Contents

897 Comparative Carcinogenicity in the Rat of 2-Hydrazinothiazoles with Nitrofuryl, Nitrophenyl, or Aminophenyl Substituents in the 4-Position.

902 Assay of Fractions of Bracken Fern (Pteris aquilina) for Carcinogenic Activity.
A. M. Pamukcu, J. M. Price, and George T. Bryan.

906 Carcinogenicity of Formic Acid 2-[4-(5-Nitro-2-furyl)-2-thiazolyl]hydrazone in Swiss Mice.
S. M. Cohen, E. Erturk, and George T. Bryan.

913 Influence of Altitude on Late Effects of Radiation in RF/Un Mice: Observations on Survival Time, Blood Changes, Body Weight, and Incidence of Neoplasms.

929 Evaluation of L-Asparagine Metabolism in Animals and Man.

936 Carcinogenicity of N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide in Female Rats.
E. Erturk, S. M. Cohen, and George T. Bryan.

942 A Probable Role for Protein Synthesis in Intestinal Epithelial Cell Damage Induced in Vivo by Cytosine Arabinoside, Nitrogen Mustard, or X-irradiation.

952 Further Studies on the Effects of Various in Vivo and in Vitro Factors on the Priming and Template Activities of DNA Isolates in the DNA and RNA Polymerase Systems.
Z. F. Chmielewicz, J. L. Ambrus, and T. J. Bardos.

960 Studies on the Enzymology of the Rhabdomyosarcoma Induced by the Murine Sarcoma Virus (Moloney).
P. S. Ebert, M. A. Chirigos, and S. P. Chan.

966 Interference of Daunomycin with Metabolic Events of the Cell Cycle in Synchronized Cultures of Rat Fibroblasts.
R. Silvestrini, A. Di Marco, and T. Dasdia.

974 The Role of the Dermis in the Induction of Neoplasia by Shope Papilloma Virus.
Charles Breedis and John W. Kreider.

980 Stimulation of DNA Synthesis of Rat Salivary Gland Cells in Monolayer Cultures by Isoproterenol.
John W. Kreider.

984 Comparative Biological Activity of Nogalamycin and Its Analogs.
B. K. Bhuyan and F. Reusser.

990 Nucleolar Morphology in Normal Diploid, Neoplastic, and Aneuploid Cells in Vitro.
Robert Love and Richard J. Walsh.

998 Lactate Dehydrogenase Isoenzymes in Tissues of Normal and Ehrlich-Liste Ascites Tumor-bearing Swiss Mice.
James A. Fountain, Mary Ellen Parks, Arlene Dickey, and Ralph W. McKee.

1003 Virus-induced Hemolytic Anemia in Mice.
Robert L. Wollmann, Emily J. Pang, Audrey E. Evans, and Werner H. Kirsten.

1011 Electron Microscopic Study of Methylcholanthrene-induced Epidermal Carcinogenesis in Mice: Mitochondrial Dense Bodies and Intracisternal A-Particles.
Tsuyashi Kakefuda, Eugene Roberts, and Valentina Suntzeff.

1020 Binding of 7,12-Dimethylbenz(a)anthracene and Benzo(a)pyrene to Nucleic Acids and Proteins of Organs in Rats.
Giorgio Prodi, Paola Rocchi, and Sandro Grilli.

1024 Increased Incidence of Mammary Tumors in the Female Rat Grafted with Multiple Pituitaries.
C. W. Welsch, T. W. Jenkins, and J. Meites.

1030 Tumor Incidence and Cellularity in Lungs of Mice Given Various Dose Schedules of Urethan.
Margaret R. White, Alexander Grendon, and Hardin B. Jones.

1037 Investigation of Fatty Acids and Derivatives for Carcinogenic Activity.
D. Swern, R. Wieder, M. McDonough, D. R. Meranze, and M. B. Shimkin.

1047 Antitumor Effect of 1-B-D-Arabino-furanosylcytosine S'-Adamantanoate (NSC 117614) in L1210 Leukemic Mice.

1055 Carcinogen-induced Mammary Tumors from Preneoplastic Nodule Outgrowths in BALB/c Mice.
D. Medina and K. B. DeOme.
1060 Rates of Turnover of Deoxythymidine Kinase and of Its Template RNA in Novikoff Hepatoma and Neonatal Liver.
Edward Bresnick and S. S. Burleson.

