Contents

1 The Fatty Acid Composition of the Phosphatides of Normal and Malignant Epidermis. Christopher Carruthers.


15 Free Amino Acids and Related Compounds in the Blood and Urine of Patients with Malignant Melanoma. Sue Ellen Young, A. Clark Griffin, Alice N. Milner, and John S. Stohlin, Jr.


26 Combination Therapy of 3-Methylcholanthrene-induced Mammary Carcinoma in Rats: Effect of Chemotherapy, Ovariectomy, and Food Restriction. L. Gropper and M. B. Shimkin.

33 Reaction Mechanism of Some Aromatic Nitrogen Mustards. Charles E. Williamson and Benjamin Witten.

39 Radioresistance of Leukemic and Nonleukemic Lymphocytes. Ralph E. Johnson.

43 Carcinogenesis in AKR Mice Injected at Birth with Benzo(a)pyrene and Dimethylnitrosamine. Bela Toth and Philippe Shubik.

52 Turnover of 45 S RNA of Regenerating Liver and Walker Tumor. Samson T. Jacob, William J. Steele, and Harris Busch.


76 The Oxidation of Extramitochondrial Reduced Diphosphopyridine Nucleotide in Ascites Tumor Cells. Ruth Naon, Dalisa Ram, and Leah Bloch-Frankenthal.


88 Neutralization of Sublines of a Mouse Leukemia Virus with Murine Antibody, as Measured by the Spleen Focus Assay. J. G. Sinkovics, R. J. Pienta, M. Fiorentino, and B. A. Bertin.

95 Survival Time and Mode of Death in Treated and Untreated Mice with Bergen A4 Ascites Carcinoma. F. Hartweil.

98 Inhibition of in Vitro Lymphocyte Transformation during Chemotherapy in Man. Evan M. Hersh and Joost J. Oppenheim.


124 Inhibition of DNA Synthesis in HeLa Cells by Hydroxyurea. S. E. Pfeiffer and L. J. Tolmach.


159 Effects of Antitumor Agents on the Synthesis of Nucleolar DNA. Raoul Desjardins, Donald E. Grogan, Joe P. Arendell, and Harris Busch.

165 Ultrastructural Changes Produced by Tripasanol in Morris 5123 and Novikoff Hepatomas. William C. Rubright, Owen Keller, and Zdenek Hruban.

(Continued on reverse side)
Continued from previous page

172 The Reduction of the Tumorigenicity of Cigarette Smoke Condensate by Addition of Sodium Nitrate to Tobacco. Dietrich Hoffmann and Ernest L. Wynder.

175 The Specificity of Inhibition of L1210 Tumor Growth by Mouse Thymus Deoxyribonucleic Acid. J. Leslie Glick.


191 Effect of Human Cancerous Serum on the Chick Embryo. Berta Fiszer-Szafarz.


205 Brief Communication:
Subcutaneous Sarcomas in Wistar Rats following Single 3-Methylcholanthrene Ingestion at Age 8-15 Days. M. Gruenstein, D. R. Meranze, and M. B. Shimkin.

207 Announcements

208 Book Reviews

COVER LEGEND

Wendell M. Stanley (b. 1904), University of California, Berkeley, is shown in a photograph taken at the time the paper describing the isolation of crystalline tobacco mosaic virus was published (Science, 81: 644-45, 1935). For this work, performed at The Rockefeller Institute, Princeton, New Jersey, he shared the Nobel Prize in Chemistry in 1946. His leadership has been important in the involvement of virology in cancer research.

The photographs of tobacco mosaic virus are from "Viral and Rickettsial Infections of Man," edited by T. M. Rivers and F. L. Horsfall, Jr., 3rd edition, Figure 13, page 27 (reproduced with permission of J. B. Lippincott Co., Philadelphia).