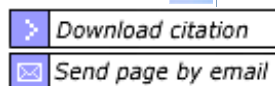


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### Sequence information can be obtained from single DNA molecules.

Braslavsky I, Hebert B, Kartalov E, Quake SR

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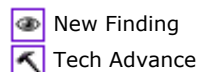
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### Faculty Member

#### Deirdre Meldrum

University of Washington,  
United States  
GENOMICS & GENETICS

### Comments

**The authors present exciting results that demonstrate the use of DNA polymerase to obtain sequence information from single DNA molecules by using fluorescence microscopy.** The discrimination and fidelity of DNA polymerase was used to image sequence information in a single DNA template as its complementary strand is synthesized to determine sequence fingerprints up to 5 bp in length. This promising approach for single molecule sequencing avoids problems with previous attempts such as background fluorescence and fluorescent impurities by using evanescent wave microscopy and single-pair fluorescence resonance energy transfer to reject unwanted noise. With automation and scale-up, the approach presented has the potential to simultaneously sequence 12 million templates in a 25-mm square using only a few microliters of reagents and to make direct measurements of gene expression from single cells.

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