Contents

- 1567 Effects of Neonatally Administered Sex Steroids on 7,12-Dimethylbenz(a)anthracene-induced Mammary Neoplasia in Rats.

 Claire J. Shellabarger and Vivien A. Soo.
- **1570** * Cystathionine Excess in Children with Hepatic Cancer.

 Lawrence Helson, Robert H. F. Peterson, and Morton K. Schwartz.
- *A Sensitive Immunochemical Method for the Determination of the Regan Isoenzyme in Serum.

 *Magdalena Usategui-Gomez, F. M. Yeager, and Aurora Fernandez de Castro.
- * In Vitro Localization of ⁶⁷Ga in Exfoliated Epithelial Cells from the Uterine Cervix.

 Carolus M. Cobb, James E. Zuckerman, and Martin Annis.
- 1585 Respiratory Tract Tumors in Hamsters Induced by Benzo(a) pyrene.

 Mary C. Henry, Curtis D. Port, Richard R.

 Bates, and David G. Kaufman.
- 1593 Comparative Carcinogenicity in Swiss Mice of N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide and Structurally Related 5-Nitrofurans and 4-Nitrobenzenes.
 S. M. Cohen, G. M. Lower, Jr., E. Ertürk, and G. T. Bryan.
- 1598 Specific Antigenicity of Tumors and Immunological Tolerance in the Rat Induced by Friend, Gross, and Rauscher Viruses.

 H. Kobayashi, N. Kuzumaki, E. Gotohda, N. Takeichi, F. Sendo, M. Hosokawa, and T. Kodama.
- * Skeletal Location of Radiation-induced and Naturally Occurring Osteosarcomas in Man and Dog.

 Gary B. Thurman, Charles W. Mays, Glenn N. Taylor, Albert T. Keane, and Hubert A. Sissons.
- 1608 The Ultrastructure of Renal Neoplasms Induced by Aflatoxin B₁.

 Leonard P. Merkow, Sheldon M. Epstein, Malcolm Slifkin, and Matias Pardo.
- * Biochemical, Morphological, and Immunological Observations of Leukemic Reticulo-

- Volume 33 / Number 7 / July 1973 endotheliosis.
 - C. Patrick Burns, Richard D. Maca, and John C. Hoak.
- 1625 Age- and Sex-associated Diethylnitrosamine Dealkylation Activity of the Mouse Liver and Hepatocarcinogenesis.

 K. V. N. Rao and S. D. Vesselinovitch.
- 1628 The Effect of Methotrexate on Granulocytic Stem Cells and Granulopoiesis.

 William R. Vogler, Elizabeth S. Mingioli, and F. Ann Garwood.
- 1634 Studies of Alkylation of Nucleic Acids in Rats by Cyclic Nitrosamines.

 William Lijinsky, Larry Keefer, James Loo, and Allan E. Ross.
- 1642 Enhancement by Human Placental Lactogen of Mammary Hyperplastic Nodules in Ovariectomized Mice.

 Reiko Yanai and Hiroshi Nagasawa.
- 1645 Structural and Functional Changes in Novikoff Hepatoma Mitochondria.

 Michael T. White and Krishna K. Tewari.
- *Variations in Extend of Aryl Hydrocarbon Hydroxylase Induction in Cultured Human Lymphocytes. Gottfried Kellermann, Elroy Cantrell, and Charles R. Shaw.
- 1657 * Phenotypes of the Regan Isoenzyme and Identity between the Placental D-Variant and the Nagao Isoenzyme.

 Norma R. Inglis, Sandra Kirley, L. L. Stolbach, and William H. Fishman.
- 1662 Competitive RNA-DNA Hybridization of Nuclear and Microsomal RNA during Diethylnitrosamine Hepatocarcinogenesis.

 Carleton T. Garrett, Carol Katz, Robert E. Moore, and Henry C. Pitot.
- 1670 The Effects of Antibiotics and Cancer Chemotherapeutic Agents on the Cellular Transport and Antitumor Activity of Methotrexate in L1210 Murine Leukemia.

 Robert F. Zager, Shayla A. Frisby, and Vincent T. Oliverio.
- 1677 Carcinogenesis by Urethan via Mother's Milk

- and Its Enhancement of Transplacental Carcinogenesis in Mice.

