



CONTENTS§

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

- * 1359 Further Studies of the Action of a Partially Purified Bacteriocin against a Murine Fibrosarcoma. R. P. Hill and H. Farkas-Himsley.
- * 1366 Serum Levels of Dehydroepiandrosterone and Its Sulfate and the Risk of Developing Bladder Cancer. Gary B. Gordon, Kathy J. Helzlsouer, and George W. Comstock.
- * 1370 Uveal Melanoma, Hormonal and Reproductive Factors in Women. Elizabeth A. Holly, Diana A. Aston, David K. Ahn, Jennifer J. Kristiansen, and Devron H. Char.
- 1373 Single-Dose Preoperative Systemic Cyclophosphamide for the Prevention of Bladder Tumor Implantation in F344 Rats. William A. See, Scott A. Crist, Michel A. Boileau, and Richard D. Williams.
- 1378 Single-Dose Cyclophosphamide for the Prevention of Bladder Tumor Implantation in F344 Rats: Site of Drug Activity. William A. See, Scott A. Crist, and Richard D. Williams.
- 1384 ¹⁹F Magnetic Resonance Spectroscopy Studies of the Metabolism of 5-Fluorouracil in Murine RIF-1 Tumors and Liver. Paul E. Sijens, Yanmin Huang, Nick J. Baldwin, and Thian C. Ng.
- 1391 Ovarian Hormones Enhance 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin-mediated Increases in Cell Proliferation and Preneoplastic Foci in a Two-Stage Model for Rat Hepatocarcinogenesis. George W. Lucier, Angelika Tritscher, Thomas Goldsworthy, Julie Foley, George Clark, Joyce Goldstein, and Robert Maronpot.
- 1398 Evidence for a Common Genetic Pathway Controlling Susceptibility to Mouse Skin Tumor Promotion by Diverse Classes of Promoting Agents. John DiGiovanni, Susan C. Walker, Linda Beltran, Masashi Naito, and William C. Eastin, Jr.
- 1406 Induction of α -N-Acetylgalactosamine-O-Serine/Threonine (Tn) Antigen-mediated Cellular Immune Response for Active Immunotherapy in Mice. Anil Singhal, Melinda Fohn, and Sen-itiroh Hakomori.
- 1412 The Issues of Transport Multiplicity and Energetics Pertaining to Methotrexate Efflux in L1210 Cells Addressed by an Analysis of *cis* and *trans* Effects of Inhibitors. F. M. Sirotnak and D. F. O'Leary.
- * 1418 Novel Gene Sequences Expressed by Human Melanoma Cells Identified by Molecular Subtraction. Jeff T. Hutchins, Robert J. Deans, Malcolm S. Mitchell, Christopher Uchiyama, and June Kan-Mitchell.
- * 1426 Models to Predict Outcome from Childhood Neuroblastoma: The Role of Serum Ferritin and Tumor Histology. Jeffrey H. Silber, Audrey E. Evans, and Moshe Fridman.
- 1434 *In Vivo* and *In Vitro* Mechanisms of Drug Resistance in a Rat Mammary Carcinoma Model. Robyn L. Schecter, Annie Woo, Minh Duong, and Gerald Batist.
- * 1443 Partial Characterization of Proteoglycans Isolated from Neoplastic and Nonneoplastic Human Breast Tissues. Mauro Alini and Gabriele A. Losa.
- * 1448 Increased Mucosal Ornithine Decarboxylase Activity in Human Gastric Cancer. Junichi Okuzumi, Tetsuro Yamane, Yoshitaka Kitao, Kazuaki Tokiwa, Toshiharu Yamaguchi, Yoshihiro Fujita, Hoyoku Nishino, Akio Iwashima, and Toshio Takahashi.
- * 1452 Cellular Growth Response to Epidermal Growth Factor in Colon Carcinoma Cells with an Amplified Epidermal Growth Factor Receptor Derived from a Familial Adenomatous Polyposis Patient. M. E. Gross, M. A. Zorbas, Y. J. Danels, R. Garcia, G. E. Gallick, M. Olive, M. G. Brattain, B. M. Boman, and L. C. Yeoman.
- * 1460 Interstitial Chromosomal Deletion within 4q11-q13 in a Human Hepatoma Cell Line. Yoshio Urano, Kazutada Watanabe, C. C. Lin, Okio Hino, and Taiki Tamaoki.
- * 1465 Effect of the SV40 T Antigen on the Posttranscriptional Regulation of the Proliferating Cell Nuclear Antigen and DNA Polymerase- α Genes. Janice Koniecki, Paul Nugent, Jolanta Kordowska, and Renato Baserga.
- * 1472 Phase I Study and Pharmacological Analysis of *cis*-Diammine(glycolato)platinum (254-S; NSC 375101D) Administered by 5-Day Continuous Intravenous Infusion. Yasutsuna Sasaki, Tameyuki Amano, Masashige Morita, Tetsu Shinkai, Kenji Eguchi, Tomohide Tamura, Yuichiro Ohe, Akira Kojima, and Nagahiro Saijo.
- * 1478 Expression of Cathepsin L in Human Tumors. Shyam S. Chauhan, Lori J. Goldstein, and Michael M. Gottesman.
- * 1482 Covalent Binding of Human α_2 -Macroglobulin to Deglycosylated Ricin A Chain and Its Immunotoxins. Maria-Ana Ghetie, Jonathan W. Uhr, and Ellen S. Vitetta.
- * 1488 Interleukin 1 α Blocks Estradiol-stimulated Growth and Down-regulates the Estrogen Receptor in MCF-7 Breast Cancer Cells *in Vitro*. David N. Danforth, Jr. and Magdalene K. Sgagias.
- * 1494 Cytolytic Potential of Peripheral Blood T-Lymphocytes following Adoptive Immunotherapy with Lymphokine-activated Killer Cells and Low-Dose Interleukin 2. Ichiro Yoshino, Tokujiro Yano, Mitsuhiro Murata, Teruyoshi Ishida, Keizo Sugimachi, Genki Kimura, and Kikuo Nomoto.
- 1499 Protective and Restorative Role of AS101 in Combination with Chemotherapy. Yona Kalechman, Michael Albeck, Mor Oron, Darit Sobelman, Marc Gurwith, Gary Horwith, Ted Kirsch, Bernadette Maida, Suren N. Sehgal, and Benjamin Sredni.
- * 1504 Significance of *int-2/hst-1* Coamplification as a Prognostic Factor in Patients with Esophageal Squamous Carcinoma. Yuhkoh Kitagawa, Masakazu Ueda, Nobutoshi Ando, Yohtaro Shinozawa, Nobuyoshi Shimizu, and Osahiko Abe.
- 1509 Metabolism of Carcinogenic Nitrosamines by Rat Nasal Mucosa and the Effect of Diallyl Sulfide. Jun-Yan Hong, Theresa Smith, Mao-Jung Lee, Weisheng Li, Bing-Li Ma, Shu M. Ning, John F. Brady, Paul E. Thomas, and Chung S. Yang.
- * 1515 Hyperthermia Enhances Localization of ¹¹¹In-labeled Hapten to Bifunctional Antibody in Human Colon Tumor Xenografts. Daila S. Gridley, Karen L. Ewart, Jeffrey D. Cao, and Dwight R. Stickney.

