29 October 1965
Vol. 150, No. 3696

LETTERS
Radiation Exposure Records of Personnel: H. Blatz; Aptitude and Achievement: Differences at the Top: G. S. Kleinman; Legacy of the Flexner Report: J. T. Flynn; Webs: F. Allen

EDITORIAL
After the Manned Lunar Landing?

ARTICLES
Geophysical Observations from Nimbus I: W. Nordberg
Computer-Aided Instruction: J. A. Swets and W. Feurzeig
Chemical-Biochemical Signal and Noise: S. Freed

NEWS AND COMMENT
Robert Burns Woodward Awarded Nobel Prize in Chemistry for 1965:
P. D. Bartlett, F. H. Westheimer, G. Bijich
Tomonaga, Schwinger, and Feynman Awarded Nobel Prize for Physics: F. J. Dyson

BOOK REVIEWS
Scientists in Politics: W. S. Sayre
Mach Bands: Quantitative Studies on Neural Networks in the Retina, reviewed by C. H. Graham; other reviews by R. L. Schoenfeld, J. W. Marvin and F. H. Taylor, J. Lamperti, L. P. Williams, S. W. Weller; Reprints: Conference and Symposium Reports

REPORTS
Soudan Formation: Organic Extracts of Early Precambrian Rocks: W. G. Meinschein
Ribosomes: Analysis by Cesium Sulfate Gradient Centrifugation: F. M. DeFilippes
Reversible, Light-Screening Pigment of Elasmobranch Eyes: Chemical Identity with Melanin: D. L. Fox and K. P. Kuchnow
Regulation of Cockroach Fat-Body Metabolism by the Corpus Cardiacum in vitro:  
A. W. Wiens and L. I. Gilbert .......................................................... 614

Glycerol Metabolism in the Human Liver: Inhibition by Ethanol:  
F. Lundquist et al. ..................................................................................... 616

Sperm Capacitation by Uterine Fluid or Beta-Amylase in vitro:  
K. T. Kirton and H. D. Haf ................................................................. 618

Herbicide Metabolism: N-Glycoside of Amiben Isolated from Soybean Plants:  
S. R. Colby ......................................................................................... 619

Lithocholic Acid in Human-Blood Serum: J. B. Carey, Jr., and G. Williams ........ 620

Template Activity of RNA from Antibody-Producing Tissues:  
B. Mach and P. Vassalli ................................................................. 622

Collagenase: Effect on the Morphogenesis of Embryonic Salivary Epithelium in vitro:  
C. Grobstein and J. Cohen .................................................................... 626

Protein Synthesis in Rat Liver: Influence of Amino Acids in Diet on Microsomes and Polysomes:  
A. Fleck, J. Shepherd, H. N. Munro ..................................................... 628

Spectrophotometer: New Instrument for Ultrarapid Cell Analysis:  
L. A. Kamentsky, M. R. Melamed, H. Derman ........................................ 630

Odorous Secretion of Normal and Mutant Tribolium confusum: M. Engelhardt, H. Rapoport, A. Sokoloff .......................................................... 632

Hydra: Induction of Supernumerary Heads by Isolated Neurosecretory Granules:  
T. L. Lentz ......................................................................................... 633

Soluble Proteins of a Melanoma and Normal Skin from the Swordtail, Platypus, and Their Hybrids: D. G. Humin and A. L. Sylvia .......................... 635

Differential-Approach Tendencies Produced by Injection of RNA from Trained Rats: A. L. Jacobson et al ............................................................. 636

Nicotine: Effect on the Sleep Cycle of the Cat: E. F. Domino and K. Yamamoto ................................................................. 637

ASSOCIATION AFFAIRS

AAAS Annual Meeting: Evolution ............................................................ 639

MEETINGS

Insect Biochemistry: L. Levenbook; Electron-Spin-Resonance Signals and Biological Effects: F. Hutchinson; Forthcoming Events ........................................ 643

COVER

Chromosomes in meiosis. This strange anthropomorphic configuration appeared at prometaphase in a microsporocyte. A ring of six chromosomes creates the outline of the “face.” Four bivalents form the “eyes,” “nose,” and “mouth,” giving a chromosome number of 2n = 14. This anomaly is one outcome of a study of reciprocal translocations in chromosomes of Gayophytum eriospermum (about × 5200). [Leonard B. Thein, University of California, Los Angeles]