NEWS & COMMENT

Forensic DNA Goes to Court With O.J.  1352
German Lab Points the Way in Hunt for 'Hot' Plutonium  1355
Scopes and Squirrels Return to Court  1356
Bromley Memoirs Take Off the Gloves  1357
Buckyballs and Kin Are Still on a Roll  1357

RESEARCH NEWS

The Solar System's New Diversity  1360
Micro-Quasars Found in Our Galaxy  1362
Making Molecular Filters More Reactive  1363
Link to Hereditary Melanoma Brightens  1364
Mood for p16 Gene  1365
Alzheimer's: Could There Be a Zinc Link?  1365

RESEARCH ARTICLE

Structures of Active Conformations of GTPyS and the Mechanism of GTP Hydrolysis  1405

REPORTS

Molecular Recognition by Self-Assembled Monolayers of Cavitation Receptors  1413

DEPARTMENTS

THIS WEEK IN SCIENCE  1341
EDITORIAL  1343
LETTERS  1345


FRONTIERS IN MEDICINE: VACCINES  NEWS REPORTS

Bumps on the Vaccine Road  1371
Are Researchers Racing Toward Success, Or Crawling?  1373
U.S. National Program Is Going Nowhere Fast  1375
Children's Vaccine Initiative Stumbles  1376
The United States Needs a National Vaccine Authority  1378
B. R. Bloom

POLICY FORUM

Nanocatalysis by the Tip of a Scanning Tunneling Microscope Operating Inside a Reactor Cell  1415
B. J. McIntyre, M. Salmeron, G. A. Somorjai

A Redox Fuel Cell That Operates with Methane as Fuel at 120°C  1418

PERSPECTIVES

Malaria Vaccines: Multiple Targets  1381
R. S. Nussenzweig and C. A. Long

Vaccines for Varicella-Zoster Virus and Cytomegalovirus: Recent Progress  1383
S. A. Plotkin

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
This Frontiers in Medicine issue addresses the science and politics of vaccines. The hypodermic syringe, a classic tool of vaccination, may soon be out-of-date. A global effort is underway to produce a "supervaccine" that would confer, in a single oral dose, lifetime immunity against many of the major infectious diseases. A special section begins on page 1371 and related Reports on pages 1448 and 1451. [Images: needle, Peter Steiner/The Stock Market; globe, Tom Van Sant/Geosphere Project/The Stock Market. Illustration: E. Carroll]