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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 application 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 huakuui* 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 nicosulfuron degrading *Kurthia* 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 mobilis***, 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 huakuii* 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