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发布时间:2014-07-21 17:07:57 作者:

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职务:

学科带头人

职称级别:

正高

学术任职:

中国微生物生态学专业委员会委员, 美国微生物学会中国区域联络人(ASM China Liaison)

最高学历:

博士

所属科室:

环境卫生学系

研究方向:

(1) 微生物组方法学 (2) 人体微生物组 (3) 环境微生物组

科研项目:

执行中课题 (课题负责人):

- (1) 国家自然科学基金优秀青年科学基金“微生物组研究方法学”(31322003), 100万元, 起止年份2014-2016;
- (2) 国家自然科学基金面上项目“基于BIPES的微生物群落分析新方法研究”(31270152), 82万元, 起止年份2013-2016;
- (3) 教育部“新世纪优秀人才”(NCET-11-0921), 50万元, 2011年11月获得;
- (4) 国际海域资源调查与开发“十二五”重大课题子课题“深海资源微生物多样性分析及数据库建设”(DY125-15-R-01), 80万元, 起止年份2012-2015;
- (5) 南方医科大学国家杰出青年科学基金培育计划, 30万元, 起止年份2011-2013;
- (6) 广东省教育厅科研处科技创新项目“微生物群落结构分析新方法的实验偏差研究”(2012KJCX0031), 14万元, 执行年份2013-2014;

成果奖励:

2013年获得国家自然科学基金优秀青年科学基金资助

2012年入选广东省“千百十”省级人才

2011年入选教育部新世纪优秀人才

2011年广东省优秀硕士论文（陆素颖）指导老师

2007年第二届“南方之星杯”教学竞赛一等奖

代表论文:

- (21) Wang Y, Sheng HF, He Y, Wu JY, Jiang YX, Tam NFY, and Zhou HW* (周宏伟, 通讯作者) (2012) Comparison of the levels of bacterial diversity in freshwater, intertidal wetland, and marine sediments by using millions of Illumina tags. *Applied and Environmental Microbiology*. 78:8264-8271 (IF 3.829)
- (20) Jiang XT, Zhang H, Sheng HF, Wang Y, He Y, Zou F, and Zhou HW* (周宏伟, 通讯作者) (2012) Two-Stage Clustering (TSC): A pipeline for selecting operational taxonomic units for the high-throughput sequencing of PCR amplicons. *PLoS ONE* 7(1): e30230 (IF 4.35)
- (19) Zhou HW* (周宏伟, 通讯作者), Li DF, Tam NF, Jiang XT, Zhang H, Sheng HF, Liu X, Qin J, and Zou F (2011) BIPES, a Cost-Effective High-Throughput Method for Assessing Microbial Diversity. *The ISME Journal*. 5:741-749 (IF 8.951)
- (18) Jiang YX, Wu JG, Ai CX, Zou F, Zhou HW* (周宏伟, 通讯作者) (2011) Integrated lysis protocol can reduced the DNA extraction bias on mangrove soil. *Journal of Bioscience and Bioengineering* 111: 153-157 (IF1.749)
- (17) Lu SY, Zhang YL, Gen SN, Li TY, Ye ZM, Zhang DS, Zou F and Zhou HW* (周宏伟, 通讯作者) (2010) High Diversity of Extended-spectrum Beta-lactamase-producing Bacteria in an Urban River Sediment Habitat. *Applied and Environmental Microbiology* 76: 5972-5976. (IF 3.73)
- (16) Wu JY, Jiang XT, Jiang YX, Lu SY, Zou F, Zhou HW* (周宏伟, 通讯作者) (2010) Effects of polymerase, template dilution and cycle number on PCR based 16S rRNA diversity analysis using the deep sequencing method. *BMC Microbiology* 10:255. (IF2.98)
- (15) Lv ZR, Shi L, Wang J, Park D, Bhak J, Yang JM, Park YD, Zhou HW* (周宏伟, 共同通讯作者) and Zou F* (2010) The effect of trifluoroethanol on tyrosinase activity and conformation: inhibition kinetics and computational simulations. *Applied Biochemistry Biotechnology* 160:1896-908 (IF 1.42)
- (14) Wu JG, Jiang YX, Zha LY, Ye ZM, Zhou ZF, Ye JF, Zhou HW* (周宏伟, 通讯作者) (2010) Tetracycline degradation by ozonation, and evaluation of biodegradability and toxicity of ozonation byproducts. *Journal of Environmental Engineering and Science* 37:1485-1491 (IF 0.402)
- (13) 陆素颖, 李天宇, 周宏伟* (通讯作者) (2010) 头孢噻肟处理的城市河流沉积物微生物群落结构及blaCTX-M多样性的研究. *南方医科大学学报* 30: 463-467.
- (12) Tao R, Ying GG, Su HC, Zhou HW(周宏伟) and Sidhuc JPS (2010) Detection of antibiotic resistance and tetracycline resistance genes in Enterobacteriaceae isolated from the Pearl rivers in South China. *Environmental Pollution* 158: 2101-2109
- (11) Zhou HW(周宏伟), Wong HY, Yu MK, Park YD, Wong YS and Tam NF (2009) Polycyclic Aromatic Hydrocarbon-Induced Structural Shift of Bacterial Communities in Mangrove Sediment. *Microbial Ecology* 58: 153-160
- (10) Li CH, Zhou HW(周宏伟), Wong YS and Tam NF (2009) Vertical distribution and anaerobic biodegradation of polycyclic aromatic hydrocarbons in mangrove sediments in Hong Kong, South China. *Science of the Total Environment* 407, 5772-5779
- (9) Zhou HW(周宏伟), Luan TG, Zou F, Tam NF. (2008) Different bacterial groups for biodegradation of three- and four-ring PAHs isolated from a Hong Kong mangrove sediment. *Journal of Hazardous Materials* 152, 1179-1185
- (8) Zhou HW(周宏伟), Guo CL, Wong YS and Tam NFY (2006) Genetic diversity of dioxygenase genes in PAH-degrading bacteria isolated from mangrove sediments. *FEMS Microbiology Letters*, 262, 148-157.
- (7) Zhong, Y, Luan, TG, Zhou, HW(周宏伟), Lan, CY and Tam, NFY (2006) Pyrene intermediates production in single and binary PAH culture by a PAH-degrading Mycobacterium sp. isolated from mangrove sediment. *Environmental Toxicology and Chemistry*, 25, 2853-2859
- (6) Luan TG, Yu KSH, Zhong Y, Zhou HW(周宏伟), Lan CY and Tam NFY (2006) Study of metabolites from the degradation of polycyclic aromatic hydrocarbons (PAHs) by bacterial consortium enriched from mangrove sediments. *Chemosphere*, 65, 2289-2296
- (5) 张亚莉, 周宏伟, 马骊等, (2006) 医患鼻前庭携带耐甲氧西林金黄色葡萄球菌与医院感染菌同源性的研究. *南方医科大学学报*, 26, 635-637
- (4) Guo CL, Zhou HW(周宏伟), Wong YS and Tam NFY (2005) Isolation of PAH-degrading bacteria from mangrove sediments and their biodegradation potential. *Marine Pollution Bulletin*, 51, 1054-1061.
- (3) Zhou HW(周宏伟), Park YD, and Zhou HM (2002) Lead ion effect on creatine kinase: equilibrium and kinetic studies of inactivation and conformational changes. *International Journal of Biochemistry and Cell Biology* 34(5):564-71.
- (2) Zhou HW(周宏伟), Xu Y, and Zhou HM (2002) Activity and conformational changes of horseradish peroxidase in trifluoroethanol *Biochemistry and Cell Biology*. 80:205-13.
- (1) Meng FG, Zhou HW(周宏伟), and Zhou HM (2001) Effects of acrylamide on creatine kinase from rabbit muscle. *International Journal of Biochemistry and Cell Biology*, 33, 1064-1070