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

- 1521 **Effect of Ultraviolet Irradiation on MCA102 Tumor Cell Immunogenicity and Sensitivity to Tumor Necrosis Factor.** Elieser Gorelik, Mirsada Begović, Lisa Duty, and Ronald B. Herberman.
- * 1529 **Microdistribution of Specific Rat Monoclonal Antibodies to Mouse Tissues and Human Tumor Xenografts.** Stephen J. Kennel, Rita Falcioni, and Jim W. Wesley.
- * 1537 **A New Tumor-associated Antigen Expressed on Breast Carcinomas, Defined by Monoclonal Antibody BCA 227.** Hervé M. Blottière, Sylviane Pelhate, Jacques Aubry, Mireille Kremer, Philippe Thedrez, Catherine Sai-Maurel, Jean-Yves Douillard, and Jean-François Chatal.
- * 1544 **Histopathological, Cytogenetic, and Molecular Characterization of Renal Cortical Tumors.** Joseph C. Presti, Jr., P. H. Rao, Q. Chen, Victor E. Reuter, Frederick P. Li, William R. Fair, and Suresh C. Jhanwar.
- * 1553 **Human Glial Fibrillary Acidic Protein: Complementary DNA Cloning, Chromosome Localization, and Messenger RNA Expression in Human Glioma Cell Lines of Various Phenotypes.** Erik Bongcam-Rudloff, Monica Nistér, Christer Betsholtz, Jia-Lun Wang, Göran Stenman, Kay Huebner, Carlo M. Croce, and Bengt Westermark.
- * 1564 **Aberrant Crypts: Putative Preneoplastic Foci in Human Colonic Mucosa.** Theresa P. Pretlow, Betty J. Barrow, W. Scott Ashton, Mary Ann O'Riordan, Thomas G. Pretlow, Joseph A. Jurcisek, and Thomas A. Stellato.
- * 1568 **3-Methyladenine DNA Glycosylase Activity in a Glial Cell Line Sensitive to the Haloethylnitrosoureas in Comparison with a Resistant Cell Line.** Zdenka Matijasevic, William J. Bodell, and David B. Ludlum.
- * 1571 **Decreased Levels of 1,2-*sn*-Diacylglycerol in Human Colon Tumors.** See-Chun Phan, Masami Morotomi, Jose G. Guillem, Paul LoGerfo, and I. Bernard Weinstein.
- * 1574 **Molecular Cloning of the Chromosomal Breakpoint of a B-Cell Lymphoma with the t(11;14)(q23;q32) Translocation.** Yukihiko Akao, Masao Seto, Toshitada Takahashi, Ichiro Kubonishi, Isao Miyoshi, Shinpei Nakazawa, Yoshihide Tsujimoto, Carlo M. Croce, and Ryuzo Ueda.

