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 N\(^{\text{N}}\)-Propargyl-5,8-dideoazafolate with Methotrexate or the Lipophilic Antifolates Trimetrexate or Metoprine. John Galivan, Zenia Nimec, 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.


5290 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.


5307 Enhancement Effect of a Bay Region Methyl Group on Tumorigenicity in Newborn Mice and Mouse Skin of Estrogenic Bay Region D1ol 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, \(\text{trans-7,8-Dihydroxy-7,8-dihydrobenzo(a)pyrene, and} \ \beta,\beta\text{-Dihydroxy-9α,10α-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene in Mouse Eipidermis in Vitro.}

5361 Potentiation of Halogenated Pyrimidine Radiosensitizers in Human Carcinoma Cells by β-Lapachone (3,4-Dihydro-2,2-dimethyl-2H-naphthol[1,2-β]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.

5377 Localization of G\(>2\)-specific Monoclonal Antibody 3F8 in 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.

5389 Synergistic 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. Kenteti 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 Carasana, and Carmen Pollini.

† The CONTENTS arranged by Subject Category can be found immediately following these CONTENTS.


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


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

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


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


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.


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.


Meeting Report


Announcements

Erratum


Author Index
Cancer Research
VOLUME 47 • NUMBER 20

CONTENTS Arranged by Subject Category

Perspectives in Cancer Research


BASIC SCIENCES

Biochemistry and Biophysics

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. Marston.

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

5287 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.

Carcinogenesis

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

5323 Effects of Pharmacological Concentrations of Estrogens on Prostate Cancer in Newborn Mice and Mouse Skin of Enantiomeric Bay Region Diol Epoxides Formed Stereoselectively from Methylchrysenes in Mouse Epidermis. Stephen S. Hecht, Shantu Amin, Keith Hui, Assieh A. Melikian, and Ronald G. Harvey.


5367 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 Syngeneic Monoclonal Antibodies to B16 Melanoma Viral Antigens. Irving Rappaport, Andrea L. Alterman, Susan Braverman, and Christopher W. Stackpole.

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

Molecular Biology and Genetics

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

5407 Reduced Levels of Histones H1<sup>+</sup> and H1b and Unaltered Content of Methylated DNA in Rainbow Trout Hepatocellular Carcinoma Chromatin. James R. Davie, Genevieve P. Deluce, Barbara E. Nickel, Richard Moirier, and George Bailey.


Preclinical Pharmacology and Experimental Therapeutics

5256 Synergistic Growth Inhibition of Rat Hepatoma Cells Exposed in Vitro to N<sub>2</sub>-Propargyl-5,8-dideazafolate with Methotrexate or the Lipophilic Antifolates Trimetrexate or Metoprine. John Galivan, Zenia Nimic, and Myung Rhee.


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'-ido-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 Pertussis Toxin. Ed Roos and Ilja V. Van de Pavert.


CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS


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.


Retrospective Analysis of the Prognostic Significance of DNA Content and Proliferative Activity in Large Bowel Carcinoma. Bert Schutte, Michele J. M. Reyners, Theodore Wiggers, Jan Willem Arends, Lex Volovicns, 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.