1527 This Week in Science

Editorial

1529 Uncertainties About Global Warming

Letters

1530 Takeover Bid: Chiron's Discussions with the Media: W. J. Rutter • Patent Court Scientist: K. A. Ream • Organoids and Genetic Drugs: T. Maciag • Department Size and Quality: J. A. Gallant and J. W. Prothero

News & Comment

1532 Déjà Vu in AIDS Priority Fight • Gallo's Potential Jurors
1534 Hot Fusion: A Meltdown in Political Support
1536 MIT Tenure Case Heads for Trial • Call for Environment Institutes
1537 Bacteria Effective in Alaska Cleanup
1538 Imported Monkey Puzzles • Trouble Ahead for the SSC?
1539 Briefings: Better Numbers on Primate Research • Activists Urge Ban on Herbicide R&D • Schizophrenics' Brains • Tyler Prize Goes to Cornell Scientists

Research News

1540 Dissecting the Complex Diseases • From the Tomato to the Mouse
1543 Spontaneous Order, Evolution, and Life
1545 The Chase Continues for Metallic Hydrogen
1546 Hubble Space Telescope Takes Aim at the Stars

Articles

1548 Population Dynamics of the United States and the Soviet Union: B. B. Torrey and W. W. Kingrade
1553 Soft X-ray Lasers and Their Applications: S. Suckewer and C. H. Skinner

Research Article

1558 Precise Monitoring of Global Temperature Trends from Satellites: R. W. Spencer and J. R. Christy
COVER  Skull of the earliest known relative of the higher primates (including humans) *Catopithecus browni* from early Tertiary deposits in northeastern Africa. Of probable late Eocene age, this skull shows several characteristics that rank it with the early higher primates of the Old World (Catarrhini). See page 1567. [Dave Leonhard, senior photographer, Audiosvisual Medical Photography, Duke University]

**Reports**

1563  A Cellular Automaton Model of Excitable Media Including Curvature and Dispersion: M. GERHARDT, H. SCHUSTER, J. J. TYSN

1567  Discovery of the Oldest Known Anthropoidean Skull from the Paleogene of Egypt: E. L. SIMONS

1569  Intraradular Diffusion: An Important Mechanism Influencing Solute Transport in Clastic Aquifers?: W. W. WOOD, T. F. KRAEMER, P. P. HEARN, JR.

1572  Orientational Dielectric Relaxation of Collisionless Molecules: F. W. FARLEY AND G. M. MCCLELLAND

1575  The Actin-Binding Protein Profilin Binds to PIP$_2$ and Inhibits Its Hydrolysis by Phospholipase C: P. J. GOLDSCHMIDT-CLERMONT, L. M. MACHESKY, J. J. BALDASSARE, T. D. POLLARD

1578  Binding of GAP to Activated PDGF Receptors: A. KAZLAUSKAS, C. ELLIS, T. PAWSON, J. A. COOPER

1581  A New Member of the Leucine Zipper Class of Proteins That Binds to the HLA DR$\alpha$ Promoter: H.-C. LIOU, M. R. BOOTHBY, P. W. FINN, R. DAVIDSON, N. NABAVI, N. J. ZELEZNIEK-LE, J. P.-Y. TING, L. H. GLIMCHER

1584  T Cell Antigen Receptor–Mediated Activation of Phospholipase C Requires Tyrosine Phosphorylation: T. MUSTELIN, K. M. COGGESHALL, N. ISAROV, A. ALTMAN

1587  Limit of T Cell Tolerance to Self Proteins by Peptide Presentation: H. SCHILD, O. RÖTZEKHE, H. KALBACHER, H.-G. RAMMENSEE

1589  Endogenous Cholecystokinin Reduces Feeding in Young Rats: A. WELLER, G. P. SMITH, J. GIBBS

**Book Reviews**

1592  The Uses of Experiment, reviewed by Y. GINGRAS  Synthetic Fuel Technology Development in the United States, F. J. T. MORRIS  Some Other Books of Interest  Books Received

*Author Index to Volume 247 is found on pages I–X  Information for Contributors is found on XI–XII*