



CONTENTS§

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

- * 2549** Decreased Accumulation as a Mechanism of Resistance to *cis*-Diamminedichloroplatinum(II) in Human Non-Small Cell Lung Cancer Cell Lines: Relation to DNA Damage and Repair. Masami Bungo, Yasuhiro Fujiwara, Kazuo Kasahara, Kazuhiko Nakagawa, Yuichiro Ohe, Yasutsuna Sasaki, Shozo Irino, and Nagahiro Saijo.
- 2554** Characteristics of Potential Lymphoma-inducing Cells in Mice Sensitive or Resistant to Lymphomagenesis by Radiation Leukemia Virus Variants. Irina Gokhman, Alpha Peled, and Nechama Haran-Ghera.
- 2562** Chemoprevention of Colon Carcinogenesis by Concurrent Administration of Piroxicam, a Nonsteroidal Antiinflammatory Drug with D,L- α -Difluoromethylornithine, an Ornithine Decarboxylase Inhibitor, in Diet. Bandaru S. Reddy, Jayashree Nayini, Kenji Tokumo, Jeff Rigotty, Edith Zang, and Gary Kelloff.
- * 2569** Life-Style, Workplace, and Stomach Cancer by Subsite in Young Men of Los Angeles County. Anna H. Wu-Williams, Mimi C. Yu, and Thomas M. Mack.
- 2577** Abrogation by Novobiocin of Cytotoxicity Due to the Topoisomerase II Inhibitor Amsacrine in Chinese Hamster Cells. H. Utsumi, M. L. Shibuya, T. Kosaka, W. E. Buddenbaum, and M. M. Elkind.
- 2582** Inhibition of Tumor Cell Proliferation by Natural Suppressor Cells Present in Murine Bone Marrow. Kikuya Sugiura, Muneo Inaba, Hajime Ogata, Ryoji Yasumuzu, Evelio E. Sardiña, Kayo Inaba, Sho-ichi Kuma, Robert A. Good, and Susumu Ikehara.
- 2587** Solid-Phase Anti-CD3 Antibody Activation of Murine Tumor-infiltrating Lymphocytes. Anthony F. Massaro, Deric D. Schoof, Amy Rubinstein, Markus Zuber, Frank J. Leonard-Vidal, and Timothy J. Eberlein.
- * 2593** Defective Postreplication Repair in Xeroderma Pigmentosum Variant Fibroblasts. Jayne C. Boyer, William K. Kaufmann, Bruna P. Brylawski, and Marila Cordeiro-Stone.
- 2599** Role of Thromboxane and Prostacyclin Release on Photodynamic Therapy-induced Tumor Destruction. Victor H. Fingar, T. Jeffery Wieman, and Karola Weber Doak.
- * 2604** Effects of Progesterone on the Response to Epidermal Growth Factor and Other Growth Factors in Cultured Human Meningioma Cells. Jan W. Koper, John A. Foekens, R. Braakman, and Steven W. J. Lamberts.
- * 2608** Gestational and Familial Risk Factors for Childhood Astrocytoma: Results of a Case-Control Study. René R. Kuijten, Greta R. Bunin, Catharie C. Nass, and Anna T. Meadows.
- 2613** Effects of Indole-3-carbinol on Lung Tumorigenesis and DNA Methylation Induced by 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) and on the Metabolism and Disposition of NNK in A/J Mice. Mark A. Morse, Susan D. LaGreca, Shantu G. Amin, and Fung-Lung Chung.
- * 2618** Induction of Differentiation and DNA Strand Breakage in Human HL-60 and K-562 Leukemia Cells by Genistein. Andreas Constantinou, Kaoru Kiguchi, and Eliezer Huberman.
