



CONTENTS

Asterisks * preceding page numbers refer to clinical studies.

- 1843 Heat Fractionation and Thermotolerance: A Review.** Kurt J. Henle and Lyle A. Dethlefsen.
- 1852 Effects of Acetylaminofluorene on Transfer RNA Methyltransferases of Rat Organs.** E. Wainfan, S. S. Randle, N. M. Relyea, and M. E. Balis.
- 1857 T-Lymphocytes and Macrophages in Primary Murine Fibrosarcomas at Different Stages in Their Progression.** Gary W. Wood and Katherine A. Gollahon.
- 1866 Unscheduled DNA Synthesis Induced by Procarcinogens in Suspensions and Primary Cultures of Hepatocytes on Collagen Membranes.** George Michalopoulos, Gerald L. Sattler, Lydia O'Connor, and Henry C. Pitot.
- 1872 Effects of Culture Conditions on the Growth and Differentiation of Transformed Rat Adrenocortical Cells.** Nelly Auersperg.
- 1885 Comparison of Thioredoxin Reductases from Novikoff Ascites Hepatoma Cells and Normal Liver of Rats.** Chin-Chun Chen, E. Colleen Moore, and Barbara L. Borns McCall.
- 1889 Radioimmunoassay for the Detection and Quantitation of 5-Fluorodeoxyuridine.** Ronnye Schreiber and Vic Raso.
- 1893 A Comparison of Acridine Orange and Feulgen Cytochemistry of Human Tumor Cell Nuclei.** James E. Gill, Leon L. Wheelless, Jr., Carol Hanna-Madden, Richard J. Marisa, and Paul K. Horan.
- 1899 Induction of Colonic Adenocarcinoma in the Rat by X-Irradiation.** David L. Denman, Frederick R. Kirchner, and James W. Osborne.
- 1906 Differences in Nucleolar Antigens of Rat Liver and Novikoff Hepatoma Ascites Cells.** Frances M. Davis, Rose K. Busch, Lynn C. Yeoman, and Harris Busch.
- 1916 Deoxyadenosine Antagonism of the Antiviral Activity of 9- β -D-Arabinofuranosyladenine and 9- β -D-Arabinofuranosylhypoxanthine.** Sandra H. Smith, Charles Shipman, Jr., and John C. Drach.
- 1922 Isolation and Characterization of a Cytosol Protein (64/7.2) Present in Large Amounts in Rapidly Growing Hepatomas.** Katari S. Raju, Ann Cartwright, Friedrich W. Hirsch, Benjamin C. Wu, Katrina N. Nall, Harold P. Morris, and Harris Busch.
- 1929 Interactions between Polonium-210 α -Radiation, Benzo(a)pyrene, and 0.9% NaCl Solution Instillations in the Induction of Experimental Lung Cancer.** John B. Little, Robert B. McGandy, and Ann R. Kennedy.
- 1936 Immobilized Carboxypeptidase G₁ in Methotrexate Removal.** Joseph R. Bertino, Spiros Condos, Csaba Horvath, Krishna Kalghatgi, and Henrik Pedersen.
- 1942 Multisystem Stem Cell Failure after Apparent Recovery from Alkylating Agents.** Leslie E. Botnick, Eileen C. Hannon, and Samuel Hellman.
- 1948 Uncharged Nuclear Receptors for Estrogen in Breast Cancers.** Walter B. Panko and Robert M. MacLeod.
- 1952 Differences in the Intracellular Concentration of Elements in Normal and Cancerous Liver Cells as Determined by X-ray Microanalysis.** Nancy R. Smith, Rodney L. Sparks, Thomas B. Pool, and Ivan L. Cameron.
- 1960 A Light and Electron Microscope Study of Osmotically Induced Tumor Necrosis.** Robert H. Orvoine, Paul E. Messier, Marc Cantin, and Jeffrey M. Seidman.
- 1967 Metabolic Activation of Dibenzo[a,h]anthracene and Its Dihydrodiols to Bacterial Mutagens.** Alexander W. Wood, Wayne Levin, Paul E. Thomas, Dene Ryan, Jean M. Karle, Haruhiko Yagi, Donald M. Jerina, and Allan H. Conney.
- 1974 Histological Conformity of Implantation Tumors Produced by Kidney Cell Lines Derived from Dimethylnitrosamine-treated Rats with Dimethylnitrosamine-induced Renal Mesenchymal Tumors.** Gordon C. Hard.
- 1979 Aryl Hydrocarbon Hydroxylase Activity in Subpopulations of Peripheral Blood Mononuclear Cells.** James R. Jett, John D. Stobo, Harold L. Moses.
- 1983 Isolation of a Bone-resorptive Factor from Human Cancer Ascites Fluid.** Richard B. Nimberg, Donald E. Humphries, Weldon S. Lloyd, Alison M. Badger, Sidney R. Cooperband, Herbert Wells, and Karl Schmid.
- 1990 Radioimmunoassays That Demonstrate Type-specific and Group-specific Antigenic Reactivities for the Major Internal Structural Protein of Murine Mammary Tumor Viruses.** Yoshio A. Teramoto and Jeffrey Schlom.

