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Cover photograph (Copyright © 2014, American Society for Microbiology. All Rights Reserved.): *Mycoplasma mobile* glides on solid surfaces in the direction of the tapered end by a unique mechanism. Its cell architecture, including the gliding machinery, has been printed out by using a personal-use three-dimensional printer. Hundreds of units are aligned on the cell surface; each of them is composed of a leg (Gli349, colored red) and a crank (Gli521, colored green) protein. The inside structure, named the “jellyfish structure” (colored orange or blue), includes F_1 -ATPase α - and β -subunit homologs. The three-dimensional printer is supported by the Japanese government as an activity of a MEXT research project, “Motility Machinery.” (See related article on page 1815.)