- 2625** Chemotherapeutic Characterization in Mice of 2-Amino-9- β -D-ribofuranosylpurine-6-sulfonamide (Sulfinosine), a Novel Purine Nucleoside with Unique Antitumor Properties. Thomas L. Avery, Rick A. Finch, Karen M. Vasquez, Saeed Radparvar, Naem B. Hanna, Ganapathi R. Revankar, and Roland K. Robins.
- 2631** Ultraviolet Radiation Induction of Ornithine Decarboxylase in Rat Keratinocytes. Cheryl F. Rosen, Dragan Gajic, and Daniel J. Drucker.
- * 2636** Potentiation of Topoisomerase Inhibitor-induced DNA Strand Breakage and Cytotoxicity by Tumor Necrosis Factor: Enhancement of Topoisomerase Activity as a Mechanism of Potentiation. Teruhiro Utsugi, Michael R. Mattern, Christopher K. Mirabelli, and Nabil Hanna.
- * 2641** Metabolic Activation of Aflatoxin B₁ and 2-Amino-3-methylimidazo[4,5-f]quinoline by Human Adult and Fetal Livers. Mitsukazu Kitada, Masaki Taneda, Kazuhide Ohta, Kazuo Nagashima, Koshiro Itahashi, and Tetsuya Kamataki.
- 2646** Treatment of R-3327 Prostate Tumors with a Somatostatin Analogue (Somatuline) as Adjuvant Therapy following Surgical Castration. Arthur E. Bogden, John E. Taylor, Jacques-Pierre Moreau, and David H. Coy.
- * 2651** Labeling Index and Labeling Distribution of Cells in Esophageal Epithelium of Individuals at Increased Risk for Esophageal Cancer in Huixian, China. Li Dong Wang, Martin Lipkin, Song Liang Qui, Guan Rui Yang, Chung S. Yang, and Harold L. Newmark.
- * 2654** The Down-Regulation of α -Interferon Receptors in Human Lymphoblastoid Cells: Relation to Cellular Responsiveness to the Antiproliferative Action of α -Interferon. Lawrence M. Pfeffer and David B. Donner.
- * 2658** Effects of 1- β -D-Arabinofuranosylcytosine on DNA Replication Intermediates Monitored by pH-Step Alkaline Elution. Douglas D. Ross, Shu-Rung Serena Chen, and Dennis P. Cuddy.
- * 2667** Phase I Trial of 5-Fluorouracil and Dipyridamole Administered by Seventy-two-Hour Concurrent Continuous Infusion. Scot C. Remick, Jean L. Grem, Paul H. Fischer, Kendra D. Tutsch, Dona B. Alberti, Lavonne M. Nieting, Mary B. Tombes, Joan Bruggink, James K. V. Willson, and Donald L. Trump.
- * 2673** Stimulation of Tumor Necrosis Factor Release from Monocytic Cells by the A375 Human Melanoma via Granulocyte-Macrophage Colony-stimulating Factor. Massimo Sabatini, Jeffery Chavez, Gregory R. Mundy, and Lynda F. Bonewald.
- 2679** Effects of Neonatal and Adult Castration and of Testosterone Substitution in Male Rats on Growth of Enzyme-altered Hepatic Foci in the Resistant Hepatocyte Model. Barbro Lindhe, Inger Porsch-Hällström, Jan-Åke Gustafsson, and Agneta Blanck.
- * 2683** Natural Killer Cells Activated by Interleukin 2 Treatment *in Vivo* Respond to Interleukin 2 Primarily through the p75 Receptor and Maintain the p55 (TAC) Negative Phenotype. Gilda Weil-Hillman, Stephan D. Voss, Paul Fisch, Kathleen Schell, Jacquelyn A. Hank, Jeffrey A. Sosman, Kazuo Sugamura, and Paul M. Sondel.

