NEWS & COMMENT

New Fight Over Fetal Tissue Grafts 600
NIH: New Law Brings Affirmative Action to Clinical Research 602
NIH: Panel Proposes Guidelines for Industry 603
Japan: ERATO Grows Beyond Its Borders 603
A Strategic Message From Mikulski 604
A Costly Settlement Ends Whistle-Blower Suit 605

RESEARCH NEWS

Mining Treasures From 'Junk DNA' 608
Embryology: Watching New Developments—Live 610
Archeology: Did Early Humans Reach Siberia 500,000 Years Ago? 611
Inertia: Does Empty Space Put Up the Resistance? 612
Math Attendees Find There's Life After Fermat Proof 614

POLICY FORUM

Nuclear Test Ban Monitoring: New Requirements, New Resources 634
G. E. van der Vink and J. Park

DEPARTMENTS

THIS WEEK IN SCIENCE 589
EDITORIAL 591
Reflections on the Environment

LETTERS 593

SCIENCESCOPE 599

RANDOM SAMPLES 606

BOOK REVIEWS 696

The Astonishing Hypothesis, reviewed by J. J. Hopfield
Understanding Scientific Prose, K. S. Thomson
Archibald Garrod and the Individuality of Man, J. V. Neel
Quantum Well Lasers, K. Vahala
Vignette • Reprints of Books Previously Reviewed • Books Received

PRODUCTS & MATERIALS 703

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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]