

Community Genome Arrays for Detection of Microorganisms in Natural Environments

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Technology Summary

A community genome array utilizing glass slide-based microarray ("chip") technology having pure whole genomic DNA isolated from different phylogenetic groups of bacteria immobilized thereon for the detection of microorganisms in natural environments. This ecological application of genomic technology is a sensitive, rapid, cost-effective, and potentially quantitative approach to detecting microorganisms in natural environments by characterizing the microbial genome composition of a sample. Community genome arrays are valuable as a useful, microarray-based tool for assessing microbial community composition in the absence of any genome sequence information.

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