1577 **Announcements**

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

1579 **Author Index**

Advances in Brief

- * 1561 **Interleukin 2 Induced Leukocyte Adhesion to the Normal and Tumor Microvascular Endothelium *in Vivo* and Its Inhibition by Dextran Sulfate: Implications for Vascular Leak Syndrome.** Chiyoji Ohkubo, Darlene Bigos, and Rakesh K. Jain.

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

- Application for Active and Corresponding Membership
- Application for Associate Membership
- Advance Registration Form for the 82nd Annual Meeting

Also available in the back of this issue—
**GUIDELINES FOR SUBMITTING DISKETTES TO
 CANCER RESEARCH**

Cancer Research

VOLUME 51 • NUMBER 5

CONTENTS Arranged by Subject Category

BASIC SCIENCES

Biochemistry and Biophysics

- * 1452 Cellular Growth Response to Epidermal Growth Factor in Colon Carcinoma Cells with an Amplified Epidermal Growth Factor Receptor Derived from a Familial Adenomatous Polyposis Patient. M. E. Gross, M. A. Zorbas, Y. J. Danels, R. Garcia, G. E. Gallick, M. Olive, M. G. Brattain, B. M. Boman, and L. C. Yeoman.
- * 1482 Covalent Binding of Human α_2 -Macroglobulin to Deglycosylated Ricin A Chain and Its Immunotoxins. Maria-Ana Ghetie, Jonathan W. Uhr, and Ellen S. Vitetta.

Carcinogenesis

- 1391 Ovarian Hormones Enhance 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin-mediated Increases in Cell Proliferation and Preneoplastic Foci in a Two-Stage Model for Rat Hepatocarcinogenesis. George W. Lucier, Angelika Tritscher, Thomas Goldsworthy, Julie Foley, George Clark, Joyce Goldstein, and Robert Maronpot.
- 1398 Evidence for a Common Genetic Pathway Controlling Susceptibility to Mouse Skin Tumor Promotion by Diverse Classes of Promoting Agents. John DiGiovanni, Susan C. Walker, Linda Beltran, Masashi Naito, and William C. Eastin, Jr.
- * 1478 Expression of Cathepsin L in Human Tumors. Shyam S. Chauhan, Lori J. Goldstein, and Michael M. Gottesman.
- 1509 Metabolism of Carcinogenic Nitrosamines by Rat Nasal Mucosa and the Effect of Diallyl Sulfide. Jun-Yan Hong, Theresa Smith, Mao-Jung Lee, Weisheng Li, Bing-Li Ma, Shu M. Ning, John F. Brady, Paul E. Thomas, and Chung S. Yang.

Endocrinology

- * 1488 Interleukin 1 α Blocks Estradiol-stimulated Growth and Down-regulates the Estrogen Receptor in MCF-7 Breast Cancer Cells *in Vitro*. David N. Danforth, Jr. and Magdalene K. Sgagias.

