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Cover photograph (Copyright © 2015, American Society for Microbiology. All Rights Reserved.): Mirror images of sequence logos for aligned LexA $\alpha 3$ helix sequences and their corresponding collections of experimentally validated LexA-binding sites in different clades. The figure illustrates the diversity of LexA $\alpha 3$ helix sequences that bind similar GAAC/GTAC half-sites, evidencing the evolutionary complexity of protein-DNA recognition schemes. (See related article on page 2622.)