First described by David Hilbert in 1891, the Hilbert curve is a one-dimensional fractal trajectory that densely fills higher-dimensional space without crossing itself. A new method for reconstructing the three-dimensional architecture of the human genome, described on page 289, reveals a polymer analog of Hilbert’s curve at the megabase scale.

*Image: Leonid A. Mirny and Erez Lieberman-Aiden*
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DNA from historical specimens reveals the mutation causing the hemophilia that afflicted the royal families of Europe.
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V. C. Lombardi et al.
Two-thirds of a sample of 101 U.S. patients with chronic fatigue syndrome harbor an infectious retrovirus in their blood cells.
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A. K. Tripathi et al.
Changes in global sea level and atmospheric carbon dioxide levels were similar during the past 20 million years.
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M. R. Walsh et al.
An extended simulation uncovers the intricate steps whereby methane can be trapped in ice.
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C. A. Crain and S. J. Martin
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DOCK9 uses a unique mechanism to discriminate between GDP- and GTP-bound forms of Cdc42.

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