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Cover Illustration: Crystal structure of the hexagonal form of the Csy4-crRNA complex (Protein Data Bank code: 2xlj; Haurwitz RE, Jinek M, Wiedenheft B, Zhou K, Doudna JA. 2010. Sequence- and structure-specific RNA processing by a CRISPR endonuclease. *Science* **329**: 1355–1358). Image details show Csy4 endoribonuclease—ribbon representation, gold; Pa14 crRNA hairpin—ribbon-plate representation, grey backbone, green plates. The image was generated with the Accelrys Discovery Studio Visualizer. Cover image provided by the Jena Library of Biological Macromolecules—JenaLib (www.fli-leibniz.de/IMAGE.html).

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