



CONTENTS

Asterisks * preceding page numbers refer to clinical studies.

- *4865** **The Elusive Goal: Presidential Address.** Bayard D. Clarkson.
- 4885** **Possible Requirement of Internalization in the Mechanism of *in Vitro* Cytotoxicity in Tumor Necrosis Serum.** Frederick C. Kull, Jr. and Pedro Cuatrecasas.
- 4891** **Selective Activation of 5'-Deoxy-5-fluorouridine by Tumor Cells as a Basis for an Improved Therapeutic Index.** R. Douglas Armstrong and Robert B. Diasio.
- 4895** **Simultaneous Analysis of DNA and Cell Surface Immunoglobulin in Human B-Cell Lymphomas by Flow Cytometry.** Howard S. Kruth, Raul C. Braylan, Neal A. Benson, and Virginia A. Nourse.
- 4900** **Selective Toxicity of 5-(3,3-Dimethyl-1-triazeno)imidazole-4-carboxamide toward Hypoxic Mammalian Cells.** A. M. Rauth and J. K. Mohindra.
- 4906** **Role of Colostrum and Milk in the Natural Transmission of the Bovine Leukemia Virus.** Jorge F. Ferrer and Charles E. Piper.
- 4910** **Fatty Acid Metabolism in Phorbol Ester-differentiating Human Leukemia Cells.** Myles C. Cabot and Clement J. Welsh.
- 4916** **Spectral Dependencies of Killing, Mutation, and Transformation in Mammalian Cells and Their Relevance to Hazards Caused by Solar Ultraviolet Radiation.** F. Suzuki, A. Han, G. R. Lankas, H. Utsumi, and M. M. Elkind.
- 4925** ***In Vitro* Metabolism of Acrylonitrile to 2-Cyanoethylene Oxide, Reaction with Glutathione, and Irreversible Binding to Proteins and Nucleic Acids.** F. Peter Guengerich, Lee E. Geiger, Lora L. Hogy, and Paul L. Wright.
- 4934** **Differential Expression of Murine Leukemia Antigen on L1210 Parental and Drug-resistant Sublines.** Leon Strzadala, Adam Opolski, Czeslaw Radzikowski, and Enrico Mihich.
- 4938** **Effect of Inhibitors of Tumorigenesis on the Formation of O⁶-Methylguanine in the Colon of 1,2-Dimethylhydrazine-treated Rats.** Arthur W. Bull, Adrian D. Burd, and Norman D. Nigro.
- 4942** **Relationship of Rat Urinary Metabolites of *N*-Nitrosomethyl-*N*-alkylamine to Bladder Carcinogenesis.** George M. Singer, William Lijinsky, Leonard Buettner, and Gary A. McClusky.
- 4947** **Glucocorticoid-stimulated Increase in Chemotactic Peptide Receptors on Differentiating Human Myeloid Leukemia (HL-60) Cells.** Stephen J. Brandt, Katherine C. Barnes, David B. Glass, and Joseph M. Kinkade, Jr.
- 4952** **Effect of Inhibitors of the *de Novo* Pyrimidine Biosynthetic Pathway on Serum Uridine Levels in Mice.** Jean M. Karle, Lawrence W. Anderson, Daniel D. Dietrick, and Richard L. Cysyk.
- 4956** **Relationship between Biological Responsiveness to Phorbol Esters and Receptor Levels in GH₄C₁ Rat Pituitary Cells.** Susan Jaken, Armen H. Tashjian, Jr., and Peter M. Blumberg.
- 4961** **Prostaglandin Hydroperoxidase-mediated 2-Amino-4-(5-nitro-2-furyl)[¹⁴C]thiazole Metabolism and Nucleic Acid Binding.** Michael B. Mattammal, Terry V. Zenser, and Bernard B. Davis.
- 4967** **Correlation of Surface Fucopeptide Patterns with Tumorigenicity of Mouse Mammary Epithelial Cells.** Carolyn S. Richards, Daniel Medina, Janet S. Butel, and Marion R. Steiner.
- 4973** **Simultaneous Examination of Sister Chromatid Exchanges and Cell Replication Kinetics in Tumor and Normal Cells *in Vivo*.** Edward L. Schneider, Yoshifumi Nakanishi, Janet Lewis, and Hal Sternberg.
- 4976** **Effect of Tumors on the Concentration of Leucogenol in the Serum of Mice.** F. A. H. Rice, Christian Oresajo, J. R. Heath, E. J. Breyere, and J. D. McCurdy.
- 4981** **Effect of 7-*con-O*-Methylnogarol on DNA Synthesis, Survival, and Cell Cycle Progression of Chinese Hamster Ovary Cells.** Earl G. Adams, Sheri L. Crampton, and Bijoy K. Bhuyan.
- 4988** **Effects of Cyanate on the Distribution of Isotope-labeled H₂O and Extracellular Markers in Rat Liver and Tumors.** Michael A. Lea and Janey Parsons.
- 4993** **Effects of Pulse and Continuous Intravenous Infusion of *cis*-Diamminedichloroplatinum on L1210 Leukemia *in Vivo*.** Ruth E. Moran and Marc J. Straus.
- 4997** **Dose Response Studies of Carcinogenesis in Rats by Nitrosodiethylamine.** W. Lijinsky, M. D. Reuber, and C. W. Riggs.

