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A platinum replica revealing the cytoplasmic face of a phagosome containing a mycobacterium. The phagosome was isolated from a bone marrow–derived murine macrophage, fixed in glutaraldehyde, and frozen on a liquid helium–cooled copper block before freeze-drying and rotary replication. The photomicrograph was scanned and colorized with Adobe Photoshop. See page 678 and the Perspective on page 637. [Photomicrograph: David G. Russell]