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Research Interests

- **Impact of agriculture on soil microbial communities**
- **The physiology, systematics and ecology of soil microbial resources**
- **Bacterial degradation of man-made environmental pollutants**
- **Design and applicaton of Synthetic Microbial Community for bioremediation**

Publication

Insight into the characteristics and new mechanism of nicosulfuron biodegradation by a Pseudomonas sp. LAM1902, Journal of Agricultural and Food Chemistry, 2020, DOI: 10.1021/acs.jafc. 9b06897

Nicosulfuron Biodegradation by a Novel Cold-Adapted Strain Oceanisphaera psychrotolerans LAM-WHM-ZC, Journal of Agricultural and Food Chemistry, 2017, DOI: 10.1021/acs.jafc.7b04022

Kurthia huakuii sp nov., isolated from biogas slurry, and emended description of the genus Kurthia, International journal of systematic and evolutionary microbiology, 2014, DOI: 10.1099/ijs.0. 056044-0

Isolation and characterization of a novel cinosulfuron degrading K urthia sp. from a

methanogenic microbial consortium, Bioresource technology, 2013, DOI: 10.1016/j.biortech.2013.08. 017

Production of a lignocellulolytic enzyme system for simultaneous bio-delignification and saccharification of corn stover employing co-culture of fungi, Bioresource technology, 2015, DOI: 10.1016/j.biortech.2014.10.161

Open fermentative production of fuel ethanol from food waste by an acid-tolerant mutant strain of Zymomonas mobili, Bioresource technology, 2016, DOI: 10.1016/j.biortech.2015.12.054

Characterization of a Highly Thermostable and Organic Solvent-Tolerant Copper-Containing Polyphenol Oxidase with Dye-Decolorizing Ability from Kurthia huakuii LAM0618T, PLoS One, 2016, DOI: 10.1371/journal.pone.0164810

Characterization of AiiK, an AHL lactonase, from Kurthia huakui LAM0618T and its application in quorum quenching on Pseudomonas aeruginosa PAO1, Scientific reports, 2018, DOI: 10.1038/ s41598-018-24507-8

Pseudomonas nicosulfuronedens s p. nov., a nicosulfuron degrading bacterium, isolated from a microbial consortium, International journal of systematic and evolutionary microbiology, 2021, DOI: 10. 1099/ijsem.0.004632

Arthrobacter sulfonylureivorans sp. nov., isolated from a sulfonylurea herbicides degrading consortium enriched with birch forest soil, Archives of microbiology, 2020, DOI: 10.1007/s00203-020- 02097-2