



CONTENTS§

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

- *5449 Loss of Heterozygosity for Loci on the Long Arm of Chromosome 6 in Human Malignant Melanoma. D. Millikin, E. Meese, B. Vogelstein, C. Witkowski, and J. Trent.
- *5454 Potentiation of Mitomycin C and Porfirimycin Antitumor Activity in Solid Tumor Models by Recombinant Human Interleukin 1 α . Paul G. Braunschweiger, Steven A. Jones, Candace S. Johnson, and Philip Furmanski.
- *5461 Pharmacokinetics and Immune Response of ¹³¹I-Chimeric Mouse/Human B72.3 (Human γ 4) Monoclonal Antibody in Humans. M. B. Khazaeli, Mansoor N. Saleh, T. P. Liu, Ruby F. Meredith, Richard H. Wheeler, Terry S. Baker, David King, David Secher, Laquetta Allen, Kim Rogers, David Colcher, Jeffrey Schlom, Dan Shochat, and Albert F. LoBuglio.
- 5467 Pharmacokinetics of Pyrazoloacridine in the Rhesus Monkey. Stacey L. Berg, Frank M. Balis, Cynthia L. McCully, Karen S. Godwin, and David G. Poplack.
- *5471 Epidermal Growth Factor Receptor-reactive Monoclonal Antibodies: Xenograft Antitumor Activity Alone and as Drug Immunoconjugates. Magda C. Gutowski, Stephen L. Briggs, and David A. Johnson.
- *5476 Transforming Growth Factor Gene Expression in Human Endometrial Adenocarcinoma Cells: Regulation by Progestins. Yuewen Gong, Yuzuru Anzai, Leigh C. Murphy, Gustavo Ballejo, Christian F. Holinka, Erlio Gorpide, and Liam J. Murphy.
- 5482 17p Allelic Deletions and p53 Protein Overexpression in Barrett's Adenocarcinoma. Patricia L. Blount, Stig Ramel, Wendy H. Raskind, Rodger C. Haggitt, Carissa A. Sanchez, Patrick J. Dean, Peter S. Rabinovitch, and Brian J. Reid.
- 5487 Tumor-promoting Effect of Urinary Epidermal Growth Factor in Rat Urinary Bladder Carcinogenesis. Hitoshi Momose, Hiroaki Kakinuma, Sabecha Y. Shariff, Glen B. Mitchell, Alfred Rademaker, and Ryoichi Oyasu.
- *5491 Differential Expression of Transforming Growth Factor- β 1 Gene in 3LL Metastatic Variants. Danilo Perrotti, Letizia Cimino, Sergio Ferrari, and Ada Sacchi.
- 5495 Quantitation of Microsomal α -Hydroxylation of the Tobacco-specific Nitrosamine, 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone. Lisa A. Peterson, Rachel Mathew, and Stephen S. Hecht.
- 5501 Protection against Aflatoxin B₁-induced Hepatocarcinogenesis in F344 Rats by 5-(2-Pyrazinyl)-4-methyl-1,2-dithiole-3-thione (Oltipraz): Predictive Role for Short-Term Molecular Dosimetry. B. D. Roebuck, Yi-Liang Liu, Adrienne E. Rogers, John D. Groopman, and Thomas W. Kensler.
- 5507 Membrane Transport of Natural Folates and Antifolate Compounds in Murine L1210 Leukemia Cells: Role of Carrier- and Receptor-mediated Transport Systems. G. Robbin Westerhof, Gerrit Jansen, Nancy van Emmerik, Ietje Kathmann, Gert Rijksen, Ann L. Jackman, and Jan H. Schornagel.
