This Week in Science ........................................... 782

LETTERS

"Nuclear Winter" Models: A. E. Strong; Verification of Nuclear Testing: J. F. Evernden; W. J. Hannon ............... 792

EDITORIAL

A Welcome Grace Note ............................................. 797

ARTICLES


Human GM-CSF: Molecular Cloning of the Complementary DNA and Purification of the Natural and Recombinant Proteins: G. G. Wong et al. ............... 810

The LDL Receptor Gene: A Mosaic of Exons Shared with Different Proteins: T. C. Sudhof et al. .................. 815

Genes-in-Pieces Revisited: W. Gilbert .......................... 823

NEWS AND COMMENT

Summit Calls for Research Integration .......................... 825

NAS Elects New Members ......................................... 826

Court Hears Suit on Biowarfare Laboratory ...................... 827

Soviet Biowarfare Efforts Cited by Pentagon .................... 828

Desperately Seeking Salmonella in Illinois ...................... 829

Briefing: HHS Revises Rules on Animal Research; Congress Rearranges NRC's Priorities; Ohio State, Arizona to Build Giant Telescope; Senators Criticize Lopsided Chemical Weapons Panel; EVIST to Be Salvaged, More or Less; ERAB Panel Ranks Major Materials Facilities .................. 830

RESEARCH NEWS

Number Theory Connections ...................................... 833

When Are Viscous Fingers Stable? .............................. 834

Evidence for Scientific Creationism? .......................... 837
BOOK REVIEWS

Darwin’s Earliest Letters: S. S. Schweber; other reviews by D. C. Cassidy, E. C. Patterson, K. Szymborski, P. H. Abelson ........................................ 838

On Technological Catastrophe: L. Hirschhorn; other reviews by L. Cohen, B. A. Bolt, A. Levine, D. Landy .................................................. 846

An Academic Preeminence: J. H. Turner; other review by J. Gilbert .......... 851

An Anniversary in Astronomy: V. R. Eshleman; other reviews by L. M. Brown, G. Bertsch, P. R. Vogt .................................................. 854

A Biologization at Stake: M. J. West; other reviews by R. J. Richards, R. Fendrich, R. Blake .................................................. 860

Issues of Gene Regulation: G. D. Ginder; other reviews by H. C. Hartzell, R. Aldrich .................................................. 865

The Emergence of Homo sapiens: R. H. Tuttle; other reviews by D. K. Grayson, R. E. Morlan .................................................. 868


Books Received ........................................................................... 876

Books Reviewed in Science ........................................................................... 902

REPORTS

Occurrence of Giant Impacts During the Growth of the Terrestrial Planets: G. W. Wetherill .................................................. 877

Expression of the Major Surface Antigen of Plasmodium knowlesi Sporozoites in Yeast: S. Sharma and G. N. Godson .................................................. 879

Modulation of the sis Gene Transcript During Endothelial Cell Differentiation in Vitro: M. Jaye et al. .................................................. 882

Matrix-Driven Translocation of Cells and Nonliving Particles: S. A. Newman et al. .................................................. 885

High-Affinity Uptake of Serotonin into Immunocytochemically Identified Astrocytes: H. K. Kimelberg and D. M. Katz .................................................. 889

Retinal S Antigen Identified as the 48K Protein Regulating Light-Dependent Phosphodiesterase in Rods: C. Pfister et al. .................................................. 891

Cassette of Eight Exons Shared by Genes for LDL Receptor and EGF Precursor: T. C. Südhof et al. .................................................. 893

Sex Ratio Adjustments in Fig Wasps: E. A. Herre .................................................. 896

Multiple Circadian Oscillators Regulate the Timing of Behavioral and Endocrine Rhythms in Female Golden Hamsters: J. M. Swann and F. W. Turek .................................................. 898

Technical Comment: Diurnal Rhythms of N-Acetylseryotonin and Serotonin in Cerebrospinal Fluid of Monkeys: P. A. Taylor et al. .................................................. 900

COVER

Silhouettes of most of the extinct late Pleistocene Australian vertebrate species, drawn to scale. The height of the kangaroo in the center of row 5 is about that of an adult human male. [From Peter Murray, “Extinctions down-under: A bestiary of extinct Australian late Pleistocene monotremes and marsupials,” in Quaternary Extinctions (Paul S. Martin and Richard G. Klein, Eds.), reviewed on page 870]