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*Cover photograph* (Copyright © 2012, American Society for Microbiology. All Rights Reserved.): Avocado (*Persea americana*) cultivar “Fuerte” contains high-molecular-weight double-stranded RNA (dsRNA) molecules. Cloning and sequencing of the largest of these molecules (dsRNA band on the top of the polyacrylamide gel inserted into one of the avocado fruits) showed that it corresponds to the genome of a new virus in the family *Endornaviridae*. Plant endornaviruses do not form virions, are transmissible only vertically, and do not cause any damage to the infected plants, maintaining an atypical persistent lifestyle. (César Navas and Alfredo Mancera helped to assemble the collage.) (See related article on p. 1282.)