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Schematic representation of a DNA-protein hybrid object self-assembled from double-stranded DNA (gray) and a set of manufactured “staple” proteins (red). Each protein specifically recognizes and connects two sequences on the DNA template, thus folding it into a user-defined shape (for example, the tripod shown here). The hybrid objects self-assemble at near-physiological conditions from components that can be genetically encoded and produced in cells. As a result, this method has potential for intracellular customization of protein position or genomic DNA structure. See pages 1261 and 1283. Illustration: C. Bickel/Science

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Published by AAAS
Science 355 (6331), 1243-1342.