Immunology

- * 1494 Cytolytic Potential of Peripheral Blood T-Lymphocytes following Adoptive Immunotherapy with Lymphokine-activated Killer Cells and Low-Dose Interleukin 2. Ichiro Yoshino, Tokujiro Yano, Mitsuhiro Murata, Teruyoshi Ishida, Keizo Sugimachi, Genki Kimura, and Kikuo Nomoto.
- 1521 Effect of Ultraviolet Irradiation on MCA102 Tumor Cell Immunogenicity and Sensitivity to Tumor Necrosis Factor. Elieser Gorelik, Mirsada Begović, Lisa Duty, and Ronald B. Herberman.
- * 1537 A New Tumor-associated Antigen Expressed on Breast Carcinomas, Defined by Monoclonal Antibody BCA 227. Hervé M. Blottière, Sylviane Pelhate, Jacques Aubry, Mireille Kremer, Philippe Thedrez, Catherine Sai-Maurel, Jean-Yves Douillard, and Jean-François Chatal.

Molecular Biology and Genetics

- * 1418 Novel Gene Sequences Expressed by Human Melanoma Cells Identified by Molecular Subtraction. Jeff T. Hutchins, Robert J. Deans, Malcolm S. Mitchell, Christopher Uchiyama, and June Kan-Mitchell.

- * 1460 Interstitial Chromosomal Deletion within 4q11-q13 in a Human Hepatoma Cell Line. Yoshio Urano, Kazutada Watanabe, C. C. Lin, Okio Hino, and Taiki Tamaoki.
- * 1465 Effect of the SV40 T Antigen on the Posttranscriptional Regulation of the Proliferating Cell Nuclear Antigen and DNA Polymerase- α Genes. Janice Konecki, Paul Nugent, Jolanta Kordowska, and Renato Baserga.
- * 1544 Histopathological, Cytogenetic, and Molecular Characterization of Renal Cortical Tumors. Joseph C. Presti, Jr., P. H. Rao, Q. Chen, Victor E. Reuter, Frederick P. Li, William R. Fair, and Suresh C. Jhanwar.

Preclinical Pharmacology and Experimental Therapeutics

- * 1359 Further Studies of the Action of a Partially Purified Bacteriocin against a Murine Fibrosarcoma. R. P. Hill and H. Farkas-Himsley.
- 1373 Single-Dose Preoperative Systemic Cyclophosphamide for the Prevention of Bladder Tumor Implantation in F344 Rats. William A. See, Scott A. Crist, Michel A. Boileau, and Richard D. Williams.
- 1378 Single-Dose Cyclophosphamide for the Prevention of Bladder Tumor Implantation in F344 Rats: Site of Drug Activity. William A. See, Scott A. Crist, and Richard D. Williams.
- 1384 ¹⁹F Magnetic Resonance Spectroscopy Studies of the Metabolism of 5-Fluorouracil in Murine RIF-1 Tumors and Liver. Paul E. Sijens, Yanmin Huang, Nick J. Baldwin, and Thian C. Ng.
- 1412 The Issues of Transport Multiplicity and Energetics Pertaining to Methotrexate Efflux in L1210 Cells Addressed by an Analysis of *cis* and *trans* Effects of Inhibitors. F. M. Sirotnak and D. F. O'Leary.
- 1434 *In Vivo* and *In Vitro* Mechanisms of Drug Resistance in a Rat Mammary Carcinoma Model. Robyn L. Schechter, Annie Woo, Minh Duong, and Gerald Batist.
- * 1515 Hyperthermia Enhances Localization of ¹¹¹In-labeled Hapten to Bifunctional Antibody in Human Colon Tumor Xenografts. Daila S. Gridley, Karen L. Ewart, Jeffrey D. Cao, and Dwight R. Stickney.

Tumor Biology

- 1406 Induction of α -N-Acetylgalactosamine-O-Serine/Threonine (Tn) Antigen-mediated Cellular Immune Response for Active Immunotherapy in Mice. Anil Singhal, Melinda Fohn, and Sen-itiroh Hakomori.
- * 1443 Partial Characterization of Proteoglycans Isolated from Neoplastic and Nonneoplastic Human Breast Tissues. Mauro Alini and Gabriele A. Losa.
- 1499 Protective and Restorative Role of AS101 in Combination with Chemotherapy. Yona Kalechman, Michael Albeck, Mor Oron, Darit Sobelman, Marc Gurwith, Gary Horwith, Ted Kirsch, Bernadette Maida, Suren N. Sehgal, and Benjamin Sredni.
- * 1529 Microdistribution of Specific Rat Monoclonal Antibodies to Mouse Tissues and Human Tumor Xenografts. Stephen J. Kennel, Rita Falcioni, and Jim W. Wesley.

* Indicates studies using human-derived material.