1064 Effects of L-Asparagine Deprivation on the Cell Cycle of the Jensen Sarcoma.
M. K. Patterson, Jr., and Merle D. Maxwell.

1068 The Role of Trace Metals in Chemical Carcinogenesis: Asbestos Cancers.

1075 Effects of Exogenous Histones upon the Induction of Tryptophan Pyrroline and Tyrosine Transaminase in Liver and Morris Hepatomas.

1081 Asparagine Biosynthesis in Human KB Tumor Cells: Inhibitor Studies with Asparagine and Glutamine Antagonists.
Charles M. Haskell and George P. Canellos.

1084 Detection of a Reactive Intermediate in the Reaction between DNA and Hydroxyurea.
Sheila J. Jacobs and Herbert S. Rosenkranz.

1095 Retention of Metabolic Regulation in the Hyperplastic Hepatic Nodule Induced by N-2-Fluorenylacatamide.
G. W. Teebor and I. Seidman.

1102 Ultrastructural and Quantitative Studies of Mammary Tumor Virus Production in Cultured Mouse Mammary Tumor Cells.
Bernhard Kramarsky, Etienne Y. Lasfargues, and Dan H. Moore.

1109 Stimulation of Mammary Tumor Virus Production in a Mouse Mammary Tumor Cell Line.

1118 Combination Therapy of Animal Tumors with L-Asparaginase and Antagonists of Glutamine or Glutamic Acid.
George S. Tarnowski, Isabel M. Moutain, and C. Chester Stock.

1123 High-Resolution Autoradiographic Localization of 3,4-Benzpyrene-5H in Mouse Skin.
Leslie H. Sobin.

1129 Effects of Cortisol on DNA Metabolism in the Sensitive and Resistant Lines of Mouse Lymphoma P1798.

1137 Relationship between Liver Aminotransferase Activity and Adrenal Cortical Hormone Metabolism in Tumor-bearing Rats.
Shoji Suga, Hidetoshi Mekata, Takahiko Mizuno, and Yoshiaki Kato.

1142 Morphology of Virus-like Particles Persisting in Murine Ependymoblastoma in Vitro.

1149 Comparative Studies on the Ultrastructure of Nucleoli in Human Lymphosarcoma Cells and Leukemic Lymphocytes.
Karel Smetana, Ferenc Gyorkey, Phyllis Gyorkey, and Harris Busch.

1156 Immunology of Spontaneous Mammary Carcinomas in Mice: Immunogenicity of Mammary Tumor Virus-containing Tissues in Mammary Tumor Virus-free C3H/2 Hosts.
David H. Lavrin.

1163 Autoradiographic Localization of Tritiated 7,12-Dimethylbenz(a)anthracene in Mast Cells of Hairless Mouse Skin.
William M. Tarnowski.

1168 Dermal Collagen Changes during 2-Aminoanthracene Carcinogenesis in the Rat.
Jeffrey S. Pinto, Richard L. Dobson, and J. Peter Bentley.

June L. Biedler and Hansjörg Riehm.

1185 Serum Lipoproteins of Rats Fed an Essential Fatty Acid-deficient Diet and N-2-Fluorenylacatamide.
K. Ananth Narayan.

1192 A Comparative Study of the Action of Carcinogenic Substances on the RNA Synthesis in Mouse Skin.
Kroum Alexandrov, Colette Vendrely, and Roger Vendrely.

1197 Aldolase C in Experimental Brain Tumor.
Shigeaki Sato, Takashi Sugimura, Sadao Kawai, and Yoichi Ishida.

1199 Search for Cross-reacting Antigenicity between Mammary Tumor Virus-induced Mammary Tumors and Embryonic Antigens: Effect of Immunization on Development of Spontaneous Mammary Tumors.
Phyllis B. Blair.

1203 RNA Synthesis Induction in Cell Culture by a Tumor Promoter.
Andrew Sivak and B. L. Van Duuren.

1206 Amino Acids of the 6C3HED Lymphosarcoma following Treatment with Asparaginase.
Wayne L. Ryan and James E. Dworak.

1210 Letter to the Editor: Asparagine Incorporation into the DNA of Hepatic and 6C3HED Murine Lymphosarcoma Cells.

1212 Announcements.

1213 Errata.