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Cover photograph (Copyright © 2007, American Society for Microbiology. All Rights Reserved.): Visualization of the three-dimensional structure of intact *Flavobacterium johnsoniae* cells using cryo-electron tomography. Wild-type cells display tufts of ~5-nm-wide cell surface filaments that appear to be anchored to the inner surface of the outer membrane, which are absent in cells of a nonmotile *gldF* mutant. The locations of added round latex spheres (grey), filaments (gold), cytoplasmic and outer membranes (grey and light green, respectively), anchoring patches (red), and contributions from putative ribosomes in the cytoplasm (blue) are shown. (See related article on page 7503.)