- 5004** Effects of 17β -Estradiol on Progesterone Receptors and the Uptake of Thymidine in Human Breast Cancer Cell Line CAMA-1. Winston C. Y. Yu, Benjamin S. Leung, and Y. L. Gao.
- 5010** Ability of Nonviable *Staphylococcus aureus* Cowan I to Bind Ionized Calcium *in Vitro* and *ex Vivo* in an Extracorporeal Perfusion System. Prasanta K. Ray, Syamal Raychaudhuri, Denise McLaughlin, Alexander Idiculla, Jonathan E. Rhoads, Jr., and James G. Bassett.
- 5015** Effect of 3,5,3'-Triiodo-L-thyronine on the Incidence and Growth Kinetics of Spontaneous Mammary Tumors in C3H/HeN Mice. Donald F. Sellitti, Yueh-Chu L. Tseng, and Keith R. Latham.
- 5020** Photodynamic Effect of Hematoporphyrin Derivative as a Function of Optical Spectrum and Incident Energy Density. J. H. Kinsey, D. A. Cortese, H. L. Moses, R. J. Ryan, and E. L. Branum.
- 5027** Lung Cancer Model System Using 3-Methylcholanthrene in Inbred Strains of Mice. C. J. Henry, L. H. Billups, M. D. Avery, T. H. Rude, D. R. Dansie, A. Lopez, B. Sass, C. E. Whitmire, and R. E. Kouri.
- 5033** Repair of Psoralen-treated DNA by Genetic Recombination in Human Cells Infected with Herpes Simplex Virus. Jennifer D. Hall and Karen Scherer.
- 5039** Metabolic α -Hydroxylation of *N*-Nitrosomorpholine and 3,3,5,5-Tetradeutero-*N*-nitrosomorpholine in the F344 Rat. Stephen S. Hecht and Ruth Young.
- 5044** Influence of Various Hexoses and Vasoactive Agents on Osmotically Induced Oncolysis. Robert H. Orvoine.
- 5049** Different Responsiveness of Colony-forming Cells from Normal Subjects and Chronic Myeloid Leukemia Patients to 12-*O*-Tetradecanoylphorbol-13-acetate. Luigi Pegoraro, Gianpaolo Bagnara, Laura Bonsi, Graziella Biagini, Giovanni Garbarino, and Giovanni Luca Pagliardi.
- 5052** Aroclor 1254-induced Intestinal Metaplasia and Adenocarcinoma in the Glandular Stomach of F344 Rats. Robin W. Morgan, Jerrold M. Ward, and Philip E. Hartman.
- 5060** Angiogenesis and Prediction of Sarcoma Formation by Plastic. Marina Ziche and Pietro M. Gullino.
- 5064** Separation and Characterization of the Neoplastic and Stromal Elements of the R3230AC Mammary Adenocarcinoma. D. F. Daugherty, T. P. Pretlow, L. M. Peacock, A. M. Pitts, C. E. Mitchell, and T. G. Pretlow II.
- 5070** Adaptation versus Selection as the Mechanism Responsible for the Relapse of Prostatic Cancer to Androgen Ablation Therapy as Studied in the Dunning R-3327-H Adenocarcinoma. John T. Isaacs and Donald S. Coffey.
- 5076** Basement Membrane Changes in Breast Cancer Detected by Immunohistochemical Staining for Laminin. Reidar Albrechtsen, Maja Nielsen, Ulla Wewer, Eva Engvall, and Erkki Ruoslahti.
- 5082** Distribution of Fibronectin on Clonal Cell Lines of a Rat Mammary Adenocarcinoma Growing *in Vitro* and *in Vivo* at Primary and Metastatic Sites. Anthony Neri, Erkki Ruoslahti, and Garth L. Nicolson.
- 5096** Neoplastic Transformation of Human Epithelial Cells *in Vitro* after Exposure to Chemical Carcinogens. George E. Milo, Inge Noyes, John Donahoe, and Steven Weisbrode.
