



Cancer Research

The Official Organ of the American Association for Cancer Research, Inc.

Contents

Volume 32 / Number 7 / July 1972

- 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 Sulitzeanu, Eli Kedar, Gabriel Izak, 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.
Eliezer Huberman, Toshio Kuroki, Hans Marquardt, James K. Selkirk, Charles Heidelberger, Philip L. Grover, and Peter Sims.
- 1397** Effect of Tilorone Hydrochloride and Congeners on Reticuloendothelial System, Tumors, and the Immune Response.
Albert E. Munson, Judith A. Munson, William Regelson, and Galen L. Wampler.
- 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 N^5 -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.
C. A. Bowles, W. T. Kerber, S. R. S. Rangan, R. Kwapien, W. Woods, and E. M. Jensen.
- 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.
Enzo Bonmassar, Anna Bonmassar, Srikrishna Vadlamudi, and Abraham Goldin.
- 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.
Ronald C. DeConti, Bartlett R. Toftness, Krishna C. Agrawal, R. Tomchick, J. A. R. Mead, Joseph R. Bertino, Alan C. Sartorelli, and William A. Creasey.
- 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 Diluio, 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 Diluio, 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- $1\text{-}^{14}\text{C}$ in the Fetal and Adult Rat.
R. Goth and M. F. Rajewsky.
- 1506** Purineless 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.
- 1526** Early Appearance of Serum α -Fetoprotein during Hepatocarcinogenesis as a Function of Age of Rats and Extent of Treatment with 3'-Methyl-4-dimethylaminoazobenzene.
Robert Kroes, Gary M. Williams, and John H. Weisburger.
- 1533** Ether-Lipids, α -Glycerol Phosphate Dehydrogenase, and Growth Rate in Tumors and Cultured Cells.
Barbara V. Howard, H. P. Morris, and J. Martyn Bailey.
- 1539** Two Different Species of Dihydrofolate Reductase in Mammalian Cells Differentially Resistant to Amethopterin and Methasquin.
Alberta M. Albrecht, June L. Biedler, and Dorris J. Hutchison.
- 1547** Inhibition of RNA-dependent DNA Polymerase by Thymidylate Derivatives.
Anthony W. Schrecker, Michael B. Sporn, and Robert C. Gallo.
- 1554** On the Correlation between the Hepatocarcinogenicity of the Carcinogen, *N*-2-Fluorenylacetamide, and Its Metabolic Activation by the Rat.
H. R. Gutmann, D. Malejka-Giganti, E. J. Barry, and R. E. Rydell.
- 1562** 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.
- 1569** Selective Thymus-derived Cell Enrichment in the Rat Spleen as a Result of Immunodepression by Urethan.
A. Tano Di Marco, C. Franceschi, and G. Prodi.
- 1574** The Effect of Varying the Length of the Nursing Period on the Postpartum Growth of Chemically Induced Rat Mammary Tumors.
George M. McCormick, II.
- 1577** A Study of Multinucleated Tumor Cells Demonstrating the Effect of Transplant Duration on Serum Changes in Cancer-bearing Hamsters.
Dorothy M. Gillespie and Dean F. Stevens.
- 1580** Effects of Infant Thymectomy and Antilymphocyte Serum on Xenotransplantation of a Human Leukemia in the Hamster.
Linda Poole Merk and Richard A. Adams.
- 1584** Use of *Bacillus Calmette-Guérin* as Adjuvant in Human Cell Vaccines.
Joseph E. Sokal, C. William Aungst, and Tin Han.
- 1590** Sex Differences in Cell Proliferation and *N*-Hydroxy-2-acetylaminofluorene Sulfotransferase Levels in Rat Liver during 2-Acetylaminofluorene Administration.
Carlton D. Jackson and Charles C. Irving.
- 1595** Brief Communications:
1595 Type C Viruses in the Pancreas of Normal C57BL Mice.
Gabriella Della Torre and Giuseppe Della Porta.
- 1598** Mutagenicity of *N*-Nitrosopiperazines for *Salmonella typhimurium* in the Host-mediated Assay.
Errol Zeiger, Marvin S. Legator, and William Lijinsky.
- 1600** Announcements.
1602 Erratum.
1603 Instructions to Authors.

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 was 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.

Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

32 (7)

Cancer Res 1972;32:1359-1602.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/32/7.citation>

E-mail alerts [Sign up to receive free email-alerts](#) related to this article or journal.

Reprints and Subscriptions To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions To request permission to re-use all or part of this article, use this link <http://cancerres.aacrjournals.org/content/32/7.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.