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Cover photograph (Reprinted from Suen et al., PLoS Genet. 7:e1002007, doi:10.1371/journal.pgen.1002007, under Creative Commons Attribution License CC-BY.): *Atta colombica* leaf-cutter ants harvesting fresh foliar biomass for integration into the symbiotic fungus gardens that they cultivate for food. The gardens cultivated by these ants are composed of a primary fungal symbiont, *Leucoagaricus gongylophorus*, and a specialized community of bacteria. Genomic and metaproteomic investigations of these gardens suggest that *L. gongylophorus* is the primary driver of plant biomass degradation in these environments. (Photo by Jarrod J. Scott.) (See related article on page 3770.)