Contents

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

3301 Editorial. P. N. Magee
Perspectives in Cancer Research


Basic sciences


3313 Inhibition by Dietary Ethanol of Experimental Colon Cancer Induction by High-Dose Azoxymer V in F344 Rats. Stanley R. Hamilton, Ock Soon Sohn, and Emerich S. Fiala.

3319 Increased Growth Inhibition and DNA Lesions in Human Colon Adenocarcinoma Cells Treated with Methotrexate or 5-Fluorodeoxyuridine followed by Calmodulin Inhibitors. Ulf Lönn and Sigrid Lönn.

3324 Role of Protein Kinase C in Phosphorylation of Vinculin in Ail-cell Hybridoma Cells. Shouval, Miriam Anton, Eithan Galun, and Judith B. Sherwood.


3336 Polyamine Metabolism and Interconversion in NIH 3T3 and ras-transfected NIH 3T3 Cells. Rajabu Pakala, Miriam Kreisel, and Uriel Bachrach.


3347 Metabolism of the Z and E Isomers of N-Nitroso-N-methyl-(2-oxopropyl)amine by Rat Hepatocytes. James G. Farrelly, Mary L. Stewart, David W. Farnsworth, and Joseph E. Saavedra.

3350 Modification of Photodynamic Therapy-induced Hypoxia by Fluoresol-DA (20%) and Carbogen Breathing in Mice. Victor H. Fingar, Thomas S. Mang, and Barbara W. Henderson.

3355 cis-Diamminedichloroplatinum(II)-resistant Sublines Derived from Two Human Ovarian Tumor Cell Lines. Peter J. K. Kuppen, Hanneke Schuitemaker, Laura J. van't Veer, Ernst A. de Bruijn, Allan T. van Oosterom, and Peter I. Schirrm.


3374 Motility and Tumorcidal Activity of Interleukin-2-stimulated Lymphocytes. Stuart Ratner and Gloria H. Heppner.

3381 Zinc Metabolism in Ehrlich Cells: Properties of a Metallothionein-like Zinc-binding Protein. Alan J. Kraker, Glenn Krakower, C. Frank Shaw III, David H. Petering, and Justine S. Garvey.


3398 Role of Methylene tetrahydrofolate Depletion in Methotrexate-mediated Intracellular Thymidylate Synthesis Inhibition in Cultured L1210 Cells. Marlene Bunni, Marion T. Doig, Henry Donato, V. Kesavan, and David G. Priest.

3405 Invasiveness in Hepatocyte and Fibroblast Monolayers and Metastatic Potential of T-Cell Hybridomas in Mice. Geertje la Rivière, Cor A. Schipper, John G. Collard, and Ed Roos.

3411 Flow Cytometric Analysis of DNA Ploidy in Canine Mammary Tumors. Gerard R. Rutteman, Cees J. Cornelisse, Nel J. Dijkshoorn, Jan Poortman, and Wim Misiorp.

3418 Cytidine 5'-Triphosphate-dependent Dolichol Kinase and Dolichol Phosphatase Activities and Levels of Dolichyl Phosphate in Microsomal Fractions from Highly Differentiated Human Hepatoma Cells. Ivan Eggen, Johan Ericsson, and Orjan Tollbom.


3435 Induction of Sister Chromatid Exchanges and Chromosomal Aberrations by Busulfan in Philadelphia Chromosome-positive Chronic Myeloid Leukemia and Normal Bone Marrow. Reinhard Becher and Gabriele Prescher.


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


3478 Site-specific Metastasis of Mouse Melanomas and a Fibrosarcoma in the Brain or Meninges of Syngeneic Animals. Gabriele Schackert and Isaiah J. Fidler.


3502 Hormonal Regulation of CA125 Tumor Marker Expression in Human Ovarian Carcinoma Cells: Inhibition by Glucocorticoids. Beth Y. Karlan, Waheeda Amin, Scott E. Casper, and Bruce A. Littlefield.

