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Next-Generation Digital Information Storage in DNA

George M. Church^{1,2}, Yuan Gao³, Sriram Kosuri^{1,2,*}

+ [See all authors and affiliations](#)

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Abstract

Digital information is accumulating at an astounding rate, straining our ability to store and archive it. DNA is among the most dense and stable information media known. The development of new technologies in both DNA synthesis and sequencing make DNA an increasingly feasible digital storage medium. Here, we develop a strategy to encode arbitrary digital information in DNA, write a 5.27-megabit book using DNA microchips, and read the book using next-generation DNA sequencing.

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