



研究队伍

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副研究员

专家人才库

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简历:

毕业于山东大学生物系微生物专业, 获理学学士和硕士。1994年在日本大阪大学生物技术系参加了UNESCO Post-Graduate Course in Microbiology。2002年毕业于日本大阪大学工学部生物技术系, 获工学博士。2002年在山东大学微生物技术国家重点实验室从事纤维素酶的酶学研究。2006年到中科院生态环境研究中心工作, 目前主要从事资源和环境微生物的研究。研究方向为:

1. 环境微生物学: 环境污染物的生物传感器监测及其毒理学效应。
2. 微生物生态学: 叶际和根际的微生物生态学及其在环境污染物和农药残留降解中的应用。
3. 资源和环境领域关键酶的酶学研究: 利用微生物生态学的方法开展纤维素降解菌的调查和其酶学性质的研究。目前承担和参与了国家基金委、国家支撑计划、863重大攻关课题和中科院院重大项目等十几项课题。

近五年来课题组在SCI、EI和国内核心期刊上发表文章二十几篇, 申请专利十几项。招生专业: 环境科学

研究方向:

1. Microbial Ecology- functional microbes
2. Biological Monitoring of Environmental Pollution
3. Quorum-sensing of ammonia oxidation bacteria

专家类别:

研究员

职务:

室副主任

社会任职:

承担科研项目情况:

Biomonitoring and Assessment for Pollutants (the project supported by National HighTechnology Research and Development Program of China and the National Science Foundation of China)

Function of Cellulolytic Microbes in Carbon Cycle (The project supported by Funds from Chinese Academy of Sciences and the National Science Foundation of China)

Relationship between quorum-sensing and ammonia oxidation (The National Science Foundation of China)

获奖及荣誉:

Committee member of Ecological Society of China

Committee member of the division of Microbial Ecology in Ecological Society of China

Excellent Paper Award of Japanese Society for Biotechnology in 2002

代表论著:

More than 50 papers in journals and books, 20 patent applications

1. Zhilan Chen, Meiling Lu, Guoqiang Zhuang, and Hailin Wang (2011): Enhanced Bacterial Biosensor for Fast and Sensitive Detection of Oxidatively DNA Damaging Agents. Analytical Chemistry 83: 3248 - 3251.

2. Xuliang Zhuang, Zhen Han, Zhihui Bai, Guoqiang Zhuang, Hojae Shim (2010) : Progress in decontamination by halophilic microorganisms in saline wastewater and soil. *Environmental Pollution* 158: 1119 - 1126.
3. Jiying Ning, Zhihui Bai, Gang Gang, Dan Jiang, Qing Hu, Jizheng He, Hongxun Zhang and Guoqiang Zhuang (2010) : Functional assembly of bacterial communities with activity for the biodegradation of an organophosphorus pesticide in the rape phyllosphere. *FEMS Microbiology Letters*. 306 : 135 - 143.
4. Zhang, Baoguo, Zhihui Bai, Daniel Hoefel, Ling Tang, Zhiguang Yang, Guoqiang Zhuang (2008) : Assessing the impact of the biological control agent *Bacillus thuringiensis* on the indigenous microbial community within the pepper plant phyllosphere. *FEMS Microbiology Letters* 284: 102-108 .
5. Anzhou Ma, Qing Hu, Yinbo Qu, Zhihui Bai, Weifeng Liu, Guoqiang Zhuang (2008): The enzymatic hydrolysis rate of cellulose decreases with irreversible adsorption of cellobiohydrolase I. *Enzyme and Microbial Technology*. 42 (7): 543-547.
6. Yu Shen, Yan Zhang, Tao Ma, Xiaoming Bao, Fengguang Du, Guoqiang Zhuang, Yinbo Qu (2008): Simultaneous saccharification and fermentation of acid-pretreated corncobs with a recombinant *Saccharomyces cerevisiae* expressing beta-glucosidase. *Bioresource Technology*. 99(11): 5099-5103.