- *5514 *c-myc* Gene-induced Alterations in Protein Kinase C Expression: A Possible Mechanism Facilitating *myc-ras* Gene Complementation. Linda F. Barr, Mack Mabry, Barry D. Nelkin, Greg Tyler, W. Stratford May, and Stephen B. Baylin.
- *5520 Aberrations of the Tumor Suppressor p53 and Retinoblastoma Genes in Human Hepatocellular Carcinomas. Yoshinori Murakami, Kenshi Hayashi, Setsuo Hirohashi, and Takao Sekiya.
- *5526 Down-regulation by Interleukin 4 of Activation of Human Alveolar Macrophages to the Tumoricidal State. Yasuhiko Nishioka, Saburo Sone, Etsuko Orino, Akihiko Nii, and Takeshi Ogura.
- *5532 Effects of Recombinant α -Interferon-Gelatin Conjugate on *in Vivo* Murine Tumor Cell Growth. Yasuhiko Tabata, Kazuko Uno, Tetsuji Yamaoka, Yoshito Ikada, and Shigeru Muramatsu.
- *5539 Human Fibroblasts Contain a Proteolytic Activity Which Is Inhibited by the Bowman-Birk Protease Inhibitor. Paul C. Billings, Joan M. Habres, David C. Liao, and Stephen W. Tuttle.
- 5544 Insensitivity to the Cytolytic Effects of Glucocorticoids *in Vivo* Is Associated with a Novel "Slow Death" Phenotype. E. Aubrey Thompson.
- 5551 Glucocorticoid Insensitivity of P1798 Lymphoma Cells Is Associated with Production of a Factor That Attenuates the Lytic Response. E. Aubrey Thompson.
- 5557 *O*⁶-Methylguanine Is a Critical Determinant of 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone Tumorigenesis in A/J Mouse Lung. Lisa A. Peterson and Stephen S. Hecht.
- *5565 T-Cell Receptor V β Gene Expression Differs in Tumor-infiltrating Lymphocytes within Primary and Metastatic Melanoma. Taizo Nitta, Robert Bell, Ko Okumura, Kiyoshi Sato, and Lawrence Steinman.
- *5570 On the Pharmacokinetics of 2-Chloro-2'-deoxyadenosine in Humans. Jan Liliemark and Gunnar Juliusson.
- 5573 Inhibition of Murine Transformed Leydig Cell Proliferation by Leukotrienes in Serum-free Culture. Kazumasa Nishii, Yasuko Nishizawa, Yoshio Nishizawa, Keishi Matsumoto, and Bunzo Sato.
- 5579 ICI D1694, a Quinazoline Antifolate Thymidylate Synthase Inhibitor That Is a Potent Inhibitor of L1210 Tumor Cell Growth *in Vitro* and *in Vivo*: A New Agent for Clinical Study. Ann L. Jackman, Gordon A. Taylor, William Gibson, Rosemary Kimbell, Melody Brown, A. Hilary Calvert, Ian R. Judson, and Leslie R. Hughes.
- *5587 Induction of Tissue-type Plasminogen Activator by Ionizing Radiation in Human Malignant Melanoma Cells. David A. Boothman, Meizhi Wang, and Sam W. Lee.
- *5596 Phenotype and Function of Natural Killer Cells in Patients with Bronchogenic Carcinoma. Ann V. LeFever and Akira Funahashi.
- *5602 Increased Serum Levels of Soluble Receptors for Tumor Necrosis Factor in Cancer Patients. Dan Aderka, Hartmut Engelmann, Vered Hornik, Yehuda Skornick, Yoram Levo, David Wallach, and Gil Kushtai.

