Editorial

The Thalidomide Lesson

Articles

Intracellular Oxidation-Reduction States in Vivo: B. Chance et al.

The microfluorometry of pyridine nucleotide gives a continuous measurement of the oxidation state.

Cesium-137 in Man: C. O. Onstead, E. Oberhausen, F. V. Keary

Fallout was decreasing at a rate equivalent to a half-life of 1 year before testing was resumed.

Alfvén Waves: F. I. Boley and J. M. Wilcox

These waves, predicted by Alfvén, have been studied in laboratory and geophysical plasma experiments.

News and Comment

Neither the Republicans nor the Russians accept the new U.S. test-ban position

Book Reviews

International Educational Programs: F. Bowles

American higher education's commitment to world education is one of our most important undertakings.

Handbook of North American Birds, reviewed by A. H. Miller; other reviews

Reports

Archeological Survey and Excavation in Iran, 1961: F. Hole

Stranded Arrangement of Sporopollenin in the Exine of Microspores of Poa annua: J. R. Rowley

Radiocarbon Ages of Postglacial Lake Clays near Michigan City, Indiana: E. M. Winkler


Operant Conditioning of Heart Rate: D. W. Shearn

Spinal Cord Convulsions in Developing Rats: A. Vernadakis

Beta Brain Waves as an Index of Alertness: R. E. Dustman, R. S. Boswell, P. B. Porter

Action of Acetylcholine on Bivalve Hearts: M. J. Greenberg and D. A. Windsor

Effect of Rotation on Flowering Response of Xanthium pennsylvanicum: T. Hoshizaki and K. C. Hamner

Antigenic Structure of Plasmodium vinckeii: D. Spira and A. Zuckerman

Substituted Uracil Herbicides: H. C. Bucha et al.

Patterns of Gene Pleiotropy in Morphogenetic Processes: K. C. Sondhi

Theory of Homologous Sublattices and Intracrystalline Equilibria: R. F. Mueller

Narcotic Antagonists as Analgesics: S. Archer et al.

Recognition and Quantitation of Herpesvirus Particles in Human Vesicular Lesions: K. O. Smith and J. L. Melnick

Protection of Rats against Adjuvant Arthritis by Bacterial Lipopolysaccharides: F. D. Wood and C. M. Pearson

Tissue Cultures of a Cactus: C. E. Steinhart

Departments

New Products

Comparative Pathology: An Opportunity for Biologists?: Forthcoming Events

Cover

Prehistoric blue pigment from Chichen Itza, Yucatan, used on temple frescoes and ritual vessels. The fibers are attapulgite, but the fact that no natural occurrence of blue attapulgite is known suggests that this is an artificial pigment. The color is remarkably stable, although the pigment contains no color-producing ions. Experiments are in progress to determine whether it is a clay-organic complex (× 33,000). [John C. Hathaway, U.S. Geological Survey, Denver, and Anna O. Shepard, U.S. Geological Survey and Carnegie Institution of Washington]