Contents

3551 *Cecil H. Fox, James K. Selkirk, Floyd M. Price, Robert G. Croy, Katherine K. Sanford, and Michele Cottler-Fox. Metabolism of Benzo(a)pyrene by Human Epithelial Cells in Vitro.

3558 Luigi Varesio, Pietro Cappuccinelli, and Guido Forni. Inhibition of Replication of Virus-transformed Fibroblasts by Antibodies to RNA.

3566 Tsu T. Chen, Emilio C. Mora, and John Mealey, Jr. Cultivation of Medulloblastoma Cells Derived from Simian Adenovirus SA7-induced Hamster Brain Tumor.

3571 Malka Robert-Gero, Françoise Lawrence, and Philippe Vigier. Inhibition by Methioninyl Adenylate of Focus Formation by Rous Sarcoma Virus.

3577 *George E. Pierce and Bonita DeVald. Microcytotoxicity Assays of Tumor Immunity in Patients with Bronchogenic Carcinoma Correlated with Clinical Status.

3585 Alain Declève, Marilyn Travis, Irving L. Weissman, Miriam Lieberman, and Henry S. Kaplan. Focal Infection and Transformation in Situ of Thymus Cell Subclasses by a Thymotropic Murine Leukemia Virus.

3596 James Shaeffer, Anas M. El-Mahdi, and William C. Constable. Survival of Mice with Metastatic Osteosarcoma Treated by Cyclophosphamide or Radiotherapy.

3599 G. T. Bowden, James E. Trosko, B. G. Shapas, and R. K. Boutwell. Excision of Pyrimidine Dimers from Epidermal DNA and Nonsemiconservative Epidermal DNA Synthesis following Ultraviolet Irradiation of Mouse Skin.

3608 Charles L. Harris, Fred T. Kerns, and William St. Clair. RNA Sulfurtransferase Activity in Rat Liver and Chemically Induced Hepatomas.


3618 Shrago Don and Uriel Bachrach. Polyamine Metabolism in Normal and in Virus-transformed Chick Embryo Fibroblasts.


3642 Shen K. Yang, James K. Selkirk, Elliot V. Plotkin, and Harry V. Gelboin. Kinetic Analysis of the Metabolism of Benzo(a)pyrene to Phenols, Dihydrodiols, and Quinones by High-Pressure Liquid Chromatography Compared to Analysis by Aryl Hydrocarbon Hydroxylase Assay, and the Effect of Enzyme Induction.

3651 James K. Selkirk, Robert G. Croy, James P. Whitlock, Jr., and Harry V. Gelboin. In Vitro Metabolism of Benzo(a)pyrene by Human Liver Microsomes and Lymphocytes.

3656 Annemarie Hekman and Maria H. G. Melis. Increased Expression of a Normal Lymphocyte Membrane Antigen on Chronic Lymphatic Leukemia Cells.
Hiroshi Hoshino and Hiroshi Tanooka. Interval Effect of \( \beta \)-Irradiation and Subsequent 4-Nitroquinoline 1-Oxide Painting on Skin Tumor Induction in Mice.

Paul Kleihues, Jennifer M. Margison, and Geoffrey P. Margison. Dimethylnitrosamine-induced Inhibition of Hepatic Protein Synthesis \textit{in Vitro} and the Effect of Pretreatment with Cystamine or Pregnenolone-16\( \alpha \)-carbonitride.


Bela Toth. Synthetic and Naturally Occurring Hydrazines as Possible Cancer Causative Agents.

Przemyslaw Janik, Per Briand, and Niels R. Hartmann. The Effect of Estrone-Progesterone Treatment on Cell Proliferation Kinetics of Hormone-dependent GR Mouse Mammary Tumors.

Takusaburo Ebina and Nakao Ishida. Inhibition of Formation of Microtubular Paracrystals in HeLa-S3 Cells by Neocarzinostatin.


Nathan H. Sloane. \( \alpha \)-Naphthoflavone Activation of 6-Hydroxymethylbenzo(\( \alpha \))pyrene Synthetase.

David Kessel and James G. Belton. Effects of 4-Nitrobenzofurazans and their \( N \)-Oxides on Synthesis of Protein and Nucleic Acid by Murine Leukemia Cells.


Stephen J. Mohr, Michael A. Chirigos, Frederick S. Fuhrman, and James W. Pryor. Pyram Copolymer as an Effective Adjuvant to Chemotherapy against a Murine Leukemia and Solid Tumor.


Gordon C. Hard. Autoradiographic Analysis of Proliferative Activity in Rat Kidney Epithelial and Mesenchymal Cell Subpopulations following a Carcinogenic Dose of Dimethylnitrosamine.


O. G. Fahmy and Myrtle J. Fahmy. Genetic Properties of \( N-\alpha \)-Acetoxyethylmethyl- \( N \)-methylnitrosourea in Relation to the Metabolic Activation of \( N, N \)-Dimethylnitrosourea.

Keiji Toyoshima and Joseph Leighton. Bladder Calculi and Urothelial Hyperplasia with Papillomatosis in the Rat following Insertion of Chalk Powder in the Bladder Cavity with Subsequent Trauma of the Bladder Wall.

George G. Hatch, Bruce C. Casto, Kenneth J. McCormick, and John J. Trentin. RNA Type C Virus Antigens in Hamster Cells Transformed by Carcinogenic DNA Viruses and Chemicals.

Christopher Carruthers, Alverna Baumler, Ann Neilson, and David Pressman. Binding of the Azocarcinogen 3'-Methyl-p-dimethylaminoazobenzene to Cellular Components of Normal Rat Liver and Azocarcinogen-induced Hepatomas.


David H. Swenson, James A. Miller, and Elizabeth C. Miller. The Reactivity and Carcinogenicity of Aflatoxin B \(_1\),2,3-Dichloride, a Model for the Putative 2,3-Oxide Metabolite of Aflatoxin B \(_1\).

Kazymir M. Pozhariski. The Significance of Non-specific Injury for Colon Carcinogenesis in Rats.
COVER LEGEND

CANCER RESEARCH for its cover theme this month in recognition of International Women's Year salutes the important contributions to cancer research made by eight senior women scientists, honored members of the American Association for Cancer Research (clockwise from top left):

Anna Goldfeder, of New York City, for her contributions to radiobiology and cancer research in mice (e.g., Cancer Res., 11: 169, 1951).

Ragna Rask-Nielsen, of Denmark, for her studies on leukerhia in mice and on biological effects of chemical carcinogens (e.g., J. Natl. Cancer Inst., 16: 1129, 1956).

Katherine K. Sanford, of Bethesda, Maryland, for her contributions to tissue culture and carcinogenesis in vitro (e.g., J. Natl. Cancer Inst., 15: 215, 1954).


Helene Wallace Toolan, of Bennington, Vermont, for her contributions to experimental cancer biology, especially tumor heterotransplantation (e.g., Cancer Res., 14: 660, 1954).

Jane C. Wright, of New York City, for her contributions to research in clinical cancer chemotherapy (e.g., Cancer, 17: 1045, 1964).

Rose Ruth Ellison, of Buffalo, New York, for her research in clinical cancer chemotherapy (e.g., Blood, 32: 507, 1968).

Elizabeth Fekete, of Bar Harbor, Maine, for her biological studies of cancer in mice, including effects of ova transfer (e.g., Cancer Res., 14: 445, 1954).

M.B.S.