, China

1995 - 1997: Teaching Assistant, College of Life Science and Technology, HZAU, China.

### Publications

1. Dan Wang, Xian Xia, Shijuan Wu, Shixue Zheng\*, Gejiao Wang\*. The essentialness of glutathione reductase GorA for biosynthesis of Se(0)-nanoparticles and GSH for CdSe quantum dot formation in *Pseudomonas stutzeri* TS44. *Journal of Hazardous Materials* (2019) 366: 301-310. <https://doi.org/10.1016/j.jhazmat.2018.11.092>
2. Shijuan Wu, Tengfei Li, Xian Xia, Zijie Zhou, Shixue Zheng\*, Gejiao Wang\*. Reduction of tellurite in *Shinella* sp. WSJ-2 and adsorption removal of multiple dyes and metals by biogenic tellurium nanorods. *International Biodeterioration & Biodegradation* (2019) 144: 104751.
3. Dahui Zhu, Yaxin Niu, Dongmei Liu, Gejiao Wang, Shixue Zheng\*. *Sphingomonas gilva* sp. nov., isolated from mountain soil. *Int J Syst Evol Microbiol.* (2019) 69(11): 3472-3477. doi: 10.1099/ijsem.0.003645
4. Yuanqing Tan, Yuantao Wang, Yu Wang, Ding Xu, Yeting Huang, Dan Wang, Gejiao Wang, Christopher Rensing, Shixue Zheng\*. Novel mechanisms of selenate and selenite reduction in the obligate aerobic bacterium *Comamonas testosteroni* S44. *Journal of Hazardous Materials* (2018) 359: 129-138.

5. Ding Xu, Lichen Yang, Yu Wang, Gejiao Wang, Christopher Rensing, Shixue Zheng\*. Proteins enriched in charged amino acids control the formation and stabilization of selenium nanoparticles in *Comamonas testosteroni* S44. *Scientific Reports* (2018) 8: 4766. DOI:10.1038/s41598-018-23295-5.
6. X. Xia, S. Wu, N. Li, D. Wang, S. Zheng, G. Wang\*. Novel bacterial selenite reductase CsrF responsible for Se(IV) and Cr(VI) reduction that produces nanoparticles in *Alishewanella* sp. WH16-1. *J. Hazard Mater* (2018) 342: 499-509. DOI: <http://dx.doi.org/10.1016/j.jhazmat.2017.08.051>
7. Y. Wang, D. Xu, A. Luo, G. Wang, S. Zheng\*. *Nocardioides litorisoli* sp. nov., isolated from lakeside soil. *Int J Syst Evol Microbiol* (2017) 67: 4216-4220.
8. Zhiyong Wang, Yuanqing Tan, Ding Xu, Gejiao Wang, Jihong Yuan, Shixue Zheng\*. *Pedobacter vanadiisoli* sp. nov., isolated from soil of a vanadium mine. *Int J Syst Evol Microbiol* (2016) 66: 5112-5117. doi: 10.1099/ijsem.0.001480 (2016).
9. Yuanqing Tan, Yuantao Wang, Dan Wang, Gejiao Wang, Shixue Zheng\*. *Sphingoaurantiacus capsulatus* sp. nov., isolated from mountain soil, and emended description of the genus *Sphingoaurantiacus*. *Int J Syst Evol Microbiol* (2016) 66: 4930-4935. doi: 10.1099/ijsem.0.001447 (2016).
10. Yuanqing Tan, Rong Yao, Rui Wang, Dan Wang, Gejiao Wang, Shixue Zheng\*. Reduction of selenite to Se(0) nanoparticles by filamentous bacterium *Streptomyces* sp. ES2-5 isolated from a selenium mining soil. *Microbial Cell Factories* (2016) 15: 157. DOI 10.1186/s12934-016-0554-z
11. Ding Xu, Libing Wang, Gejiao Wang, Shixue Zheng\*. *Domibacillus antri* sp. nov., isolated from the soil of a cave. *Int J Syst Evol Microbiol* (2016) 66: 2502-2508. doi: 10.1099/ijsem.0.001080.
12. Haichuan Cao, Ruirui Chen, Libing Wang, Lanlan Jiang, Fen Yang, Shixue Zheng\*, Gejiao Wang, Xiangui Lin. Soil pH, total phosphorus, climate and distance are the major factors influencing microbial activity at a regional spatial scale. *Sci. Rep.* (2016) 6: 25815. doi:

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13. Shixue Zheng, Haichuan Cao, Qiaoyun Huang, Ming Liu, Xiangui Lin, Zhongpei Li\*. Long-term fertilization of P coupled with N greatly improved microbial activities in a paddy soil ecosystem derived from infertile land. *European Journal of Soil Biology* (2016) 72: 14-20. DOI: 10.1016/j.ejsobi.2015.12.006
14. Leilei Zhang, Shuijiao Liao, Yuanqing Tan, Gejiao Wang, Dan Wang, Shixue Zheng\*. *Chitinophaga barathri* sp. nov., isolated from mountain soil. *Int J Syst Evol Microbiol* (2015) 65: 4233-4238. DOI 10.1099/ijsem.0.000566.
15. Guiqin Song, Ruirui Chenb, Wanwan Xiang, Fen Yang, Shixue Zheng\*, Jibin Zhang, Jiabao Zhang, Xiangui Lin\*. Contrasting effects of long-term fertilization on the community of saprotrophic fungi and arbuscular mycorrhizal fungi in a sandy loam soil. *Plant Soil Environ.* (2015) 61(3): 127-136
16. S. Zheng, J. Su, L. Wang, R. Yao, D. Wang, Y. Deng, R. Wang, G. Wang\*, C. Rensing\*. Selenite reduction by the obligate aerobic bacterium *Comamonas testosteroni* S44 isolated from a metal-contaminated soil. *BMC Microbiology* (2014) 14: 204-216. doi: 10.1186/s12866-014-0204-8.
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18. Shixue Zheng, Junli Hu, Xuefei Jiang, Fengqin Ji, Jiabao Zhang, Ziniu Yu\*, Xiangui Lin\*. Long-term fertilization regimes influence FAME profiles of microbial communities in an arable sandy loam soil in Northern China. *Pedobiologia - Int. J. Soil Biol.* (2013) 56: 179-183.
19. S. Zheng, J. Hu, K. Chen, J. Yao, Z. Yu\*, X. Lin\*. Soil microbial activity measured by microcalorimetry in response to long-term fertilization regimes and available phosphorous on heat evolution. *Soil Biology & Biochemistry* (2009) 41: 2094-2099.