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

- *2692 **Pharmacokinetic and Toxicity Scaling of the Antitumor Agents Amsacrine and CI-921, a New Analogue, in Mice, Rats, Rabbits, Dogs, and Humans.** James W. Paxton, Sang N. Kim, and Lloyd R. Whitfield.
- *2698 **Chromosome Abnormalities in Malignant Lymphoma in Patients from Kurashiki: Histological and Immunophenotypic Correlations.** Hiroshi Konishi, Masaharu Sakurai, Hatsue Nakao, Nobuo Maseki, Yasuhiko Kaneko, Yoshio Yagiri, Kenji Notohara, and Glauco Frizzera.
- *2704 **Identification of an Epitope Region of the Human Proliferation-associated Nucleolar Antigen P120.** Benigno C. Valdez, Rose K. Busch, Robert G. Larson, and Harris Busch.
- *2708 **Lymphokine-independent, Leukemia Cell-mediated Induction of Tumor Necrosis Factor in Human Monocytes.** Tomoyuki Yamauchi, Terutaka Sagawa, Makoto Kanoh, and Sayaka Utsumi.
- 2713 **Mechanism of Epipodophyllotoxin-induced Cell Death in Poly(Adenosine Diphosphate-Ribose) Synthesis-deficient V79 Chinese Hamster Cell Lines.** Satadal Chatterjee, Divyang Trivedi, Shirley J. Petzold, and Nathan A. Berger.
- 2719 **Effect of Hypoxia on 1,3-Bis(2-chloroethyl)-1-nitrosourea Cytotoxicity in 9L Cells.** Aparajita Sarkar, Jih-Tsun Ho, Laurence J. Marton, and Dennis F. Deen.
- *2724 **Frequent Loss of Heterozygosity on Chromosomes 6q, 11, and 17 in Human Ovarian Carcinomas.** Je H. Lee, John J. Kavanagh, David M. Wildrick, J. Taylor Wharton, and Mark Blick.
- 2729 **Androgen-dependent Renal Microsomal Cytochrome P-450 Responsible for *N*-Hydroxylation and Mutagenic Activation of 3-Methoxy-4-aminoazobenzene in the BALB/c Mouse.** Masakuni Degawa, Shin-ichi Miura, and Yoshiyuki Hashimoto.
- 2734 **Addition of 2-Nitroimidazole Radiosensitizers to *cis*-Diamminedichloroplatinum(II) with Radiation and with or without Hyperthermia in the Murine F5a1C Fibrosarcoma.** Terence S. Herman, Beverly A. Teicher, Sylvia A. Holden, M. Raphael Pfeffer, and Steven M. Jones.
- *2741 **Leukemia following Chemotherapy for Breast Cancer.** Rochelle E. Curtis, John D. Boice, Jr., William C. Moloney, Lynn Gloeckler Ries, and John T. Flannery.
- *2747 **Selectivity of Rat and Human Glutathione *S*-Transferases in Activation of Ethylene Dibromide by Glutathione Conjugation and DNA Binding and Induction of Unscheduled DNA Synthesis in Human Hepatocytes.** Joan L. Cmarik, Philip B. Inskip, Michael J. Meredith, David J. Meyer, Brian Ketterer, and F. Peter Guengerich.
- 2753 **Ca²⁺-dependent Binding of Tamoxifen to Calmodulin Isolated from Bovine Brain.** M. Celeste F. Lopes, M. Graça P. Vale, and Arsélio P. Carvalho.
- *2759 **Accumulation of *O*⁶-Methylguanine in Human Blood Leukocyte DNA during Exposure to Procarbazine and Its Relationships with Dose and Repair.** Vassilis L. Souliotis, Stella Kaila, Viki A. Boussiotis, Gerasimos A. Pangalis, and Soterios A. Kyrtopoulos.
