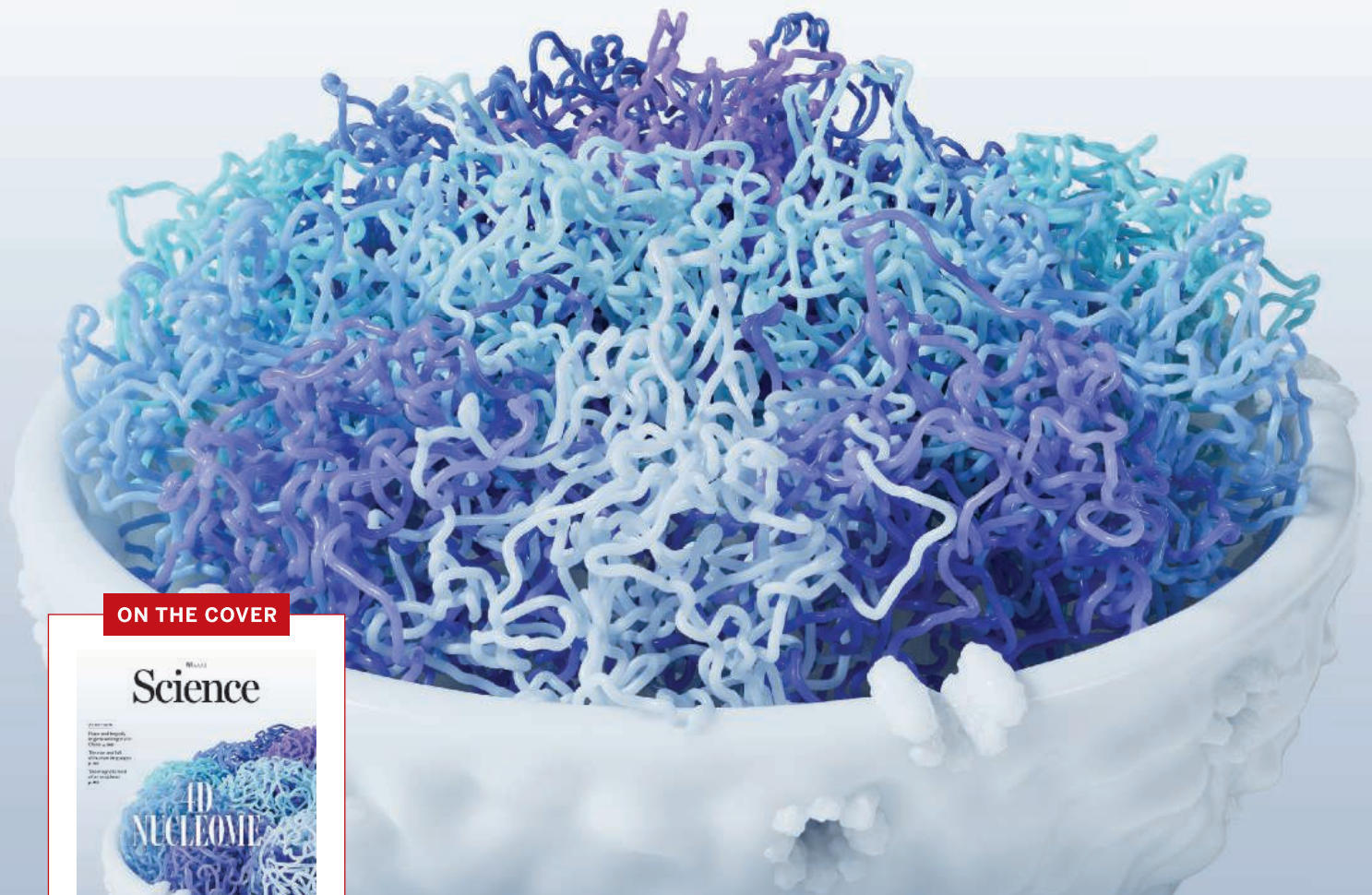


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Strands of DNA-like thread coil, loop, and spill upward, evoking the genome's dynamic three-dimensional architecture within the nucleus of a living cell. This special issue, with papers in *Science* and *Science Advances*, features single-cell and multiomic studies from the National Institutes of Health Common Fund's 4D Nucleome Program, which examines a fourth dimension of nuclear organization—how this folded structure shapes cell identity, shifts across development and aging, and goes awry in disease. See page 364 and 10.1126/sciadv.aek6870. Illustration: A. Fisher/*Science*

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