



High-Speed DNA Sequencing Enabled by a High Sensitivity Nanopore

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The Wisconsin Alumni Research Foundation is seeking commercial partners interested in developing a novel nanopore sequencing technology capable of high-speed DNA sequencing. The optically active nanopore can be readily fabricated with integrated circuit techniques, and high sensitivity detection improves sequencing speed compared to other nanopore technologies.

The Invention

UW-Madison researchers and others have developed a high-speed sequencing method using a novel nanopore technology. As nucleotides pass through the nanopore, changes in the emitted light frequency enable the determination of the sequence of biomolecules such as DNA. This technology maximizes the detection sensitivity for improved sequencing speed compared to other nanopore methods. The solid-state nanopore can be fabricated using current integrated circuit techniques and is more stable than prior lipid bilayer-based implementations.

Tech Fields

- [Analytical Instrumentation, Methods & Materials : Optics](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854