- *1553 **Human Glial Fibrillary Acidic Protein: Complementary DNA Cloning, Chromosome Localization, and Messenger RNA Expression in Human Glioma Cell Lines of Various Phenotypes.** Erik Bongcam-Rudloff, Monica Nistér, Christer Betsholtz, Jia-Lun Wang, Göran Stenman, Kay Huebner, Carlo M. Croce, and Bengt Westermark.

CLINICAL AND EPIDEMIOLOGICAL INVESTIGATIONS

Clinical

- 1426 **Models to Predict Outcome from Childhood Neuroblastoma: The Role of Serum Ferritin and Tumor Histology.** Jeffrey H. Silber, Audrey E. Evans, and Moshe Fridman.
- 1448 **Increased Mucosal Ornithine Decarboxylase Activity in Human Gastric Cancer.** Junichi Okuzumi, Tetsuro Yamane, Yoshitaka Kitao, Kazuaki Tokiwa, Toshiharu Yamaguchi, Yoshihiro Fujita, Hoyoku Nishino, Akio Iwashima, and Toshio Takahashi.
- 1472 **Phase I Study and Pharmacological Analysis of *cis*-Diamine(glycolato)platinum (254-S; NSC 375101D) Administered by 5-Day Continuous Intravenous Infusion.** Yasutsuna Sasaki, Tameyuki Amano, Masashige Morita, Tetsu Shinkai, Kenji Eguchi, Tomohide Tamura, Yuichiro Ohe, Akira Kojima, and Nagahiro Saijo.
- 1504 **Significance of *int-2/hst-1* Coamplification as a Prognostic Factor in Patients with Esophageal Squamous Carcinoma.** Yuhkoh Kitagawa, Masakazu Ueda, Nobutoshi Ando, Yohtaro Shinozawa, Nobuyoshi Shimizu, and Osahiko Abe.

Epidemiological

- 1366 **Serum Levels of Dehydroepiandrosterone and Its Sulfate and the Risk of Developing Bladder Cancer.** Gary B. Gordon, Kathy J. Helzlsouer, and George W. Comstock.

- 1370 **Uveal Melanoma, Hormonal and Reproductive Factors in Women.** Elizabeth A. Holly, Diana A. Aston, David K. Ahn, Jennifer J. Kristiansen, and Devron H. Char.

Advances in Brief

- *1561 **Interleukin 2 Induced Leukocyte Adhesion to the Normal and Tumor Microvascular Endothelium *in Vivo* and Its Inhibition by Dextran Sulfate: Implications for Vascular Leak Syndrome.** Chiyoji Ohkubo, Darlene Bigos, and Rakesh K. Jain.
- *1564 **Aberrant Crypts: Putative Preneoplastic Foci in Human Colonic Mucosa.** Theresa P. Pretlow, Betty J. Barrow, W. Scott Ashton, Mary Ann O'Riordan, Thomas G. Pretlow, Joseph A. Jurcisek, and Thomas A. Stellato.
- *1568 **3-Methyladenine DNA Glycosylase Activity in a Glial Cell Line Sensitive to the Haloethylnitrosoureas in Comparison with a Resistant Cell Line.** Zdenka Matijasevic, William J. Bodell, and David B. Ludlum.
- *1571 **Decreased Levels of 1,2-*sn*-Diacylglycerol in Human Colon Tumors.** See-Chun Phan, Masami Morotomi, Jose G. Guillem, Paul LoGerfo, and I. Bernard Weinstein.
- *1574 **Molecular Cloning of the Chromosomal Breakpoint of a B-Cell Lymphoma with the t(11;14)(q23;q32) Translocation.** Yukihiko Akao, Masao Seto, Toshitada Takahashi, Ichiro Kubonishi, Isao Miyoshi, Shinpei Nakazawa, Yoshihide Tsujimoto, Carlo M. Croce, and Ryuzo Ueda.
- 1577 **Announcements**
 Eighty-second Annual Meeting of the AACR
 AACR Special Conferences in Cancer Research
 Future Annual Meetings of the AACR
 Recent Deaths
 Calendar of Events
- 1579 **Author Index**

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

- Application for Active and Corresponding Membership
- Application for Associate Membership
- Advance Registration Form for the 82nd Annual Meeting

Also available in the back of this issue—
**GUIDELINES FOR SUBMITTING DISKETTES TO
 CANCER RESEARCH**

Cancer Research

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

51 (5)

Cancer Res 1991;51:1359-1578.

Updated version Access the most recent version of this article at:
<http://cancerres.aacrjournals.org/content/51/5.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/51/5.citation>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.