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Cover photograph (Copyright © 2009, American Society for Microbiology. All Rights Reserved.): Transmission electron micrograph of a cross-section of a tubule of the nascent light organ of a larval stage of the marine fish *Nuchequula nuchalis* (Leiognathidae) shortly after colonization by the luminous bacterium *Photobacterium leiognathi*. The tubule lumen is approximately 8 μm in diameter, and the bacterial cells are approximately 0.9 by 1.8 μm. At the upper right is a tubule that is beginning to form but is not yet colonized. Photo prepared by Sasha Meshinchi, Microscopy and Image Analysis Laboratory, and David Bay and Paul Dunlap, Department of Ecology and Evolutionary Biology, University of Michigan. (*See related article in December 2008, vol. 74, no. 24, p. 7471.*)

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