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

- 5608 Dietary Calcium and Vitamin D Modulate 1,2-Dimethylhydrazine-induced Colonic Carcinogenesis in the Rat. Michael D. Sitrin, Allan G. Halline, Cyril Abrahams, and Thomas A. Brasitus.
- *5614 Use and Mechanism of Action of AS101 in Protecting Bone Marrow Colony Forming Units-Granulocyte-Macrophage Following Purgings with ASTA-Z 7557. Yona Kalechman, Iris Sotnik Barkai, Michael Albeck, Gary Horwith, Suren N. Sehagl, and Benjamin Sredni.
- *5621 Association between Hepatitis C Virus Antibodies and Hepatocellular Carcinoma in Taiwan. Ming-Whei Yu, San-Lin You, Ah-Seng Chang, Shang-Nan Lu, Yun-Fang Liaw, and Chien-Jen Chen.
- *5626 Structure and Expression of the β -Platelet-derived Growth Factor Receptor Gene in Human Tumor Cell Lines. Rajesh Malik, Mohan Gope, Richard B. Womer, Thandavarayan Nagashunmugam, Judith F. Margolin, Amitabha Basu, and Charles D. Scher.
- *5632 Allelic Loss on Chromosome 17p and p53 Mutations in Human Endometrial Carcinoma of the Uterus. Aikou Okamoto, Yuichi Sameshima, Yukishige Yamada, Shin-ichi Teshima, Yoshiteru Terashima, Masaaki Terada, and Jun Yokota.
- 5636 Formation and Persistence of DNA Adducts of 2-Amino-3-methylimidazo[4,5-f]quinoline in Male Fischer-344 Rats. Hong-Xiang Zu and Herman A. J. Schut.
- 5642 Tumor-promoting Activity of Ethyl Phenylpropionate. Gregory S. Cameron, James K. Baldwin, Richard C. Klann, Kelly E. Patrick, and Susan M. Fischer.
- 5649 Frequent Induction of Mammary Carcinomas following *neu* Oncogene Transfer into *in Situ* Mammary Epithelial Cells of Susceptible and Resistant Rat Strains. Bingcheng Wang, Wendy S. Kennan, Jane Yasukawa-Barnes, Mary J. Lindstrom, and Michael N. Gould.
- 5655 Forestomach and Kidney Carcinogenicity of Caffeic Acid in F344 Rats and C57BL/6N \times C3H/HeN F₁ Mice. Akihiro Hagiwara, Masao Hirose, Satoru Takahashi, Kumiko Ogawa, Tomoyuki Shirai, and Nobuyuki Ito.
- *5661 Extracellular Matrix and the Patterns of Differentiation of Human Endometrial Carcinomas *in Vitro* and *in Vivo*. P. G. Satyaswaroop and S. S. Tabibzadeh.
- *5667 Evaluation of Nontumorous Tissue Damage by Transcatheter Arterial Embolization for Hepatocellular Carcinoma. Khaleque Newaz Khan, Keisuke Nakata, Yukio Kusumoto, Masayoshi Shima, Nobuko Ishii, Toshihiko Koji, and Shigenobu Nagataki.
- *5672 Laminin Receptor Complementary DNA-deduced Synthetic Peptide Inhibits Cancer Cell Attachment to Endothelium. Vincent Castronovo, Giulia Tarabozetti, and Mark E. Sobel.
- *5679 Carcinoembryonic Antigen Has a Different Molecular Weight in Normal Colon and in Cancer Cells due to *N*-Glycosylation Differences. M. Garcia, C. Seigner, C. Bastid, R. Choux, M. J. Payan, and H. Reggio.
