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James Shapleigh副教授学术报告的通知

报告题目：**Three short stories about denitrifiers in soils told using metagenomics**

报告时间：12月12日（周一）上午9:30

报告人：Dr. James Shapleigh

报告地点：农生环组团B座110

报告人简介：

Dr. James Shapleigh在Clemson University微生物系获得学士学位，University of Georgia微生物系获得博士学位。主要从事微生物反硝化过程，即氮氧化物呼吸过程研究，尤其在环境改变或胁迫下反硝化微生物生理生态应对策略方面的研究颇具特色。截止目前，已在PNAS, J. Bacteriology, Environ. Micorbiol.等期刊发表论文60余篇。

个人主页：http://micro.cornell.edu/people/james-shapleigh

报告内容摘要：

In this talk I will describe how we are using metagenomic and metatranscriptomic approaches to gain insight into the denitrification community in two sites in the Northeastern United States. One, Cornell Farms, has neutral pH soils and is adjacent to actively farmed fields. The second is the Hubbard Brook Experimental Forest. This site has low pH soils and has never been used for agriculture. I will also present data from a third study in which soils were experimentally manipulated to test the effect of oxygen legacy on the denitrification community. We have found that metagenomics can provide unique insights into the denitrifiers in disparate soil types and the results of these studies have provided evidence for some unexpected correlations between the environment and the type and frequency of occurrence of denitrification genes.

浙江大学环境生态工程研究所

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