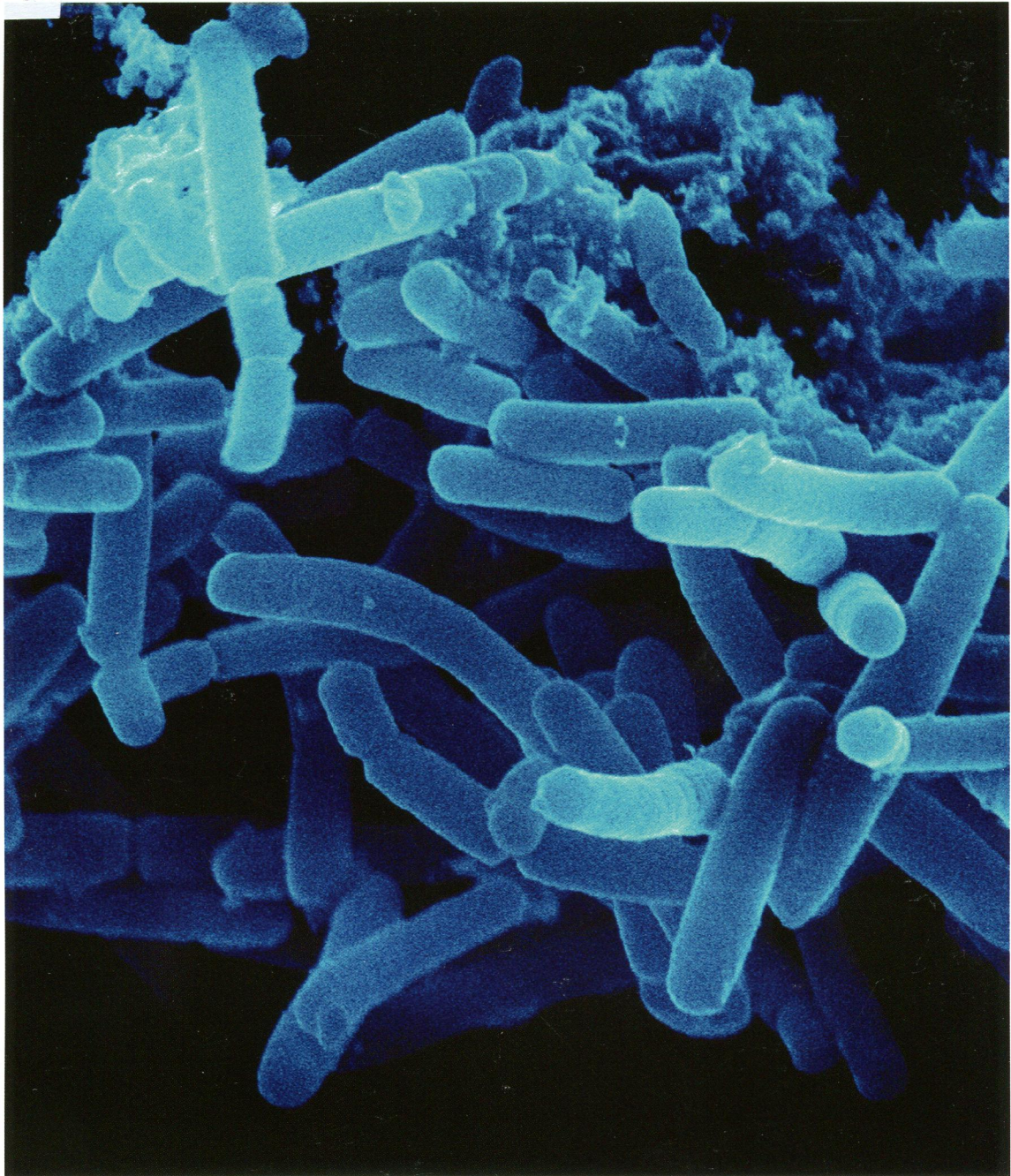


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*Cover photograph* (Copyright © 2014, American Society for Microbiology. All Rights Reserved.): The distal O polysaccharide is the outermost domain of Gram-negative bacterial lipopolysaccharide and is consequently involved in the interactions between the bacterium and the environment or host. *Pseudomonas aeruginosa* PAO1 produces two structurally distinct forms of O polysaccharide, the common polysaccharide antigen (CPA) and the O-specific antigen (OSA). A chromosomal knockout mutant of PAO1 that is defective in producing CPA ( $\Delta rmd$  mutant) was cultured as a biofilm *in vitro*. The image shows a small microcolony of cells from this strain after 48 h of growth. The photo of the biofilm obtained using scanning electron microscopy was artificially colored. (See related article on page 1306.)