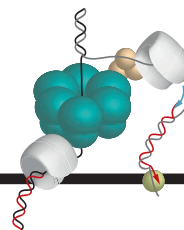


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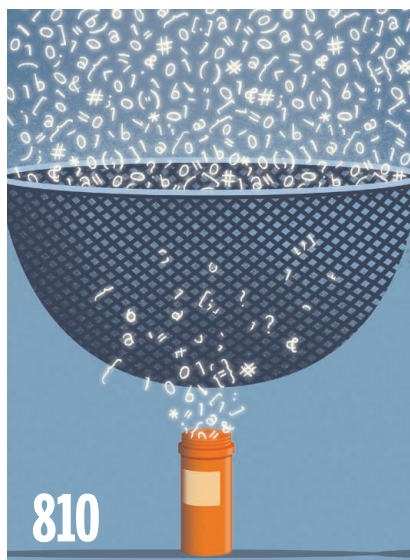
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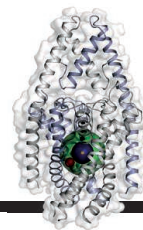
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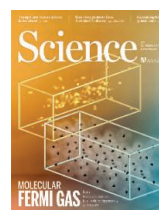
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ON THE COVER



Molecules produced at just a few billionths of a degree above absolute zero display exotic quantum properties. A classical gas of potassium-rubidium molecules is chemically reactive (top); when the gas is cooled to low temperatures, collective quantum effects govern how molecules move and collide, suppressing reactivity and enabling formation of a stable, degenerate molecular gas (bottom). See pages 820 and 853.

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