LETTERS
Hypertension and Calcium: M. Feinleib, C. Lenfant, S. A. Miller; D. A. McCarron, C. D. Morris, J. L. Stanton........ 384

EDITORIAL
Let Them Eat Cake: G. Piel............................ 393

ARTICLES
Trapped Ions, Laser Cooling, and Better Clocks: D. J. Wineland.................. 395
Prospects for Human Gene Therapy: W. F. Anderson....................... 401
Heterochronic Mutants of the Nematode Caenorhabditis elegans: V. Ambros and H. R. Horvitz........ 409

NEWS AND COMMENT
Congress Votes NIH a Big Budget Boost.................................... 417
Universities Prevail on Secrecy........................................... 418
Medical Education Under Fire............................................... 419
Briefing: Big Boost for AID Population Budget; Ohio State Offers to Buy Back Its Telescope; Leadership Suffering on Many College Campuses; Comings and Goings................ 420
Congress Approves Nuclear Weapons Buildup.............................. 422
Saving Chimps for Research................................................ 423
FDA Hit on Device Regulation............................................. 424

RESEARCH NEWS
New Clues to Developmental Timing...................................... 425
How Fast Is Oil Running Out?............................................. 426
New Regulatory Mechanism of Parasitism................................. 427

Archeology Briefing: Reading Old Bones: The Problems; Cutmarked Bones: Look, No Hands; Bone Tools from Olduvai Gorge; Season of Death Indicates Mastodon Hunting........ 428
### BOOK REVIEWS

Direct Nuclear Reactions and Direct Nuclear Reactions, reviewed by P. D. Kunz; Concepts of Particle Physics, H. A. Weldon; Amedeo Avogadro, S. Pierson; Social Cognition, E. E. Jones; Books Received ............................

### REPORTS

Energy Conservation Through More Efficient Lighting: J. Maya et al. ............
Iridium Anomaly in the Upper Devonian of the Canning Basin, Western Australia: P. E. Playford et al. ........................................
A New Basis for Recognizing the Paleocene/Eocene Boundary in Western Interior North America: S. L. Wing ........................................
Cretaceous-Paleocene Terrestrial Faunas of India: Lack of Endemism During Drifting of the Indian Plate: A. Sahni ........................................
A Conformationally Constrained Vasopressin Analog with Antidiuretic Antagonistic Activity: G. Skala et al. ............................
Estrogen-Dependent Leydig Cell Protein Recognized by Monoclonal Antibody to MCF-7 Cell Line: D. R. Ciocca and M. L. Dufau ............................
HTLV-III in Saliva of People with AIDS-Related Complex and Healthy Homosexual Men at Risk for AIDS: J. E. Groopman et al. ............................
HTLV-III in Cells Cultured from Semen of Two Patients with AIDS: D. Zagury et al. ............................
HTLV-III in the semen and Blood of a Healthy Homosexual Man: D. D. Ho et al. ............................
Prevalence of Antibodies to Lymphadenopathy-Associated Retrovirus in African Patients with AIDS: F. Brun-Vezinet et al. ............................
Alteration of T-Cell Functions by Infection with HTLV-I or HTLV-II: M. Popovic et al. ............................
Separation of Morphine Analgesia from Physical Dependence: G. S. F. Ling et al. ............................
Growth Hormone-Releasing Factor: Direct Effects on Growth Hormone, Glucose, and Behavior via the Brain: G. S. Tannenbaum ............................
Adriamycin-Induced DNA Damage Mediated by Mammalian DNA Topoisomerase II: K. M. Tewey et al. ............................

### COVER

Three-dimensional surface reconstructions of a 30-million-year-old fossil mammal (*Stenopsochoerus*) generated from serial computerized tomography scans of its skull. Both ecto- and endocranial stone matrix have been "removed" (made transparent) by computer methods to reveal the true osseous contours of the fossil. See page 456. [Photograph by C. Ungar in collaboration with M. Vannier, Washington University School of Medicine, St. Louis, Missouri 63110]