

APPLIED AND ENVIRONMENTAL MICROBIOLOGY

Volume 75

May 2009

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Cover photograph (Copyright © 2009, American Society for Microbiology. All Rights Reserved.): Antibody recognition force microscopy (Ig-RFM) images of a live *Shewanella oneidensis* MR-1 cell growing anaerobically on hematite ($\alpha\text{-Fe}_2\text{O}_3$). A height image (bottom) and an Ig-atomic force microscopy (AFM) image (top) were collected simultaneously using a silicon nitride AFM tip that was functionalized with anti-OmcA antibody. In the bottom image, red color is high and blue color is low. The top image shows where OmcA molecules were (red and yellow color) or were not (blue color) detected using an anti-OmcA-functionalized AFM tip. The cell is approximately 1 μm by 2 μm . Photos by B. H. Lower, R. Yongsunthorn, J.-F. Boily, L. Wildling, H. J. Gruber, T. C. Droubay, L. Shi, and S. K. Lower. (See related article on page 2931.)