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*Cover photograph* (Copyright © 2006, American Society for Microbiology. All Rights Reserved.): Pseudocolored scanning electron micrograph (magnification,  $\times 7,800$ ) showing a Vero cell infected with *Coxiella burnetii*, an obligate intracellular pathogen and the agent of human Q fever. The lumen of the lysosome-like parasitophorous vacuole was exposed using a dry-cleave method to reveal numerous pleomorphic bacteria. *C. burnetii* genes involved in remodeling this vacuole to promote robust growth are likely conserved among disparate *C. burnetii* isolates. (Image provided by Elizabeth Fischer of the Rocky Mountain Laboratories Microscopy Unit.) (See related article on page 2309.)