- *5687 Interleukin 4 Alone and with γ -Interferon or α -Tumor Necrosis Factor Inhibits Cell Growth and Modulates Cell Surface Antigens on Human Renal Cell Carcinomas. Dave S. B. Hoon, Edward Okun, Marienelle Banez, Reiko F. Irie, and Donald L. Morton.
- *5694 Identification of a Novel Tumor-associated *M*, 110,000 Gene Product in Human Gastric Carcinoma Cells That Is Immunologically Related to Carcinoembryonic Antigen. Shinya Shimada, Michio Ogawa, Jeffrey Schlom, and John W. Greiner.
- *5704 Comparison of Immunoscintigraphy and Computerized Tomography in Identifying Colorectal Cancer: Individual Lesion Analysis. Raffael M. Corbisiero, Dave M. Yamauchi, Lawrence E. Williams, Jose M. Esteban, Tamara Odom-Maryon, and J. David Beatty.
- *5712 Human Malignant Histiocytosis CD30+ DEL Cell Line Differentiates into Macrophage-like Cells When Treated with a Phorbol Diester. Jean Gogusev, Sylvette Barbey, and Christian Nezelof.
- *5716 Human T-Lymphocytes Targeted against an Established Human Ovarian Carcinoma with a Bispecific F(ab')₂ Antibody Prolong Host Survival in a Murine Xenograft Model. Delia Mezzanzanica, Maria A. Garrido, Donald S. Neblock, Peter E. Daddona, Sarah M. Andrew, Vincent R. Zurawski, Jr., David M. Segal, and John R. Wunderlich.
- *5722 Androgen Sensitivity of the New Human Breast Cancer Cell Line MFM-223. Reinhard Hackenberg, Susanne Lüttchens, Jürgen Hofmann, Regina Kunzmann, Fritz Hölzel, and Klaus-Dieter Schulz.
- *5728 Human Colonic Sulfomucin Identified by a Specific Monoclonal Antibody. Tatsuro Irimura, Dianna M. Wynn, Leah G. Hager, Karen R. Cleary, and David M. Ota.
- *5736 Inactivation of the Retinoblastoma Gene in Human Bladder and Renal Cell Carcinomas. Jiro Ishikawa, Hong-Ji Xu, Shi-Xue Hu, David W. Yandell, Sakan Maeda, Sadao Kamidono, William F. Benedict, and Rei Takahashi.
- *5744 Immunohistochemical and Pharmacokinetic Characterization of Site-specific Immunoconjugate 15A8-Glycyl-tyrosyl-(*N*- ϵ -diethylenetriamine pentaacetic acid)-lysine Derived from Anti-Breast Carcinoma Monoclonal Antibody 15A8. Maurice J. Rosenstrauss, Wendy L. Davis, A. Dwight Lopes, Christopher J. D'Aleo, and Steven C. Gilman.
- 5752 Phenotypic Characterization of Metaplastic Intestinal Glands and Ductular Hepatocytes in Cholangiofibrotic Lesions Rapidly Induced in the Caudate Liver Lobe of Rats Treated with Furan. Lynne W. Elmore and Alphonse E. Sirica.
- *5760 Acidic and Basic Fibroblast Growth Factors Are Present in Glioblastoma Multiforme. David F. Stefanik, Laila R. Rizkalla, Anuradha Soi, Sidney A. Goldblatt, and Waheeb M. Rizkalla.