- *2765 **Effects of Tumor Necrosis Factor α on Skeletal Muscle and Walker 256 Carcinosarcoma Protein Metabolism Studied *in Vivo*.** John A. Tayek and Jo Anne Brasel.
- *2769 **Effect of α -Difluoromethylornithine on 1,3-Bis(2-chloroethyl)-1-nitrosourea and *cis*-Diamminedichloroplatinum(II) Cytotoxicity, DNA Interstrand Cross-Linking, and Growth in Human Brain Tumor Cell Lines *in Vitro*.** Karl J. Hunter, Dennis F. Deen, Malgorzata Pellarin, and Laurence J. Marton.
- *2773 **Characteristics of Cell Lines Established from Human Gastric Carcinoma.** Jae-Gahb Park, Harold Frucht, Renato V. LaRocca, David P. Bliss, Jr., Yukio Kurita, Tchaw-Ren Chen, Jerry G. Henslee, Jane B. Trepel, Robert T. Jensen, Bruce E. Johnson, Young-Jue Bang, Jin-Pok Kim, and Adi F. Gazdar.
- *2781 **Development and Characterization of Pediatric Osteosarcoma Xenografts.** William H. Meyer, Janet A. Houghton, Peter J. Houghton, Bruce L. Webber, Edwin C. Douglass, and A. Thomas Look.
- *2786 **Chromosome Analysis of 31 Wilms' Tumors.** Sheng Wang-Wuu, Shirley Soukup, Kevin Bove, Betsy Gotwals, and Beatrice Lampkin.
- *2794 **Importance of Phenotypic and Molecular Characterization for Identification of a Neuroepithelioma Tumor Cell Line, NUB-20.** Herman Yeger, Orna Mor, Gladys Pawlin, Chaim Kaplinsky, and Yosef Shiloh.
- 2803 **Determination of the DNA Content of a Six-Gene Amplicon in the Multidrug-resistant Chinese Hamster Cell Line CH^RB3 by Flow Karyotyping.** A. P. M. Jongsma, A. Riethorst, and J. A. Aten.
- *2808 **Bacterial *lacZ* Gene as a Highly Sensitive Marker to Detect Micrometastasis Formation during Tumor Progression.** Wen-chang Lin, Theresa P. Pretlow, Thomas G. Pretlow II, and Lloyd A. Culp.
- 2818 **Reversal of Multidrug Resistance by Verapamil and Modulation by α_1 -Acid Glycoprotein in Wild-type and Multidrug-resistant Chinese Hamster Ovary Cell Lines.** Mitali Chatterjee, Craig N. Robson, and Adrian L. Harris.
- *2823 **Murine Monoclonal Antibodies against Carcinoembryonic Antigen: Immunological, Pharmacokinetic, and Targeting Properties in Humans.** Robert M. Sharkey, David M. Goldenberg, Hildegard Goldenberg, Robert E. Lee, Cathy Ballance, David Pawlyk, Donald Varga, and Hans J. Hansen.
- 2832 **Suppression of Transformation by and Growth Adaptation to Low Concentrations of Glutamine in NIH-3T3 Cells.** Andrew L. Rubin.
- *2840 ***c-Ha-ras* Oncogene Expression in Immortalized Human Keratinocytes (HaCaT) Alters Growth Potential *in Vivo* but Lacks Correlation with Malignancy.** Petra Boukamp, Eric J. Stanbridge, Debra Yin Foo, Peter A. Cerutti, and Norbert E. Fusenig.
- *2848 **Inhibitory Effect of Testosterone on Gap Junctional Intercellular Communication of Human Transitional Cell Carcinoma Cell Lines.** Kazunori Kihara, Iwao Fukui, Yostuo Higashi, and Hiroyuki Oshima.

