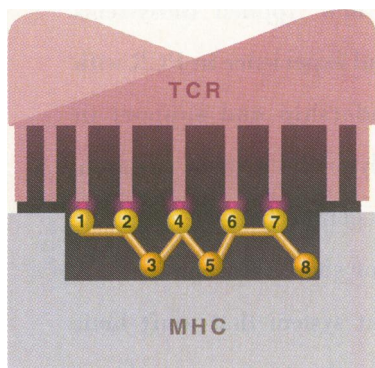


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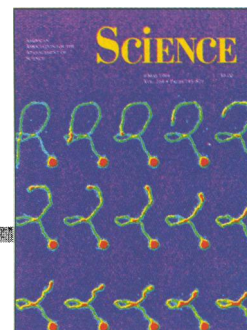
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Images of tube-like motion of a single DNA molecule. A fluorescently stained DNA molecule (60 micrometers long) was attached to a 1-micrometer polystyrene sphere (red) and moved through a background of concentrated, unstained  $\lambda$ -DNA. The DNA was stretched

out in the shape of an "R" by the use of joystick-controlled optical tweezers. The resulting tube-like motion is directly visualized in this series of pseudo-colored images spaced every 8.3 seconds. See pages 819 and 822. [Digital image: Thomas T. Perkins]



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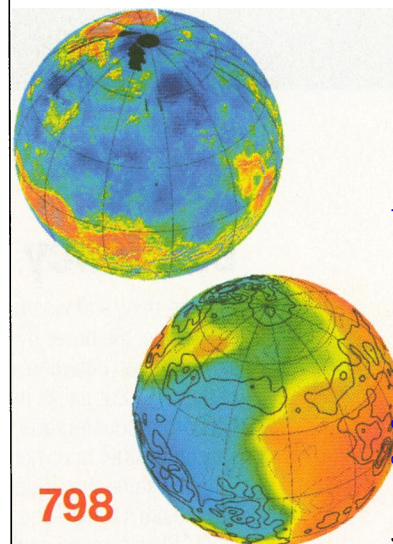
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