Advances in Brief

- *5766 Frequent Loss of Heterozygosity at the Retinoblastoma Locus in Human Esophageal Cancers. Robert F. Boynton, Ying Huang, Patricia L. Blount, Brian J. Reid, Wendy H. Raskind, Rodger C. Haggitt, Carnell Newkirk, James H. Resau, Jing Yin, Tim McDaniel, and Stephen J. Meltzer.
- 5770 pH Dependence of 5-Fluorouracil Uptake Observed by *in Vivo* ³¹P and ¹⁹F Nuclear Magnetic Resonance Spectroscopy. Jean-Luc Guerquin-Kern, François Leteurtre, Alain Croisy, and Jean-Marc Lhoste.
- 5774 Induction of Immunogenicity of Monoclonal Antibodies by Conjugation with Drugs. David A. Johnson, Russell L. Barton, Daniel V. Fix, William L. Scott, and Magda C. Gutowski.
-
- 5777 Announcements
Eighty-Third Annual Meeting of the AACR
AACR Special Conferences in Cancer Research
Future Annual Meetings of the AACR
Calendar of Events
- 5780 Author Index

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

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

Also available in the back of this issue—
GUIDELINES FOR SUBMITTING DISKS TO
AACR PUBLICATIONS

Cancer Research

VOLUME 51 • NUMBER 20

CONTENTS Arranged by Subject Category

Advances in Brief

- *5766 **Frequent Loss of Heterozygosity at the Retinoblastoma Locus in Human Esophageal Cancers.** Robert F. Boynton, Ying Huang, Patricia L. Blount, Brian J. Reid, Wendy H. Raskind, Rodger C. Haggitt, Carnell Newkirk, James H. Resau, Jing Yin, Tim McDaniel, and Stephen J. Meltzer.
- 5770 **pH Dependence of 5-Fluorouracil Uptake Observed by *in Vivo* ³¹P and ¹⁹F Nuclear Magnetic Resonance Spectroscopy.** Jean-Luc Guerquin-Kern, François Leteurre, Alain Croisy, and Jean-Marc Lhoste.
- 5774 **Induction of Immunogenicity of Monoclonal Antibodies by Conjugation with Drugs.** David A. Johnson, Russell L. Barton, Daniel V. Fix, William L. Scott, and Magda C. Gutowski.

BASIC SCIENCES

Biochemistry and Biophysics

- *5539 **Human Fibroblasts Contain a Proteolytic Activity Which Is Inhibited by the Bowman-Birk Protease Inhibitor.** Paul C. Billings, Joan M. Habres, David C. Liao, and Stephen W. Tuttle.

Carcinogenesis

- 5487 **Tumor-promoting Effect of Urinary Epidermal Growth Factor in Rat Urinary Bladder Carcinogenesis.** Hitoshi Momose, Hiroaki Kakinuma, Sabeeha Y. Shariff, Glen B. Mitchell, Alfred Rademaker, and Ryoichi Oyasu.
- 5495 **Quantitation of Microsomal α -Hydroxylation of the Tobacco-specific Nitrosamine, 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone.** Lisa A. Peterson, Rachel Mathew, and Stephen S. Hecht.
- 5501 **Protection against Aflatoxin B₁-induced Hepatocarcinogenesis in F344 Rats by 5-(2-Pyrazinyl)-4-methyl-1,2-dithiole-3-thione (Oltipraz): Predictive Role for Short-Term Molecular Dosimetry.** B. D. Roebuck, Yi-Liang Liu, Adrienne E. Rogers, John D. Groopman, and Thomas W. Kensler.
- 5557 **O⁶-Methylguanine Is a Critical Determinant of 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone Tumorigenesis in A/J Mouse Lung.** Lisa A. Peterson and Stephen S. Hecht.
- 5608 **Dietary Calcium and Vitamin D Modulate 1,2-Dimethylhydrazine-induced Colonic Carcinogenesis in the Rat.** Michael D. Sitrin, Allan G. Halline, Cyril Abrahams, and Thomas A. Brasitus.
- 5636 **Formation and Persistence of DNA Adducts of 2-Amino-3-methylimidazo[4,5-f]quinoline in Male Fischer-344 Rats.** Hong-Xiang Zu and Herman A. J. Schut.
- 5642 **Tumor-promoting Activity of Ethyl Phenylpropionate.** Gregory S. Cameron, James K. Baldwin, Richard C. Klann, Kelly E. Patrick, and Susan M. Fischer.
- 5655 **Forestomach and Kidney Carcinogenicity of Caffeic Acid in F344 Rats and C57BL/6N \times C3H/HeN F₁ Mice.** Akihiro Hagiwara, Masao Hirose, Satoru Takahashi, Kumiko Ogawa, Tomoyuki Shirai, and Nobuyuki Ito.

- 5752 **Phenotypic Characterization of Metaplastic Intestinal Glands and Ductular Hepatocytes in Cholangiofibrotic Lesions Rapidly Induced in the Caudate Liver Lobe of Rats Treated with Furan.** Lynne W. Elmore and Alphonse E. Sirica.