 Taisei Nomura.
- 1684 Radioimmunoelectrophoretic Binding Assay for the Detection of Carcinoembryonic Antigen.

 John A. Coller, Robert W. Crichlow, and Lo Ke Yin.
- 1689 The Metabolism and Binding of Testosterone in Androgen-dependent and Autonomous Transplantable Mouse Mammary Tumors.

 Nicholas Bruchovsky and J. William Meakin.
- 1696 Breakage of a DNA-Protein Complex Induced by Bleomycin and Their Repair in Cultured Mouse Fibroblasts.

 Morihiko Saito and Toshiwo Andoh.
- 1701 Response of γ -Irradiated Mouse Salivary Gland Cells to a Proliferative Stimulus. Takehito Sasaki and Takeo Nogami.
- * Difficulties Designing Clinical Trials as Exemplified by a Phase 2 Drug Evaluation of 5[3,3-Bis(2-chloroethyl)-1-triazenol] imidazole-4-carboxamide and 1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea in Patients with Disseminated Breast Cancer.

 David L. Ahmann, Harry F. Bisel, and R. G. Hahn.
- 1711 Effect of Methylthioinosine on Nucleotide Concentrations in L5178Y Cells.

 C. Terry Warnick and Alan R. P. Paterson.
- 1716 Differential Lethal Effect of Cytotoxic Agents on Proliferating and Nonproliferating Lymphoid Cells.

 Hsiu-san Lin.
- 1721 Effect of Corticosteroid on Protein and Nucleic Acid Synthesis in Human Glial Tumor Cells.

 Tsu T. Chen and John Mealey, Jr.
- 1724 Increased Life-span in AKR Leukemia Mice Treated with Prophylactic Chemotherapy. Marc J. Straus, Sung C. Choi, and Abraham Goldin.
- 1729 Improved Therapeutic Index of Methotrexate with "Leucovorin Rescue."

 Martin Levitt, Michael B. Mosher, Ronald C. DeConti, Leonard R. Farber, Roland T. Skeel, John C. Marsh, Malcolm S. Mitchell, Rose J. Papac, E. Donnall Thomas, and Joseph R. Bertino.
- 1735 Kinetics of Entry and Distribution of 5-Fluorouracil in Cerebrospinal Fluid and Brain

- following Intravenous Injection in a Primate. Robert S. Bourke, Charles R. West, Girish Chheda, and Donald B. Tower.
- 1747 Increase of Soluble RNA Methylase Activities by Chemical Carcinogens.

 R. L. Hancock and P. I. Forrester.
- Inhibition of Cytotoxic Action of 1-β-D-Arabinofuranosyl-cytosine on S-Phase HeLa Cells by 5-Fluorodeoxyuridine.

 Richard L. Momparler.
- 1759 Inhibition by Urethan of the Synthesis of Free and Membrane-bound Ribosomal RNA in Regenerating Liver.

 Robert I. Glazer.
- * Fine Structure of Primary Liver Tumors and Tumor-bearing Livers in Man.

 **Marcus H. Ma and C. R. B. Blackburn.
- 1775 The Rate of Mutation of L5178Y Asparaginedependent Mouse Leukemia Cells to Asparagine Independence and Its Biological Consequences.

 Wilma P. Summers and Robert E. Handschumacher.
- 1780 Relationship between Growth and Radiosensitivity in the P388 Murine Leukemia. John W. Harris, Brian Shon, and Juanito Meneses.
- 1785 Transport of Orally Administered 9,10-Dimethyl-1,2-benzanthracene in the Sprague-Dawley Rat.

 Clinton J. Grubbs and Richard C. Moon.
- 1790 * Specific Antigens in Human Alveolar Cell Carcinoma.

 Robert E. Nordquist.
- 1796 Ribosomes of Mouse Liver following Administration of Dimethylnitrosamine.

 Gary M. Williams and Tore Hultin.
- Further Observations on the Effects of Trypsin on the Volume and Functions of Mitochondria Isolated from Normal Liver and AH-130 Yoshida Ascites Hepatoma.

 F. Feo, G. Bonelli, R. A. Canuto, and R. Gar-
- 1813 Books Received.
- 1814 Special Announcement.
- 1815 Announcements.
- 1816 Instructions to Authors.