Contents

1359 Cancer in Man at Site of Prior Benign Lesion of Skin or Mucous Membrane: A Review.
Lucia J. Dunham.

1375 Antigenic Changes on the Surface of Lymphocytes from Patients with Chronic Lymphocytic Leukemia.
Zvi Bentwich, David W. Weiss, Dov Sulizeeanu, Eli Kedar, Gabriel Izaak, Isaac Cohen, and Ora Eyal.

1384 Tumor Inhibition, Persistence, and Binding of Actinomycin D in Mouse Skin.
A. Segal, T. Honohan, M. Schroeder, C. Katz, and B. L. Van Duuren.

1391 Transformation of Hamster Embryo Cells by Epoxides and Other Derivatives of Polycyclic Hydrocarbons.

1397 Effect of Tilorone Hydrochloride and Conjugates on Reticuloendothelial System, Tumors, and the Immune Response.

1404 Studies of Mammary Carcinoma Induced by 7,12-Dimethylbenz(a)anthracene Administration.
Tariq M. Murad and Emmerich von Haam.

1416 Uptake and Metabolism of 3H-Formyltetrahydrofolate by L1210 Leukemia Cells.
Aly Nahas, Peter F. Nixon, and Joseph R. Bertino.

1422 Drug-induced Differentiation of a Rat Glioma in Vitro.
Shirley W. Silbert and Milton N. Goldstein.

1428 Stress and Murine Sarcoma Virus (Moloney)-induced Tumors.
Alfred Amkraut and George F. Solomon.

1434 Characterization of a Transplantable, Canine, Immature Mast Cell Tumor.

1442 Lymphatic Leukemia and Pulmonary Tumors in Female Swiss Mice Fed Bracken Fern (Pteris aquilina).
A. M. Pamukcu, E. Ertürk, J. M. Price, and George T. Bryan.

1446 Antigenic Changes of L1210 Leukemia in Mice Treated with 5-(3,3-Dimethyl-1-triazeno)imidazole-4-carboxamide.

1451 Studies on the Mechanism of Glycogen Storage in Ascites Hepatomas.
Kiyomi Sato and Shigeru Tsuiki.

1455 Clinical and Pharmacological Studies with 5-Hydroxy-2-formylpyridine Thiosemicarbazone.

1463 Reticuloses and Epidermal Tumors in Hairless Mice after Topical Skin Applications of Cantharidin and Asiaticoside.
Ole Didrik Laerum and Olav Hilmar Iversen.

1470 Electrophoretic Analysis of the RNA from a Mouse Leukemia Virus.
Kenneth McClain and Werner H. Kirsten.

1476 The Effects of Cytosine Arabinoside upon Proliferating Epithelial Cells.
Robert S. Verbin, Gloria Diluiso, Hilda Liang, and Emmanuel Farber.

1489 Synchronization of Cell Division in Vivo through the Combined Use of Cytosine Arabinoside and Colcemid.
Robert S. Verbin, Gloria Diluiso, Hilda Liang, and Emmanuel Farber.

1496 Survival of Hematopoietic and Leukemic Colony-forming Cells in Vivo following the Administration of Daunorubicin or Adriamycin.
Aly Razek, Fred Valeriote, and Teresa Vietti.

1501 Ethylation of Nucleic Acids by Ethylnitrosourea-14C in the Fetal and Adult Rat.
R. Roth and M. F. Rajewsky.

1506 Purinergic Death as a Link between Growth Rate and Cytotoxicity by Methotrexate.
William M. Hryniuk.

1512 The Lethality of Some d-Arabinosyl Nucleotides to Mouse Fibroblasts.
Priscilla J. Ortiz, Marion J. Manduka, and Seymour S. Cohen.

1518 Increased Susceptibility of Cells from Cancer Patients with XY-Gonadal Dysgenesis to Simian Papovavirus 40 Transformation.
Debdas Mukerjee, James M. Bowen, Jose M. Trujillo, and Ann Cork.

1521 Alteration of the Specificity of Antitumor
Antisera by the Use of Passively Administered Antibody.
Peter C. Ungaro, Walter P. Drake, Donald H. Buchholz, and Michael R. Mardiney, Jr.

Early Appearance of Serum a-Fetoprotein during Hepatocarcinogenesis as a Function of Age of Rats and Extent of Treatment with 3'-Methyl-4-dimethylaminoazobenzene.
Robert Kroles, Gary M. Williams, and John H. Wetsburger.

Ether-Lipids, a-Glycerol Phosphate Dehydrogenase, and Growth Rate in Tumors and Cultured Cells.
Barbara V. Howard, H. P. Morris, and J. Martyn Bailey.

Two Different Species of Dihydrofolate Reductase in Mammalian Cells Differentially Resistant to a-2-Fluorenylacetamide.
Alberta M. Albrecht, June L. Biedler, and Dorris J. Hutchison.

Inhibition of RNA-dependent DNA Polymerase by Thymidylate Derivatives.
Anthony W. Schrecker, Michael B. Sporn, and Robert C. Gallo.

On the Correlation between the Hepatocarcinogenicity of the Carcinogen, a-2-Fluorenylacetamide, and Its Metabolic Activation by the Rat.

Early Effects of 12-O-Tetradecanoyl-phorbol-13-acetate on the Incorporation of Tritiated Precursor into DNA and the Thickness of the Interfollicular Epidermis, and Their Relation to Tumor Promotion in Mouse Skin.
Alberto N. Raick, Katarina Thumm, and B. Roy Chivers.

COVER LEGEND

This month our cover features the Institute of Experimental and Clinical Oncology of the Academy of Medical Sciences of the USSR, located at Kashirskoye Chausse in Moscow, M478. It was founded in 1951 and is the largest center in the USSR for laboratory and clinical research on cancer.

Nikolai Nikolaevich Blokhin (b. 1912 in Lukoyanov) has been Director of the Institute since its opening. He was graduated from Gorky State Medical Institute in 1934 and in the same year founded the Institute of Restorative Surgery, Orthopedics, and Traumatology where he was Director of General Surgery from 1950 to 1952. He was President of the Academy of Medical Sciences of the USSR (1960–1968) and President of the International Union Against Cancer (1966–1970). The author of over 50 works, Dr. Blokhin has contributed to the literature on cancer control, plastic surgery, and chemotherapy of cancer.

Leon Manusovich Shabad (b. 1902 in Minsk) is a pathologist who is Chief of the Department of Carcinogenic Agents at the Institute. He graduated from the Leningrad Medical Institute in 1924, and in 1925 began working in the field of experimental oncology. Shabad is a member of the Academy of Medical Sciences of the USSR. He is world renowned for his work on environmental carcinogenesis, for which he was awarded a prize by the United Nations in 1962. His numerous publications include books on pathology and oncology. He continues to be a frequent contributor to the cancer literature in English as well as in the Russian language (e.g., J. Natl. Cancer Inst., 47: 987–1005, 1971; Cancer Res., 32: 617–627, 1972).

Professors Blokhin (left) and Shabad (right) are corresponding members of the American Association for Cancer Research.