LETTERS  XYY Chromosome: Premature Conclusions: S. Kessler and R. H. Moos; Defoliants: Orange, White, and Blue: G. H. Orians and E. W. Pfeiffer; C. Leuba; Evolution or Not: J. E. Guilday and M. R. Dawson; J. L. King

EDITORIAL  The Control of Technology: O. M. Solandt

Mechanism of Lysozyme Action: D. M. Chipman and N. Sharon
Some Ecological Benefits of Woody Plant Control with Herbicides: K. C. Barrons
Materials Science and Applied Science: W. A. Tiller

NEWS AND COMMENT  Hash in Holland: The Dutch Find It Easier To Let Traffic Flourish
Warm-Water Irrigation: An Answer to Thermal Pollution?
Harvard Graduate School: The Elite Response to Enrollment Pressures


REPORTS  Crustal Plates in the Central Atlantic: Evidence for at Least Two Poles of Rotation: P. J. Fox, W. C. Pitman III, F. Shephard
Clathrate Hydrates of Air in Antarctic Ice: S. L. Miller
Potentially Lethal Radiation Damage: Repair by Mammalian Cells in Culture: J. A. Belli and M. Shelton
Indole(ethyl)amine N-Methyltransferase in the Brain: M. Morgan and A. J. Mandell ........................................ 492
2-p-Toluidinyl-6-Naphthalene Sulfonate: Relation of Structure to Fluorescence Properties in Different Media: A. Camerman and L. H. Jensen ............................................. 493
Induction in vitro of Microtubular Crystals by Vinca Alkaloids:
K. G. Bensch et al. .................................................................................................................. 495
Estradiol: Specific Binding by Pituitary Nuclear Fraction in vitro:
W. W. Leavitt, J. P. Friend, J. A. Robinson ........................................................................ 496
Vinblastine-Induced Precipitation of Microtubule Protein:
R. Marantz, M. Ventilla, M. Shelanski ................................................................................ 499
Circadian Rhythm of Cell Division in Euglena: Effects of a Random Illumination Regimen:
L. N. Edmunds, Jr., and R. R. Funch .................................................................................. 500
Toad Urinary Bladder: Intercellular Spaces: D. R. DiBona and M. M. Civan .................. 503
Nonequivalent Binding of a Spin-Labeled Inhibitor to Ribonuclease:
G. C. K. Roberts, J. Hannah, O. Jardezky ......................................................................... 504
Anaphylatoxin Release from the Third Component of Human Complement by Hydroxylamine: D. B. Budzko and H. Müller-Eberhard .................................................. 506
Neutralization of Sensitized Virus by the Fourth Component of Complement:
C. A. Daniels et al. .................................................................................................................. 508
Ventricular Arrhythmias Related to Antibiotic Usage in Dogs: T. J. Regan et al. ........ 509
Crystalline l-Asparaginase from Escherichia coli B: P. P. K. Ho, B. H. Frank, P. J. Burck .............................................. 510
Potential Energy Fields about Nitrogen in Choline and Ethanolamine: Biological Function at Cellular Surfaces: J. E. Zull and A. J. Hopfänder ......................................................... 512
Human Growth Hormone Release: Relation to Slow-Wave Sleep and Sleep-Waking Cycles: J. F. Sassin et al. ........................................................................................................ 513
Technical Comments: Surveyor Alpha-Scattering Data: Consistency with Lunar Origin of Eucrites and Howardites: M. B. Duke; Cyclamates and Human Cells: R. S. Goodhart; D. Stone; Procarbazine: Chemical Immunosuppressant also Powerful Carcinogen: J. H. Weisburger ........................................ 515

Courses ................................................................................................................................. 518

COVER

Crystals of l-asparaginase from Escherichia coli B. Partially purified l-asparaginase has demonstrable anti-leukemic activity in animals and man. Crystals of this enzyme, prepared by a simple and efficient process, were effective in experimental tumor systems without adverse side effects (about ×1300). See page 510. [Peter P. K. Ho, Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, Indiana]