Contents

1463 Histidase Activity in Hyperplastic and Neoplastic Rat Epidermis and Liver.
Howard P. Baden, Sylvester Sviokla, Brant Mittler, and Madhu A. Pathak.

1469 Alteration of Tumor Cell and Hepatic Parenchymal Cell Mitotic Rates in Tumor-injected Partially Hepatectomized Mice.
Gordon L. Rosen, Jr.

1478 A Comparative in Vitro and in Vivo Study of Induced Cervical Lesions of Mice.
Hee-Yong Park and Irena Kopraveska.

1490 A Comparative Study of Childhood Rhabdomyosarcoma and Virus-induced Rhabdomyosarcoma in Mice.
Arnold M. Freeman and Warren W. Johnson.

1501 Streptozotocin: Depression of Mouse Liver Pyridine Nucleotides.
Philip S. Schein and Susan Lofts.

Darrell V. Lewis, Nancy Staley, Vailt Rogers, and Richard F. Edlich.

1513 Transformation in Cell Culture of Sex Hormones by Adenovirus-12-induced Tumor Cells and Normal Hamster Lung Fibroblasts.
O. J. Lucis, E. Sandra McFarlane, J. A. Embil, Jr., and R. Lucis.

1520 Effect of Chondroitin Sulfate on the Growth of Solid Ehrlich Ascites Tumor under the Influences of Other Interstitial Components.
Jun Takeuchi.

1524 The Investigation of Some Antigens of Zajdela Ascitic Rat Hepatoma Cells.

1531 Antitumor Effect of Intratumor Injection of Bacterial Lipopolysaccharide.
Den'ichi Mizuno, Osamu Yoshioka, Masako Akamatu, and Tomoko Kataoka.

1538 Immunchemical and Morphologic Comparison of Donor Tissues with Immunoglobulin-producing Tissue Culture Lines from Two Patients with Malignancies.
I. Finegold, Y. Hirshaut, and J. L. Fahey.

1550 Influence of Hormonal Treatment of Fischer Rats on the Biochemistry of a Transplantable Dimethylbenz(a)anthracene-induced Mammary Carcinoma and Its Sublines.
Russell Hilf, Albert Segaloff, and Leonard J. Lerner.

1559 Inhibition of Ribonucleoside Diphosphate Reductase by Hydroxurea.
Irwin H. Krakoff, Neal C. Brown, and Peter Reichard.

1566 Therapeutic Trials and Clinical Pharmacologic Studies of the New Terephthalanilide Derivative, 2-Amino-4',4''-bis(4-methyl-2-imidazolin-2-yl)-terephthalanilide (AMIT) (NSC 66761).

1573 Concerning the Incidence of "Spontaneous" Stomach Cancer in Praomys (Mastomys) natalensis.
M. H. Simmers, Kenneth H. Ibsen, and J. Edward Berk.

1577 Immunologic, Virologic, and Pathologic Studies of Regression of Autochthonous Moloney Sarcoma Virus-induced Tumors in Mice.
Alexander Fefer, James L. McCoy, Kalman Perk, and John P. Glynn.

1586 Effect of Low Molecular Weight Dextran on Hepatic Metastases in the Rabbit.

1590 Electrophoretic Mobility of Ehrlich Ascites Carcinoma Cells Grown in Vitro or in Vivo.
E. Mayhew.

1596 Oncogenic Action of Bovine Papilloma Virus in Hamsters.
Martin G. Robl and Carl Olson.

1605 Showdomycin, A New Nucleoside Antibiotic.

1611 Glycolysis in Chick Embryo Cell Cultures Transformed by Rous Sarcoma Virus.
Theodore L. Steck, Seymour Kaufman, and John P. Bader.

1620 A Systematic Investigation of the Presence of Growth inhibitory Substances in Animal Tissues.
Further Studies on the Erythrocytic Host Response in Moloney Murine Leukemia.
Sanford H. Vernick, Bolivar J. Lloyd, Jr., Kalman Perk, and Harvie Sims.

Transplantation of Human Cancers to Hamster Cheek Pouches.
W. Bradford Patterson.

Brief Communications:
6-Aminonicotinamide-14C Utilization by the 755 Tumor and Host Liver Tissue.

Growth Curves of Rauscher and Friend Murine Leukemia Viruses in JLS-V9 Tissue Culture.


Book Reviews.
Books Received.
Announcements.

Special Announcement: Availability of Reprints of Cover Photographs

COVER LEGEND

In 1933 James Wilfred Cook (b. 1900) and his associates at the Royal Cancer (now Royal Marsden) Hospital in London isolated 1:2-benzpyrene, later designated 3:4-benzpyrene (J. W. Cook, C. L. Hewett, and I. Hieber, The Isolation of a Cancer-producing Hydrocarbon from Coal Tar, Parts I, II, and III. J. Chem. Soc., Pt. 1: 395–405, 1933). Concentrates of the active substance were prepared from pitch, and each fraction showed characteristic spectroscopic lines at 4000, 4180, and 4400 Å. Two unknown benzpyrenes, among other end products, were obtained from a low melting-point fraction. These were shown to be 1:2-benzpyrene and 4:5-benzpyrene, the syntheses of which were accomplished by Hewett. Unlike 1:2-benzpyrene, 4:5-benzpyrene did not produce skin tumors in mice.


The photograph of Sir James Cook was obtained through the courtesy of Sir Alexander Haddow. A schematic of the 3:4-benzpyrene structure is shown in the accompanying illustration.

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