- 5103** Inhibition of Bleomycin-induced DNA Breakage by Superoxide Dismutase. Louis Galvan, Cheng-Hsiung Huang, Archie W. Prestayko, John T. Stout, John E. Evans, and Stanley T. Crooke.
- 5107** Divalent Cation-independent Aggregation of Rat-1 Fibroblasts Infected with a Temperature-sensitive Mutant of Rous Sarcoma Virus. Thomas C. Wright, Charles B. Underhill, Bryan P. Toole, and Morris J. Karnovsky.
- 5114** Kinetics of O^6 -Methylguanine Repair in Human Normal and Ataxia Telangiectasia Cell Lines and Correlation of Repair Capacity with Cellular Sensitivity to Methylating Agents. Yosef Shiloh and Yechiel Becker.
- *5121** Frequency of 1,25-Dihydroxyvitamin D_3 Receptor in Human Breast Cancer. John A. Eisman, Larry J. Suva, Elizabeth Sher, Paul T. Pearce, John W. Funder, and T. John Martin.
- 5125** Excision Repair of Aflatoxin B_1 -DNA Adducts in Human Fibroblasts. Steven A. Leadon, Rex M. Tyrrell, and Peter A. Cerutti.
- 5130** Increased Activity of a Neutral Protease in Cytosol from Rat Hepatoma Induced by *N*-2-Fluorenylacetamide. Kenji Wada, Hidenori Matsui, and Kinji Tsukada.
- 5134** Natural Killer Cell Activity and Tumor Susceptibility in Female Mice Treated Neonatally with Diethylstilbestrol. Terje Kalland and John-Gunnar Forsberg.
- 5141** G_1 -Phase Arrest of Cultured Human Leukemic T-Cells Induced by Deoxyadenosine. Richard M. Fox, Richard F. Kefford, Edith H. Tripp, and Ian W. Taylor.
- 5151** Effect of Antineoplastic Agents on the Induction of Suppressor Macrophages by Concanavalin A-bound Tumor Vaccine. Tateshi Kataoka, Fujiko Oh-Hashi, Yoshio Sakurai, and Kazue Ogihara.
- 5158** Effects of α -Difluoromethylornithine Alone and Combined with Adriamycin or Vindesine on L1210 Leukemia in Mice, EMT6 Solid Tumors in Mice, and Solid Tumors Induced by Injection of Hepatoma Tissue Culture Cells in Rats. Jacques Bartholeyns and Jan Koch-Weser.
- 5162** Invasiveness of Hyperplastic Nodule Cells from Diethylnitrosamine-treated Rat Liver. Jean-Claude Wanson, Leo de Ridder, and Roger Mosselmans.
- 5176** Correlations of DNA Damage and Repair with Nuclear and Chromosomal Damage in HeLa Cells Caused by Methylnitrosamides. Andrew R. S. Collins, Muriel J. Ord, and Robert T. Johnson.

- 5188 Effect of Heat Shock on Protein Synthesis by Normal and Malignant Human Lung Cells in Tissue Culture.** Hohko Tsukeda, Hideaki Maekawa, Susumu Izumi, and Kazuo Nitta.
- 5193 Communication: Promotion of Carcinomas by Repeated Abrasion in Initiated Skin of Mice.** Thomas S. Argyris and Thomas J. Slaga.

5196 Announcements

5197 Acknowledgment to Reviewers

5204 Author Index

See December Part 2 for Volume 41 Author and Subject Indices, and Contents.

Cancer Research

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

41 (12 Part 1)

Cancer Res 1981;41:4865-5203.

Updated version Access the most recent version of this article at:
http://cancerres.aacrjournals.org/content/41/12_Part_1.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/41/12_Part_1.citation. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.