Editorial
Humane Treatment of Animals

Articles
Nuclear Properties of Antinucleons: E. Segre
The study of antiprotons reveals other antiparticles previously predicted and also unpredictable aspects of the scattering and annihilation process.

General Theory of Mortality and Aging: B. L. Strehler and A. S. Mildvan
A stochastic model relates observations on aging, physiologic decline, mortality, and radiation.

Roy Chapman Andrews, Explorer: E. H. Colbert

Science in the News
Funds for Science Foundation and Space Agency; Pauling vs. the Senate Internal Security Committee; Un-American Science

Book Reviews
T. C. Schelling's *The Strategy of Conflict*, reviewed by P. Kecskemeti; other reviews

Reports
Suppression of Pain by Sound: W. J. Gardner, J. C. R. Licklider, A. Z. Weisz

Arizona's Oldest Cornfield: P. S. Martin and J. Schoenwetter

Environmental Factors Influencing Progeny Yields in *Drosophila*:
W. C. Levengood and M. P. Shinkle

Observations on the Behavior of the Porpoise *Delphinus delphis*:
R. L. Edwards and R. Livingstone, Jr.

Osmotic Pressure and Aqueous Humor Formation in Dogfish:
R. F. Doolittle, C. Thomas, W. Stone, Jr.

Control of Vocal Responding in Chickens: H. Lane

Descending Projections to Spinal Motor and Sensory Cell Groups in the Monkey:

Possible Two-Stage Mechanism in Experimental Leukemogenesis:
I. Berenblum and N. Trainin

Influence of Anabolic Steroids on Uptake of Alpha-Aminoisobutyric Acid by Levator Ani Muscle: W. Metcalf and E. Gross

Effects of Ethyl Alcohol on Avoidance Behavior: G. S. Reynolds and P. van Sommers

Reversible Inhibition of Beef Heart Cytochrome c Oxidase by Polyionic Macromolecules: P. Person and A. Fine

Trophic Substances in a Blind Cave Crayfish: M. Fingerman and W. C. Mobberly, Jr.

Departments
Letters from R. E. Lapp; S. Rubin; B. Baldwin and M. Walton; G. A. Vance

Southwestern and Rocky Mountain Division; Forthcoming Events

Cover