Meeting Report

- 2853 **Molecular Events in Mutation and Cancer: AACR Special Conference in Cancer Research.** Dinshaw Patel, Bea Singer, and Bernard S. Strauss.
- 2857 **Fourth Aspen Cancer Conference: Carcinogenesis—From Molecular Mechanisms to Molecular Epidemiology.** Raymond W. Tennant.
- 2859 **Announcements**
Eighty-first Annual Meeting of the AACR
Employment Register at the Annual Meeting
AACR Special Conferences in Cancer Research
Future Annual Meetings of the AACR
Calendar of Events
- 2862 **Author Index**

NOTE: AACR forms available in the back of this issue--
• Application for Active and Corresponding Membership
• Application for Associate Membership

Cancer Research

VOLUME 50 • NUMBER 9

CONTENTS Arranged by Subject Category

BASIC SCIENCES

Biochemistry and Biophysics

- 2577 Abrogation by Novobiocin of Cytotoxicity Due to the Topoisomerase II Inhibitor Amsacrine in Chinese Hamster Cells. H. Utsumi, M. L. Shibuya, T. Kosaka, W. E. Buddenbaum, and M. M. Elkind.
- 2631 Ultraviolet Radiation Induction of Ornithine Decarboxylase in Rat Keratinocytes. Cheryl F. Rosen, Dragan Gajic, and Daniel J. Drucker.
- 2753 Ca²⁺-dependent Binding of Tamoxifen to Calmodulin Isolated from Bovine Brain. M. Celeste F. Lopes, M. Graça P. Vale, and Arsélio P. Carvalho.

Carcinogenesis

- 2562 Chemoprevention of Colon Carcinogenesis by Concurrent Administration of Piroxicam, a Nonsteroidal Antiinflammatory Drug with D,L- α -Difluoromethylornithine, an Ornithine Decarboxylase Inhibitor, in Diet. Bandaru S. Reddy, Jayashree Nayini, Kenji Tokumo, Jeff Rigotty, Edith Zang, and Gary Kelloff.
- *2593 Defective Postreplication Repair in Xeroderma Pigmentosum Variant Fibroblasts. Jayne C. Boyer, William K. Kaufmann, Bruna P. Brylawski, and Marila Cordeiro-Stone.
- 2613 Effects of Indole-3-carbinol on Lung Tumorigenesis and DNA Methylation Induced by 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) and on the Metabolism and Disposition of NNK in A/J Mice. Mark A. Morse, Susan D. LaGreca, Shantu G. Amin, and Fung-Lung Chung.
- *2641 Metabolic Activation of Aflatoxin B₁ and 2-Amino-3-methylimidazo[4,5-f]quinoline by Human Adult and Fetal Livers. Mitsukazu Kitada, Masaki Taneda, Kazuhide Ohta, Kazuo Nagashima, Koshiro Itahashi, and Tetsuya Kamataki.
- 2679 Effects of Neonatal and Adult Castration and of Testosterone Substitution in Male Rats on Growth of Enzyme-altered Hepatic Foci in the Resistant Hepatocyte Model. Barbro Lindhe, Inger Porsch-Hällström, Jan-Åke Gustafsson, and Agneta Blanck.
- 2729 Androgen-dependent Renal Microsomal Cytochrome P-450 Responsible for N-Hydroxylation and Mutagenic Activation of 3-Methoxy-4-aminoazobenzene in the BALB/c Mouse. Masakuni Degawa, Shin-ichi Miura, and Yoshiyuki Hashimoto.
- *2747 Selectivity of Rat and Human Glutathione S-Transferases in Activation of Ethylene Dibromide by Glutathione Conjugation and DNA Binding and Induction of Unscheduled DNA Synthesis in Human Hepatocytes. Joan L. Cmarik, Philip B. Inskeep, Michael J. Meredith, David J. Meyer, Brian Ketterer, and F. Peter Guengerich.
- *2759 Accumulation of O⁶-Methylguanine in Human Blood Leukocyte DNA during Exposure to Procarbazine and Its Relationships with Dose and Repair. Vassilis L. Souliotis, Stella Kaila, Viki A. Boussiotis, Gerasimos A. Pangalis, and Soterios A. Kyrtopoulos.
- 2832 Suppression of Transformation by and Growth Adaptation to Low Concentrations of Glutamine in NIH-3T3 Cells. Andrew L. Rubin.

2840 c-Ha-ras Oncogene Expression in Immortalized Human Keratinocytes (HaCaT) Alters Growth Potential *in Vivo* but Lacks Correlation with Malignancy. Petra Boukamp, Eric J. Stanbridge, Debra Yin Foo, Peter A. Cerutti, and Norbert E. Fusenig.

*2848 Inhibitory Effect of Testosterone on Gap Junctional Intercellular Communication of Human Transitional Cell Carcinoma Cell Lines. Kazunori Kihara, Iwao Fukui, Yostuo Higashi, and Hiroyuki Oshima.

