CONTENTS†

Asterisks preceding page numbers refer to studies using human-derived material.

Perspectives in Cancer Research


BASIC SCIENCES

5256 Synergistic Growth Inhibition of Rat Hepatoma Cells Exposed in Vitro to N³-Propargyl-5,8-dideazafolate with Methotrexate or the Lipophilic Antifolates Trimetrexate or Metoprine. John Galivan, Zienia Nimiec, and Myung Rhee.


5270 Changes in the Glutathione Content of Rat 9L Cells Induced by Treatment with the Ornithine Decarboxylase Inhibitor α-Difluoromethylornithine. Karl J. Hunter, Dennis F. Deen, and Laurence J. Marton.

5274 Hypomethylation of DNA in Pathological Conditions of the Human Prostate. Mark T. Bedford and Paul D. van Helden.


5287 Prognostic Significance of the Expression of a ras Protein with a Molecular Weight of 21,000 by Human Breast Cancer. Timothy Clair, William R. Miller, and Yoon Sang Cho-Chung.


5310 Enhancing Effect of a Bay Region Methyl Group on Tumorigenicity in Newborn Mice and Mouse Skin of Estrogenic Bay Region DioIl Epoxides Formed Stereoslectively from Methylchrysenes in Mouse Epidermis. Stephen S. Hecht, Shantu Amin, Keith Huie, Assieh A. Melikian, and Ronald G. Harvey.


5330 Quantitation of Autocrine Regulation of Tumor Growth: A General Phenomenological Model. Željko Bajzer and Stanimir Vuk-Pavlović.


5340 Dose-related Inhibition of Colon Carcinogenesis by Dietary Piroxicam, a Nonsteroidal Antiinflammatory Drug, during Different Stages of Rat Colon Tumor Development. Bandaru S. Reddy, Hiroshi Maruyama, and Gary Kelloff.


5354 Contrasting Disposition and Metabolism of Topically Applied Benzo(a)pyrene, trans-7,8-Dihydroxy-7,8-dihydrobenzo(a)pyrene, and 7,8,8α-Dihydroxy-9α,10α-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene in Mouse Epidermis in Vivo. Assieh A. Melikian, Kourosh Bagheri, and Stephen S. Hecht.

5361 Potentiation of Halogenated Pyrimidine Radiosensitizers in Human Carcinoma Cells by β-Lapachone (3,4-Dihydro-2,2-dimethyl-2H-naphthol[1,2-b]pyran-5,6-dione), a Novel DNA Repair Inhibitor. David A. Boothman, Sheldon Greer, and Arthur B. Pardee.

5367 Oxygen Dependence of Binding of Misonidazole to Rodent and Human Tumors in Vitro. Allan J. Franko, Cameron J. Koch, Bonnie M. Garrecht, Janet Sharplin, and David Hughes.


5386 Reversal of the Antitumor Effects of Tamoxifen by Progesterone in the 7,12-Dimethylbenzanthracene-induced Rat Mammary Carcinoma Model. Simon P. Robinson and V. Craig Jordan.

5391 Synergic Monoclonal Antibodies to B16 Melanoma Viral Antigens. Irving Rappaport, Andrea L. Alterman, Susan Braverman, and Christopher W. Stackpole.

5397 Increase in Intracellular Na⁺: Transmembrane Signal for Rejoining of DNA Strand Breaks in Proliferating Lymphocytes. Kanteti V. S. Prasad, Wenda L. Greer, Alberto Severini, and J. Gordin Kaplan.

5401 Pharmacokinetics of 4'-Deoxy-4'-ido-doxorubicin in Plasma and Tissues of Tumor-bearing Mice Compared with Doxorubicin. Franca Formelli, Roberto Carsana, and Carmen Pollini.

† The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.
5407 Reduced Levels of Histones H1* and H1b, and Unaltered Content of Methylated DNA in Rainbow Trout Hepatocellular Carcinoma Chromatin. James R. Davie, Genevieve P. Deluve, Barbara E. Nickel, Morier, and George Bailey.


5421 DNA Cross-Linking and Single-Strand Breaks Induced by Teratogenic Concentrations of 4-Hydroperoxycyclophosphamide and Phosphoramid Mustard in Postimplantation Rat Embryos. Sally A. Little and Philip E. Mirkes.

5427 Radiolocalization of Xenograft Human Lung Cancer with Monoclonal Antibody 8 in Nude Mice. Katsuyuki Endo, Hiroshi Kamma, and Takesaburo Ogata.


5439 Inhibition of Lymphoma Invasion and Liver Metastasis Formation by Pertussis Toxin. Ed Roos and Ilja V. Van de Pavert.

5445 Partial Parallelism and Partial Blockade by Bryostatin 1 of Effects of Phorbol Ester Tumor Promoters on Primary Mouse Epidermal Cells. Takashi Sako, Stuart H. Yuspa, Cherry L. Herald, George R. Pettit, and Peter M. Blumberg.


5469 In Situ Hybridization Studies on Expression of Albumin and α-Fetoprotein during the Early Stage of Neoplastic Transformation in Rat Liver. Ritva P. Evarts, Peter Nagy, Elizabeth Marsden, and Snorri S. Thorgeirsson.


CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS


5494 Retrospective Analysis of the Prognostic Significance of DNA Content and Proliferative Activity in Large Bowel Carcinoma. Bert Schutte, Michele M. J. Reynolds, Theodore Wiggers, Jan Willem Arends, Lex Volovics, Fred T. Bosman, and Geert H. Blijham.


5501 Relationship of Carbohydrate Antigen 19-9 and Lewis Antigens in Pancreatic Cancer. Margaret A. Tempero, Eiji Uchida, Hideaki Takasaki, David A. Burnett, Zenon Stepleski, and Parviz M. Pour.


5514 Announcements

5515 Author Index

NOTE: Application for membership in the American Association for Cancer Research available in the back of this issue.
Potentiation of Halogenated Pyrimidine Radiosensitizers in Human Carcinoma Cells by β-Lapachone (3,4-Dihydro-2,2-dimethyl-2H-naphtho[1,2-e]pyran-5,6-dione), a Novel DNA Repair Inhibitor. David A. Boothman, Sheldon Greer, and Arthur B. Pardee.

Pharmacokinetics of 4'-Deoxy-4'-iodo-doxorubicin in Plasma and Tissues of Tumor-bearing Mice Compared with Doxorubicin. Franca Formelli, Roberto Carsana, and Carmen Pollini.


Prognostic Significance of the Expression of a ras Protein with a Molecular Weight of 21,000 by Human Breast Cancer. Timothy Clair, William R. Miller, and Yoon Sang Cho-Chung.


Quantitation of Autocrine Regulation of Tumor Growth: A General Phenomenological Model. Željko Bajzer and Stanimir Vuk-Pavlović.


Inhibition of Lymphoma Invasion and Liver Metastasis Formation by Periussis Toxin. Ed Roos and Ilja V. Van de Pavert.


CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical


Relationship of Carbohydrate Antigen 19-9 and Lewis Antigens in Pancreatic Cancer. Margaret A. Tempero, Eiji Uchida, Hideaki Takasaki, David A. Burnett, Zenon Steplewski, and Parviz M. Pour.


Epidemiological


Retrospective Analysis of the Prognostic Significance of DNA Content and Proliferative Activity in Large Bowel Carcinoma. Bert Schutte, Michele M. J. Reynders, Theodore Wiggers, Jan Willem Arends, Lex Volovics, Fred T. Bosman, and Geert H. Blijham.

Meeting Report


Announcements

Erratum

Author Index

NOTE: Application for membership in the American Association for Cancer Research available in the back of this issue.