Endocrinology

- *5476 **Transforming Growth Factor Gene Expression in Human Endometrial Adenocarcinoma Cells: Regulation by Progestins.** Yuewen Gong, Yuzuru Anzai, Leigh C. Murphy, Gustavo Ballejo, Christian F. Holinka, Erlio Gurpide, and Liam J. Murphy.
- 5544 **Insensitivity to the Cytolytic Effects of Glucocorticoids *in Vivo* Is Associated with a Novel "Slow Death" Phenotype.** E. Aubrey Thompson.
- 5551 **Glucocorticoid Insensitivity of P1798 Lymphoma Cells Is Associated with Production of a Factor That Attenuates the Lytic Response.** E. Aubrey Thompson.
- 5573 **Inhibition of Murine Transformed Leydig Cell Proliferation by Leukotrienes in Serum-free Culture.** Kazumasa Nishii, Yasuko Nishizawa, Yoshio Nishizawa, Keishi Matsumoto, and Bunzo Sato.

Immunology

- *5461 **Pharmacokinetics and Immune Response of ¹³¹I-Chimeric Mouse/Human B72.3 (Human γ 4) Monoclonal Antibody in Humans.** M. B. Khazaeli, Mansoor N. Saleh, T. P. Liu, Ruby F. Meredith, Richard H. Wheeler, Terry S. Baker, David King, David Secher, Laquetta Allen, Kim Rogers, David Colcher, Jeffrey Schlom, Dan Shochat, and Albert F. LoBuglio.
- *5526 **Down-regulation by Interleukin 4 of Activation of Human Alveolar Macrophages to the Tumoricidal State.** Yasuhiko Nishioka, Saburo Sone, Etsuko Orino, Akihiko Nii, and Takeshi Ogura.
- *5565 **T-Cell Receptor V β Gene Expression Differs in Tumor-infiltrating Lymphocytes within Primary and Metastatic Melanoma.** Taizo Nitta, Robert Bell, Ko Okumura, Kiyoshi Sato, and Lawrence Steinman.
- *5596 **Phenotype and Function of Natural Killer Cells in Patients with Bronchogenic Carcinoma.** Ann V. LeFever and Akira Funahashi.
- *5602 **Increased Serum Levels of Soluble Receptors for Tumor Necrosis Factor in Cancer Patients.** Dan Aderka, Hartmut Engelmann, Vered Hornik, Yehuda Skornick, Yoram Levo, David Wallach, and Gil Kushtai.
- *5694 **Identification of a Novel Tumor-associated M_r 110,000 Gene Product in Human Gastric Carcinoma Cells That Is Immunologically Related to Carcinoembryonic Antigen.** Shinya Shimada, Michio Ogawa, Jeffrey Schlom, and John W. Greiner.
- *5716 **Human T-Lymphocytes Targeted against an Established Human Ovarian Carcinoma with a Bispecific F(ab')₂ Antibody Prolong Host Survival in a Murine Xenograft Model.** Delia Mezzanzanica, Maria A. Garrido, Donald S. Neblock, Peter E. Daddona, Sarah M. Andrew, Vincent R. Zurawski, Jr., David M. Segal, and John R. Wunderlich.
- *5728 **Human Colonic Sulfomucin Identified by a Specific Monoclonal Antibody.** Tatsuro Irimura, Dianna M. Wynn, Leah G. Hager, Karen R. Cleary, and David M. Ota.

* Indicates studies using human-derived material.

- * 5744 Immunohistochemical and Pharmacokinetic Characterization of Site-specific Immunoconjugate 15A8-Glycyl-tyrosyl-(N-ε-diethyl-ε-tryptamine pentaacetic acid)-lysine Derived from Anti-Breast Carcinoma Monoclonal Antibody 15A8. Maurice J. Rosenstrauss, Wendy L. Davis, A. Dwight Lopes, Christopher J. D'Aleo, and Steven C. Gilman.