Endocrinology

- *2604 Effects of Progesterone on the Response to Epidermal Growth Factor and Other Growth Factors in Cultured Human Meningioma Cells. Jan W. Koper, John A. Foekens, R. Braakman, and Steven W. J. Lamberts.
- *2765 Effects of Tumor Necrosis Factor α on Skeletal Muscle and Walker 256 Carcinosarcoma Protein Metabolism Studied *in Vivo*. John A. Tayek and Jo Anne Brasel.

Immunology

- 2582 Inhibition of Tumor Cell Proliferation by Natural Suppressor Cells Present in Murine Bone Marrow. Kikuya Sugiura, Muneo Inaba, Hajime Ogata, Ryoji Yasumuzu, Evelio E. Sardiña, Kayo Inaba, Sho-ichi Kuma, Robert A. Good, and Susumu Ikehara.
- 2587 Solid-Phase Anti-CD3 Antibody Activation of Murine Tumor-infiltrating Lymphocytes. Anthony F. Massaro, Deric D. Schoof, Amy Rubinstein, Markus Zuber, Frank J. Leonard-Vidal, and Timothy J. Eberlein.
- *2636 Potentiation of Topoisomerase Inhibitor-induced DNA Strand Breakage and Cytotoxicity by Tumor Necrosis Factor: Enhancement of Topoisomerase Activity as a Mechanism of Potentiation. Teruhiro Utsugi, Michael R. Mattern, Christopher K. Mirabelli, and Nabil Hanna.
- *2654 The Down-Regulation of α -Interferon Receptors in Human Lymphoblastoid Cells: Relation to Cellular Responsiveness to the Antiproliferative Action of α -Interferon. Lawrence M. Pfeffer and David B. Donner.
- *2683 Natural Killer Cells Activated by Interleukin 2 Treatment *in Vivo* Respond to Interleukin 2 Primarily through the p75 Receptor and Maintain the p55 (TAC) Negative Phenotype. Gilda Weil-Hillman, Stephan D. Voss, Paul Fisch, Kathleen Schell, Jacquelyn A. Hank, Jeffrey A. Sosman, Kazuo Sugamura, and Paul M. Sondel.
- *2704 Identification of an Epitope Region of the Human Proliferation-associated Nucleolar Antigen P120. Benigno C. Valdez, Rose K. Busch, Robert G. Larson, and Harris Busch.
- *2708 Lymphokine-independent, Leukemia Cell-mediated Induction of Tumor Necrosis Factor in Human Monocytes. Tomoyuki Yamauchi, Terutaka Sagawa, Makoto Kanoh, and Sayaka Utsumi.
- *2823 Murine Monoclonal Antibodies against Carcinoembryonic Antigen: Immunological, Pharmacokinetic, and Targeting Properties in Humans. Robert M. Sharkey, David M. Goldenberg, Hildegard Goldenberg, Robert E. Lee, Cathy Ballance, David Pawlyk, Donald Varga, and Hans J. Hansen.

* Indicates studies using human-derived material.

- *2724 Frequent Loss of Heterozygosity on Chromosomes 6q, 11, and 17 in Human Ovarian Carcinomas. Je H. Lee, John J. Kavanagh, David M. Wildrick, J. Taylor Wharton, and Mark Blick.
- 2803 Determination of the DNA Content of a Six-Gene Amplicon in the Multidrug-resistant Chinese Hamster Cell Line CH²B3 by Flow Karyotyping. A. P. M. Jongsma, A. Riethorst, and J. A. Aten.

