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**Ju et al.**

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(54) **MASSIVE PARALLEL METHOD FOR  
DECODING DNA AND RNA**

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(58) **Field of Classification Search**

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(57) **ABSTRACT**

This invention provides methods for attaching a nucleic acid  
to a solid surface and for sequencing nucleic acid by  
detecting the identity of each nucleotide analog after the  
nucleotide analog is incorporated into a growing strand of  
DNA in a polymerase reaction. The invention also provides  
nucleotide analogs which comprise unique labels attached to  
the nucleotide analog through a cleavable linker, and a  
cleavable chemical group to cap the —OH group at the  
3'-position of the deoxyribose.

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