

DNA and RNA Sequencing by Nanoscale Reading Through Programmable Electrophoresis and Nanoelectrode-Gated Tunneling and Dielectric Detection

Disclosure Number

200100943

Technology Summary

DNA and RNA Sequencing by Nanoscale Reading: A method for performing nucleic acid (DNA and/or RNA) sequencing on a single molecular at nanometer scale. The nanotechnology obtains the genetic sequence information by reading through a DNA (or RNA) molecule base by base at a nanometer scale as if one were looking through a strip of movie film. The method of the invention has bne potential to perform DNA sequencing at an ultrafast speed.

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