



[100K Pathogen Genome Project Selects Pacific Biosciences SMRT\(R\) Technology to Generate High-Quality](#)

*** Pacific Biosciences of California, Inc. (Nasdaq:PACB) reported a partnership for the 100K Pathogen Genome Project. As part of the project, PACB's Single Molecule, Real-Time (SMRT(R)) technology will be used to sequence the genomes from at least 1,000 foodborne pathogen sa*

Online PR News â€œ 08-January-2013â€œ PACB, Pacific Biosciences of California, Inc.

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PACB reported a partnership for the 100K Pathogen Genome Project. As part of the project, PACB's Single Molecule, Real-Time (SMRT(R)) technology will be used to sequence the genomes from at least 1,000 foodborne pathogen samples to completion, and to elucidate their epigenomes. These bacteria represent major illness-causing pathogens, including Salmonella, Campylobacter, E. coli, Vibrio, and Listeria. The 100K Genome Project was founded by the FDA, Agilent Technologies, and the laboratory of Dr. Bart Weimer at UC Davis to create a consortium of partners from around the world that will sequence 100,000 foodborne pathogens using next-generation sequencing. This initiative addresses a significant shortage of bacterial pathogen information for use in designing molecular diagnostics, creates a resource to expand our understanding of infection mechanisms, and constructs a public repository for new insights into bacterial evolution by using large-scale genomics. PACB's SMRT sequencing technology generates sequence reads an order of magnitude longer than other leading DNA sequencing technologies, thereby facilitating efficient de novo microbial genome assemblies. Long reads are critical for resolving genetic complexity in the assembly and finishing of genomes. The use of SMRT sequencing for the automated finishing of microbial genomes has been demonstrated in multiple recent publications, including for the genetic analysis of the Haitian cholera and German E. coli outbreaks. PACB offers the PacBio(R)RS High Resolution Genetic Analyzer to help scientists solve genetically complex problems. More about PACB at www.pacificbiosciences.com

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