LETTERS


EDITORIAL

AAAS Space Poll

ARTICLES

Modification Experiments on Tropical Cumulus Clouds: J. S. Malkus and R. H. Simpson

Enzymatic Alteration of Nucleic Acid Structure: P. R. Srinivasan and E. Borek


NEWS AND COMMENT


BOOK REVIEWS

A Molecular Messiah: The New Gospel in Genetics?: R. C. Lewontin


REPORTS

X-ray Diffraction Studies on Dysprosium at High Pressures: J. C. Jamieson

High Pressure: Effect on Dysprosium: P. C. Souers and G. Jura

Neutral Salts: The Generality of Their Effects on the Stability of Macromolecular Conformations: P. H. von Hippel and K.-Y. Wong

Recent High Relative Sea Level Stand near Recife, Brazil: T. H. van Andel and J. Laborel

Superconducting Metastable Compounds: H. L. Luo, M. F. Merriam, D. C. Hamilton

Differential Estimation of Gamma-butyrolactone and Gamma-hydroxybutyric Acid in Rat Blood and Brain: N. J. Giarman and R. H. Roth

Therapeutic Antiviral Action of 5-Trifluoromethyl-2'-deoxyuridine in Herpes Simplex Keratitis: H. E. Kaufman and C. Heidelberger
Extracellular Polysaccharides of Algae: Effects on Life-Support Systems:  
B. G. Moore and R. G. Tischer ............................. 586

Homocystinuria: Absence of Cystathionine in the Brain:  
T. Gerritsen and H. A. Waisman ............................. 588

Sialic Acid–Containing Glycopeptide from Chlorella: D. L. Correll ............................. 588

Tobacco Mosaic Virus: Cytological Evidence of the Synthesis in the Nucleus:  
T. Hirai and A. Hirai ........................................ 589

Circulatory Adaptation to Diving in the Freshwater Turtle: J. E. Millen et al. ......... 591

Specificity of Potassium-Activated Phosphodiesterase of Escherichia coli:  
M. F. Singer and G. Tolbert ..................................... 593

Human Erythrocyte Lactate Dehydrogenase: Four Genetically Determined Variants:  
A. P. Kraus and C. L. Neely, Jr. ................................ 595

Myosin Substructure: Isolation of a Helical Subunit from Heavy Meromyosin:  
S. Lowey .......................................................... 597

Mosaic Hemoglobin Types in a Pair of Cattle Twins:  
C. Stormont, B. G. Morris, Y. Suzuki .................................. 600

Protein-Bound Iodine in Serum of Rats Breathing 99 Percent Oxygen:  
P. Felig, J. K. Goldman, W. L. Lee, Jr. ......................... 601

Behavior in Hydra: Inhibition of the Contraction Responses of Hydra pirardi:  
N. B. Rushforth, I. T. Krohn, L. K. Brown ...................... 602

Intercellular Electrical Coupling at a Forming Membrane Junction in a Dividing Cell:  
R. F. Ashman, Y. Kanno, W. R. Loewenstein .................. 604

Oxidation of Extramitochondrial Diphosphopyridine Nucleotide by Various Tissues of the Mouse: B. Sacktor and A. R. Dick ........................................ 606

Inhibition of Antibody Plaque Formation by Sensitized Lymphoid Cells: Rapid Indicator of Transplantation Immunity: H. Friedman ................. 607

Physiological Studies on Fruit Development by Means of Ovule Transplantation in vivo: V. L. M. Melnick, L. Holm, B. E. Struckmeyer ..................... 609


MEETINGS

Applied Microbiology in Developing Countries: M. Alexander; Heterogeneity of Antibodies: F. Aladjem and H. Fudenberg; Forthcoming Events .......... 613

DEPARTMENTS

New Products .......................................................... 619

COVER

Development of seeded cloud on 20 August 1963. (Top left) Time of seeding; (top right) just before maximum vertical growth, 9 minutes later. (Bottom left) Horizontal "explosion" underway, 19 minutes after seeding; (bottom right) cloud has attained giant proportions, 38 minutes after seeding. The pyrotechnic silver iodide generator (center) was developed by the Naval Ordnance Test Station for this experimental program. See page 541.