Molecular Biology and Genetics

- * 5449 Loss of Heterozygosity for Loci on the Long Arm of Chromosome 6 in Human Malignant Melanoma. D. Millikin, E. Meese, B. Vogelstein, C. Witkowski, and J. Trent.
- 5482 17p Allelic Deletions and p53 Protein Overexpression in Barrett's Adenocarcinoma. Patricia L. Blount, Stig Ramel, Wendy H. Raskind, Rodger C. Haggitt, Carissa A. Sanchez, Patrick J. Dean, Peter S. Rabinovitch, and Brian J. Reid.
- * 5514 c-myc Gene-induced Alterations in Protein Kinase C Expression: A Possible Mechanism Facilitating myc-ras Gene Complementation. Linda F. Barr, Mack Mabry, Barry D. Nelkin, Greg Tyler, W. Stratford May, and Stephen B. Baylin.
- * 5520 Aberrations of the Tumor Suppressor p53 and Retinoblastoma Genes in Human Hepatocellular Carcinomas. Yoshinori Murakami, Kenshi Hayashi, Setsuo Hirohashi, and Takao Sekiya.
- * 5587 Induction of Tissue-type Plasminogen Activator by Ionizing Radiation in Human Malignant Melanoma Cells. David A. Boothman, Meizhi Wang, and Sam W. Lee.
- * 5626 Structure and Expression of the β-Platelet-derived Growth Factor Receptor Gene in Human Tumor Cell Lines. Rajesh Malik, Mohan Gope, Richard B. Womer, Thandavarayan Nagashunmugam, Judith F. Margolin, Amitabha Basu, and Charles D. Scher.
- * 5632 Allelic Loss on Chromosome 17p and p53 Mutations in Human Endometrial Carcinoma of the Uterus. Aikou Okamoto, Yuichi Sameshima, Yukishige Yamada, Shin-ichi Teshima, Yoshiteru Terashima, Masaaki Terada, and Jun Yokota.
- 5649 Frequent Induction of Mammary Carcinomas following *neu* Oncogene Transfer into *in Situ* Mammary Epithelial Cells of Susceptible and Resistant Rat Strains. Bingcheng Wang, Wendy S. Kennan, Jane Yasukawa-Barnes, Mary J. Lindstrom, and Michael N. Gould.
- * 5736 Inactivation of the Retinoblastoma Gene in Human Bladder and Renal Cell Carcinomas. Jiro Ishikawa, Hong-Ji Xu, Shi-Xue Hu, David W. Yandell, Sakan Maeda, Sadao Kamidono, William F. Benedict, and Rei Takahashi.

Preclinical Pharmacology and Experimental Therapeutics

- * 5454 Potentiation of Mitomycin C and Porfiriomycin Antitumor Activity in Solid Tumor Models by Recombinant Human Interleukin 1α. Paul G. Braunschweiger, Steven A. Jones, Candace S. Johnson, and Philip Furmanski.
- 5467 Pharmacokinetics of Pyrazoloacridine in the Rhesus Monkey. Stacey L. Berg, Frank M. Balis, Cynthia L. McCully, Karen S. Godwin, and David G. Poplack.
- * 5471 Epidermal Growth Factor Receptor-reactive Monoclonal Antibodies: Xenograft Antitumor Activity Alone and as Drug Immunoconjugates. Magda C. Gutowski, Stephen L. Briggs, and David A. Johnson.
- 5507 Membrane Transport of Natural Foliates and Antifolate Compounds in Murine L1210 Leukemia Cells: Role of Carrier- and Receptor-mediated Transport Systems. G. Robbin Westerhof, Gerrit Jansen, Nancy van Emmerik, Ietje Kathmann, Gert Rijkse, Ann L. Jackman, and Jan H. Schornagel.

- * 5532 Effects of Recombinant α-Interferon-Gelatin Conjugate on *in Vivo* Murine Tumor Cell Growth. Yasuhiko Tabata, Kazuko Uno, Tetsuji Yamaoka, Yoshito Ikada, and Shigeru Muramatsu.

- 5579 ICI D1694, a Quinazoline Antifolate Thymidylate Synthase Inhibitor That Is a Potent Inhibitor of L1210 Tumor Cell Growth *in Vitro* and *in Vivo*: A New Agent for Clinical Study. Ann L. Jackman, Gordon A. Taylor, William Gibson, Rosemary Kimbell, Melody Brown, A. Hilary Calvert, Ian R. Judson, and Leslie R. Hughes.