Preclinical Pharmacology and Experimental Therapeutics

- *2549 Decreased Accumulation as a Mechanism of Resistance to *cis*-Diamminedichloroplatinum(II) in Human Non-Small Cell Lung Cancer Cell Lines: Relation to DNA Damage and Repair. Masami Bungo, Yasuhiro Fujiwara, Kazuo Kasahara, Kazuhiko Nakagawa, Yuichiro Ohe, Yasutsuna Sasaki, Shozo Irino, and Nagahiro Saijo.
- *2618 Induction of Differentiation and DNA Strand Breakage in Human HL-60 and K-562 Leukemia Cells by Genistein. Andreas Constantinou, Kaoru Kiguchi, and Eliezer Huberman.
- 2625 Chemotherapeutic Characterization in Mice of 2-Amino-9- β -D-ribofuranosylpurine-6-sulfonamide (Sulfinosine), a Novel Purine Nucleoside with Unique Antitumor Properties. Thomas L. Avery, Rick A. Finch, Karen M. Vasquez, Saeed Radparvar, Naem B. Hanna, Ganapathi R. Revankar, and Roland K. Robins.
- 2646 Treatment of R-3327 Prostate Tumors with a Somatostatin Analogue (Somatuline) as Adjuvant Therapy following Surgical Castration. Arthur E. Bogden, John E. Taylor, Jacques-Pierre Moreau, and David H. Coy.
- *2658 Effects of 1- β -D-Arabinofuranosylcytosine on DNA Replication Intermediates Monitored by pH-Step Alkaline Elution. Douglas D. Ross, Shu-Rung Serena Chen, and Dennis P. Cuddy.
- *2692 Pharmacokinetic and Toxicity Scaling of the Antitumor Agents Amsacrine and CI-921, a New Analogue, in Mice, Rats, Rabbits, Dogs, and Humans. James W. Paxton, Sang N. Kim, and Lloyd R. Whitfield.
- 2713 Mechanism of Epipodophyllotoxin-induced Cell Death in Poly(Adenosine Diphosphate-Ribose) Synthesis-deficient V79 Chinese Hamster Cell Lines. Satadal Chatterjee, Divyang Trivedi, Shirley J. Petzold, and Nathan A. Berger.
- 2719 Effect of Hypoxia on 1,3-Bis(2-chloroethyl)-1-nitrosourea Cytotoxicity in 9L Cells. Aparajita Sarkar, Jih-Tsun Ho, Laurence J. Marton, and Dennis F. Deen.
- 2734 Addition of 2-Nitroimidazole Radiosensitizers to *cis*-Diamminedichloroplatinum(II) with Radiation and with or without Hyperthermia in the Murine FSaIIc Fibrosarcoma. Terence S. Herman, Beverly A. Teicher, Sylvia A. Holden, M. Raphael Pfeffer, and Steven M. Jones.
- *2769 Effect of α -Difluoromethylornithine on 1,3-Bis(2-chloroethyl)-1-nitrosourea and *cis*-Diamminedichloroplatinum(II) Cytotoxicity, DNA Interstrand Cross-Linking, and Growth in Human Brain Tumor Cell Lines *in Vitro*. Karl J. Hunter, Dennis F. Deen, Malgorzata Pellarin, and Laurence J. Marton.
- *2781 Development and Characterization of Pediatric Osteosarcoma Xenografts. William H. Meyer, Janet A. Houghton, Peter J. Houghton, Bruce L. Webber, Edwin C. Douglass, and A. Thomas Look.
- 2818 Reversal of Multidrug Resistance by Verapamil and Modulation by α_1 -Acid Glycoprotein in Wild-type and Multidrug-resistant Chinese Hamster Ovary Cell Lines. Mitali Chatterjee, Craig N. Robson, and Adrian L. Harris.