- 1996 **Soluble Suppressor Factor from the Spleens of Tumor-bearing Mice.** Chitra Subramanian, Samuel Yu, and Charles F. McKhann.
- 2003 **Morphology and Metastatic Nature of Induced Hepatic Nodular Lesions in C57BL × C3H F₁ Mice.** S. D. Vesselinovich, N. Mihailovich, and K. V. N. Rao.
- 2011 **Removal of Methylated Purines from Rat Liver DNA after Administration of Dimethylnitrosamine.** Anthony E. Pegg and Georgiana Hui.
- 2018 **Mechanisms of Inhibition by Ascorbate of Microbial Mutagenesis Induced by *N*-Nitroso Compounds.** Joseph B. Guttenplan.
- *2023 **Evaluation of the Microleukocyte Adherence Inhibition Assay as an Immunodiagnostic Test for Pancreatic Cancer.** Anthony J. Russo, Harold O. Douglass, Jr., Stephen H. Leveson, John H. Howell, Edward D. Holyoke, Shashi R. Harvey, Tsann M. Chu, and Martin G. Goldrosen.
- 2030 ***In Vitro* Development of Oncogenicity in Cell Lines Established from Tracheal Epithelium Preexposed *In Vivo* to 7,12-Dimethylbenz(*a*)anthracene.** Ann C. Marchok, Joyce C. Rhoton, and Paul Nettesheim.
- 2038 **Comparison of the Oncogenicities of Four Structurally Isomeric *N*-Hydroxyxanthines.** Morris N. Teller, John M. Budinger, Gury Zvilichovsky, Angus A. Watson, Jerome J. McDonald, Gerhard Stöhrer, and George Bosworth Brown.
- 2043 **Increased Activity of Rat Liver Messenger RNA and of Albumin Messenger RNA Modulated by Thioacetamide.** Pran K. Chakrabarty and Walter C. Schneider.
- 2048 **Effect of Cholecystoduodenostomy and Choledochostomy in Pancreatic Carcinogenesis.** Parvis Pour and Thorakia Donnelly.
- 2052 **Enhanced Response to Chemoimmunotherapy and Immunoprophylaxis with the Use of Tumor-associated Antigens with a Lipophilic Agent.** Morton D. Prager and William C. Gordon.
- 2058 **Mechanism of *In Vitro* Mutagenic Activation and Covalent Binding of *N*-Hydroxy-2-acetylaminofluorene in Isolated Liver Cell Nuclei from Rat and Mouse.** Saeko Sakai, Charles E. Reinhold, Peter J. Wirth, and Snorri S. Thorgeirsson.
- *2068 **Cellular Immunity to Autologous Breast Cancer and RIII-Murine Mammary Tumor Virus Preparations.** Maurice M. Black, Reinhard E. Zachrau, Bella Shore, Arnold S. Dion, and Henry P. Leis, Jr.
- 2077 **Effect of Estradiol and Prolactin on Galactosyltransferase and α -Lactalbumin Activities in Rat Mammary Gland and Mammary Tumor.** Clement Ip and Thomas L. Dao.
- 2084 **Growth Characteristics and Drug Responses of a Murine Lung Carcinoma *In Vitro* and *In Vivo*.** Takeo Kaneko and G. A. LePage.
- 2091 **Chemical Induction of Unscheduled DNA Synthesis in Human Skin Epithelial Cell Cultures.** Robert S. Lake, Melvin L. Kropko, Mary Rose Pezzutti, Robert H. Shoemaker, and Howard J. Igel.
- 2099 **A Comparison of Polysomal Messenger Ribonucleoprotein Particles from Normal and Neoplastic Rat Liver.** James A. Cardelli and Henry C. Pitot.
- 2103 **Detection of Inapparent Nodule-transformed Cells in the Mammary Gland Tissues of Virgin Female BALB/cfC3H Mice.** K. B. DeOme, Marilyn J. Miyamoto, Rebecca C. Osborn, Raphael C. Guzman, and Kenneth Lum.