3507 Fibrin-Fibronectin Compounds in Human Ovarian Tumor Ascites and Their Possible Relation to the Tumor Stroma. Olaf Wilhelm, Reimar Hafer, Eva Coppenrath, MaryAnn Pflanz, Manfred Schmitt, Rudolf Babic, Reinhold Linke, Wolfgang Gössner, and Henner Graeff.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS


NOTE: Application for membership in the American Association for Cancer Research available in the back of this issue.
Cancer Research
VOLUME 48 • NUMBER 12
CONTENTS Arranged by Subject Category

Editorial. P. N. Magee.
Perspectives in Cancer Research


BASIC SCIENCES

Biochemistry and Biophysics

Role of Protein Kinase C in Phosphorylation of Vinculin in Adriamycin-resistant HL-60 Leukemia Cells. Angelo Aquino, Kathleen D. Hartman, Marican C. Knude, Steven Grant, Kuoping Huang, Chien-Hua Niu, and Robert I. Glazer.


Zinc Metabolism in Ehrlich Cells: Properties of a Metallothionein-like Zinc-binding Protein. Alan J. Krakower, Glenn Krakower, C. Frank Shaw III, David H. Petering, and Justine S. Garvey.


Fibrin-Fibronectin Compounds in Human Ovarian Tumor Ascites and Their Possible Relation to the Tumor Stromal. Olaf Wilhelm, Reimar Hafer, Eva Coppenrath, MaryAnn Pflanz, Manfred Schmitt, Rudolf Babic, Reinhild Linke, Wolfgang Gossner, and Henner Graeff.

Carcinogenesis

Inhibition by Dietary Ethanol of Experimental Colonic Carcinogenesis Induced by High-Dose Aoxymethane in F344 Rats. Stanley R. Hamilton, Ock Soon Sohn, and Emeric S. Fiala.


Metabolism of the Z and E Isomers of N-Nitroso-N-methyl-(2-oxopropyl)amine by Rat Hepatocytes. James G. Farrelly, Mary L. Donato, V. Kesavan, and David G. Priest.

Cytidine 5'-Triphosphate-dependent Dolichol Kinase and Dolichol Phosphatase Activities and Levels of Dolichyl Phosphate in Microsomal Fractions from Highly Differentiated Human Hepatoma. Ivan Eggens, Johan Ericsson, and Orjan Tollbom.


Immunology


Motility and Tumoroidal Activity of Interleukin-2-stimulated Lymphocytes. Stuart Ratner and Gloria H. Heppner.


Molecular Biology and Genetics


Preclinical Pharmacology and Experimental Therapeutics

Increased Growth Inhibition and DNA Lesions in Human Colon Adenocarcinoma Cells Treated with Methotrexate or 5-Fluorodeoxyuridine followed by Calmodulin Inhibitors. Ulf Lonn and Sigrid Lonn.

Modification of Photodynamic Therapy-induced Hypoxia by Furosemide (20%) and Carbogen Breathing in Mice. Victor H. Fingar, Thomas S. Mang, and Barbara W. Henderson.


Tumor Biology


Polyamine Metabolism and Interconversion in NIH 3T3 and rat-transfected NIH 3T3 Cells. Rajabu Pakala, Miriam Kreisel, and Uriel Bachrach.

cis-Diaminedichloroplatinum(II)-resistant Sublines Derived from Two Human Ovarian Tumor Cell Lines. Peter J. Kuppen, Hanneke Schuitemaker, Laura J. van't Veer, Ernst A. de Bruijn, Allan T. van Oosterom, and Peter I. Schrier.


Prediagnostic Serum Hormones and the Risk of Prostate Cancer. Abraham Nomura, Lance K. Heilbrun, Grant N. Stemmermann, and Howard L. Judd.


Hormonal Regulation of CA125 Tumor Marker Expression in Human Ovarian Carcinoma Cells: Inhibition by Glucocorticoids. Beth Y. Karlan, Waheeda Amin, Scott E. Casper, and Bruce A. Littlefield.

Meeting Report

Rare Events as Clues to Cancer Etiology: The Eighteenth Annual Symposium of the Princess Takamatsu Cancer Research Fund. Robert W. Miller.

Announcements

Exciting Programs Scheduled for AACR's New Series of Meetings
Future Annual Meetings of the AACR
Collected Perspectives
Calendar of Events

Erratum


Author Index

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