- 2599 Role of Thromboxane and Prostacyclin Release on Photodynamic Therapy-induced Tumor Destruction. Victor H. Fingar, T. Jeffery Wieman, and Karola Weber Doak.
- *2673 Stimulation of Tumor Necrosis Factor Release from Monocytic Cells by the A375 Human Melanoma via Granulocyte-Macrophage Colony-stimulating Factor. Massimo Sabatini, Jeffery Chavez, Gregory R. Mundy, and Lynda F. Bonewald.
- *2773 Characteristics of Cell Lines Established from Human Gastric Carcinoma. Jae-Gahb Park, Harold Frucht, Renato V. LaRocca, David P. Bliss, Jr., Yukio Kurita, Tchaw-Ren Chen, Jerry G. Henslee, Jane B. Trepel, Robert T. Jensen, Bruce E. Johnson, Young-Jue Bang, Jin-Pok Kim, and Adi F. Gazdar.
- *2786 Chromosome Analysis of 31 Wilms' Tumors. Sheng Wang-Wuu, Shirley Soukup, Kevin Bove, Betsy Gotwals, and Beatrice Lampkin.
- *2794 Importance of Phenotypic and Molecular Characterization for Identification of a Neuroepithelioma Tumor Cell Line, NUB-20. Herman Yeger, Orna Mor, Gladys Pawlin, Chaim Kaplinsky, and Yosef Shiloh.
- *2808 Bacterial *lacZ* Gene as a Highly Sensitive Marker to Detect Micrometastasis Formation during Tumor Progression. Wen-chang Lin, Theresa P. Pretlow, Thomas G. Pretlow II, and Lloyd A. Culp.

Virology

- 2554 Characteristics of Potential Lymphoma-inducing Cells in Mice Sensitive or Resistant to Lymphomagenesis by Radiation Leukemia Virus Variants. Irina Gokhman, Alpha Peled, and Nechama Haran-Ghera.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical

- 2651 Labeling Index and Labeling Distribution of Cells in Esophageal Epithelium of Individuals at Increased Risk for Esophageal Cancer in Huixian, China. Li Dong Wang, Martin Lipkin, Song Liang Qui, Guan Rui Yang, Chung S. Yang, and Harold L. Newmark.
- 2667 Phase I Trial of 5-Fluorouracil and Dipyridamole Administered by Seventy-two-Hour Concurrent Continuous Infusion. Scot C. Remick, Jean L. Grem, Paul H. Fischer, Kendra D. Tutsch, Dona B. Alberti, Lavonne M. Nieting, Mary B. Tombes, Joan Bruggink, James K. V. Willson, and Donald L. Trump.

Epidemiological

- 2569 Life-Style, Workplace, and Stomach Cancer by Subsite in Young Men of Los Angeles County. Anna H. Wu-Williams, Mimi C. Yu, and Thomas M. Mack.
- 2608 Gestational and Familial Risk Factors for Childhood Astrocytoma: Results of a Case-Control Study. René R. Kuijten, Greta R. Bunin, Catharine C. Nass, and Anna T. Meadows.
- 2698 Chromosome Abnormalities in Malignant Lymphoma in Patients from Kurashiki: Histological and Immunophenotypic Correlations. Hiroshi Konishi, Masaharu Sakurai, Hatsue Nakao, Nobuo Maseki, Yasuhiko Kaneko, Yoshio Yagiri, Kenji Notohara, and Glauco Frizzera.

2741 **Leukemia following Chemotherapy for Breast Cancer.** Rochelle E. Curtis, John D. Boice, Jr., William C. Moloney, Lynn Gloeckler Ries, and John T. Flannery.

Meeting Report

2853 **Molecular Events in Mutation and Cancer: AACR Special Conference in Cancer Research.** Dinshaw Patel, Bea Singer, and Bernard S. Strauss.

2857 **Fourth Aspen Cancer Conference: Carcinogenesis—From Molecular Mechanisms to Molecular Epidemiology.** Raymond W. Tennant.

2859 **Announcements**

Eighty-first Annual Meeting of the AACR
Employment Register at the Annual Meeting
AACR Special Conferences in Cancer Research
Future Annual Meetings of the AACR
Calendar of Events

2862 **Author Index**

NOTE: AACR forms available in the back of this issue--

- **Application for Active and Corresponding Membership**
- **Application for Associate Membership**

Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

50 (9)

Cancer Res 1990;50:2549-2861.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/50/9.citation>

E-mail alerts [Sign up to receive free email-alerts](#) related to this article or journal.

Reprints and Subscriptions To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions To request permission to re-use all or part of this article, use this link <http://cancerres.aacrjournals.org/content/50/9.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.