- 2112 **Effects of Hydroxyurea on Murine Type C Virus-specific DNA Synthesis in Newly Infected Cells.** Gerald G. Lovinger, Raymond V. Gilden, and Masakazu Hatanaka.
- 2118 **Repair of DNA Damage Induced by Benzo(*a*)pyrene Diol-Epoxides I and II in Human Alveolar Tumor Cells.** Peter A. Cerutti, Freida Sessions, Palghat V. Hariharan, and Andrea Lusby.
- 2125 **Carcinogenic and Other Adverse Effects of Procarbazine in Nonhuman Primates.** S. M. Sieber, P. Correa, D. W. Dalgard, and R. H. Adamson.
- 2135 ***De Novo* and Repair Replication of DNA in Liver of Carcinogen-treated Animals.** V. M. Craddock and A. R. Henderson.
- 2144 **Tumorigenic Action of Streptozotocin on the Pancreas and Kidney in Male Wistar Rats.** Tsutomu Kazumi, Gen Yoshino, Shigeki Fujii, and Shigeaki Baba.
- 2148 **Mutagenicity of Several Classes of Antitumor Agents to *Salmonella typhimurium* TA98, TA100, and TA92.** Yuko Seino, Minako Nagao, Takie Yahagi, Akio Hoshi, Takashi Kawachi, and Takashi Sugimura.
- 2157 **Autologous Bone Marrow Grafts in Dogs Treated with Lethal Doses of 1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea.** Jochen Abb, Bruno Netzel, Hans V. Rodt, and Stefan Thierfelder.
- 2160 **Suppression by *Nocardia rubra* Cell Wall Skeleton of Mammary DNA Synthesis, Plasma Prolactin Level, and Spontaneous Mammary Tumorigenesis in Mice.** Hiroshi Nagasawa, Reiko Yanai, and Ichiro Azuma.
- 2163 **Purification and Properties of Acid Ribonucleases in Human Serum and Leukocytes.** Kimihiro Akagi, Masayoshi Yamanaka, Koichiro Murai, and Teruo Omae.
- *2168 **Serum Acid Ribonuclease in Myelogenous Leukemia.** Kimihiro Akagi, Masayoshi Yamanaka, Koichiro Murai, Yoshiyuki Niho, and Teruo Omae.
- *2174 **Estrone to Estradiol Conversion by Blood Mononuclear Cells in Normal Subjects and in Patients with Mammary and Nonmammary Carcinomas.** A. Borkowski, M. Dosogne, P. Declercq, C. Muquardt, and D. Machin.

- 2180 Carcinostatic Effect of Aliphatic Aldehydes and Aldehyde Dehydrogenase Activity in Ehrlich Carcinoma, Sarcoma 180, and Yoshida AH 130 Hepatoma.** Antonio Perin, Angela Sessa, and Enrico Ciaranfi.
- 2185 Influence of Dietary Protein and Vitamin B₁₂ on the Toxicity and Carcinogenicity of Aflatoxins in Rat Liver.** Punya Temcharoen, Tongtavuch Anukarahanonta, and Natth Bhamarapavati.
- 2191 Communication: 1,2-Dihydro-1,2-dihydroxy-5-methylchrysene, a Major Activated Metabolite of the Environmental Carcinogen 5-Methylchrysene.** Stephen S. Hecht, Edmond LaVoie, Robert Mazzaresse, Shantilal Amin, Victoria Bedenko, and Dietrich Hoffmann.
- 2195 Announcement from the Editor**
- 2196 Announcements**
- 2196 Erratum**
- 2197 Author Index**

Cancer Research

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

38 (7)

Cancer Res 1978;38:1843-2196.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/38/7.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/38/7.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.