Tumor Biology

- * 5491 Differential Expression of Transforming Growth Factor-β1 Gene in 3LL Metastatic Variants. Danilo Perrotti, Letizia Cimino, Sergio Ferrari, and Ada Sacchi.
- * 5614 Use and Mechanism of Action of AS101 in Protecting Bone Marrow Colony Forming Units-Granulocyte-Macrophage following Purging with ASTA-Z 7557. Yona Kalechman, Iris Sotnik Barkai, Michael Albeck, Gary Horwith, Suren N. Sehagl, and Benjamin Sredni.
- * 5661 Extracellular Matrix and the Patterns of Differentiation of Human Endometrial Carcinomas *in Vitro* and *in Vivo*. P. G. Satyaswaroop and S. S. Tabibzadeh.
- * 5672 Laminin Receptor Complementary DNA-deduced Synthetic Peptide Inhibits Cancer Cell Attachment to Endothelium. Vincent Castronovo, Giulia Tarabozetti, and Mark E. Sobel.
- * 5679 Carcinoembryonic Antigen Has a Different Molecular Weight in Normal Colon and in Cancer Cells due to N-Glycosylation Differences. M. Garcia, C. Seigner, C. Bastid, R. Choux, M. J. Payan, and H. Reggio.
- * 5687 Interleukin 4 Alone and with γ-Interferon or α-Tumor Necrosis Factor Inhibits Cell Growth and Modulates Cell Surface Antigens on Human Renal Cell Carcinomas. Dave S. B. Hoon, Edward Okun, Marienelle Banez, Reiko F. Irie, and Donald L. Morton.
- * 5712 Human Malignant Histiocytosis CD30+ DEL Cell Line Differentiates into Macrophage-like Cells When Treated with a Phorbol Diester. Jean Gogusev, Sylvette Barbey, and Christian Nezelof.
- * 5722 Androgen Sensitivity of the New Human Breast Cancer Cell Line MFM-223. Reinhard Hackenberg, Susanne Lüttchens, Jürgen Hofmann, Regina Kunzmann, Fritz Hölzel, and Klaus-Dieter Schulz.
- * 5760 Acidic and Basic Fibroblast Growth Factors Are Present in Glioblastoma Multiforme. David F. Stefanik, Laila R. Rizkalla, Anuradha Soi, Sidney A. Goldblatt, and Waheeb M. Rizkalla.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical

- 5570 On the Pharmacokinetics of 2-Chloro-2'-deoxyadenosine in Humans. Jan Liliemark and Gunnar Juliusson.
- 5667 Evaluation of Nontumorous Tissue Damage by Transcatheter Arterial Embolization for Hepatocellular Carcinoma. Khaleque Newaz Khan, Keisuke Nakata, Yukio Kusumoto, Masayoshi Shima, Nobuko Ishii, Toshihiko Koji, and Shigenobu Nagataki.
- 5704 Comparison of Immunoscintigraphy and Computerized Tomography in Identifying Colorectal Cancer: Individual Lesion Analysis. Raffael M. Corbisiero, Dave M. Yamauchi, Lawrence E. Williams, Jose M. Esteban, Tamara Odom-Maryon, and J. David Beatty.

- 5621 Association between Hepatitis C Virus Antibodies and Hepatocellular Carcinoma in Taiwan. Ming-Whei Yu, San-Lin You, Ah-Seng Chang, Shang-Nan Lu, Yun-Fang Liaw, and Chien-Jen Chen.
-

5777 Announcements

Eighty-Third Annual Meeting of the AACR
AACR Special Conferences in Cancer Research
Future Annual Meetings of the AACR
Calendar of Events

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

Also available in the back of this issue—
GUIDELINES FOR SUBMITTING DISKS TO
AACR PUBLICATIONS

Cancer Research

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

51 (20)

Cancer Res 1991;51:5449-5779.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/51/20.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/51/20.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.