



CONTENTS

Advances in Brief

- 447 **Role of Tyrosine Phosphorylation in Radiation-induced Activation of *c-jun* Protooncogene in Human Lymphohematopoietic Precursor Cells.** Heonjoo Park Chae, Lisa J. Jarvis, and Fatih M. Uckun.
- 452 **Screening for Germ Line *p53* Mutations in Children with Malignant Tumors and a Family History of Cancer.** L. Brugières, M. Gardes, C. Moutou, A. Chompret, V. Meresse, A. Martin, N. Poisson, F. Flamant, C. Bonaïti-Pellié, J. Lemerle, and J. Feunteun.
- 456 **Delayed-Type Hypersensitivity Reactions to Tumor-associated Antigens in Colon Carcinoma Patients Immunized with an Autologous Tumor Cell/*Bacillus Calmette-Guérin* Vaccine.** Elisabeth Bloemena, Helen Gall, Janet H. Ransom, Nicholas Pomato, James H. Murray, Ebo Bos, Rik J. Schepen, Chris J. L. M. Meijer, Michael G. Hanna, Jr., and Jan B. Vermorken.
- 460 **DNA-Protein Cross-Links in Welders: Molecular Implications.** Max Costa, Anatoly Zhitkovich, and Paolo Toniolo.
- 464 **Interleukin 6 Stimulates the Production of Immunoreactive Endothelin 1 in Human Breast Cancer Cells.** Jun-ichi Yamashita, Michio Ogawa, Koichi Nomura, Shuichi Matsuo, Kazuo Inada, Shin-ichi Yamashita, Yasunari Nakashima, Tetsushi Saishoji, Sadamu Takano, and Shoji Fujita.
- 468 ***p53* Abnormalities in Different Subtypes of Human Sarcomas.** Å. Andreassen, T. Øyjord, E. Hovig, R. Holm, V. A. Flørenes, J. M. Nesland, O. Myklebost, J. Høie, Ø. S. Bruland, A-L. Børresen, and Ø. Fodstad.
- 472 **Time Course of Induction of Metabolism of all-trans-Retinoic Acid and the Up-Regulation of Cellular Retinoic Acid-binding Protein.** Peter C. Adamson, John F. Boylan, Frank M. Balis, Robert F. Murphy, Karen A. Godwin, Lorraine J. Gudas, and David G. Poplack.

Public Issues

- 477 **Trends in Program Project Grant Funding at the National Cancer Institute.** Samuel Broder and Mary Cushing.

Special Lecture

- 485 **Role of the *BCR-ABL* Oncogene in Human Leukemia: Fifteenth Richard and Hinda Rosenthal Foundation Award Lecture.** Owen N. Witte.

Regular Articles

Biochemistry and Biophysics

- 490 **Induction of Topoisomerase I-mediated DNA Cleavage by a New Indolocarbazole, ED-110.** Tomoko Yoshinari, Akihiro Yamada, Daisuke Uemura, Kazuhiro Nomura, Hiroharu Arakawa, Katsuhisa Kojiri, Eisaku Yoshida, Hiroyuki Suda, and Akira Okura.

Carcinogenesis

- 495 **Identification of Cellular Defect in UVS1, a UV-sensitive Chinese Hamster Ovary Mutant Cell Line.** Masayuki Numata, Hiroaki Hata, Tadahiro Shiomi, Tsukasa Matsunaga, Toshio Mori, Osamu Nikaido, Akira Yasui, and Atsushi Oikawa.
- 500 **Clonal Analysis of the Expression of Multiple Transformation Phenotypes and Tumorigenicity by Morphologically Transformed 10T1/2 Cells.** Gary J. Smith, William N. Bell, and Joe W. Grisham.
- 509 **Metabolic Activation of *N*-Hydroxy-2-aminofluorene and *N*-Hydroxy-2-acetylaminofluorene by Monomorphic *N*-Acetyltransferase (NAT1) and Polymorphic *N*-Acetyltransferase (NAT2) in Colon Cytosols of Syrian Hamsters Congenic at the NAT2 Locus.** David W. Hein, Mark A. Doll, Kevin Gray, Timothy D. Rustan, and Ronald J. Ferguson.
- 515 **Transformation-induced Alterations in the Regulation of Tyrosine Aminotransferase Expression in Fetal Rat Hepatocytes: Changes in Hormone Inducibility and the DNase-hypersensitive Site.** George C. T. Yeoh and Christopher J. Fisher.

Clinical Investigations

- 523 **Phase I and Pharmacokinetic Study of Taxotere (RP 56976) Administered as a 24-Hour Infusion.** D. Bissett, A. Setanoians, J. Cassidy, M. A. Graham, G. A. Chadwick, P. Wilson, V. Auzannet, N. Le Bail, S. B. Kaye, and D. J. Kerr.

Endocrinology

- 528 **Selective Increase in Type II Estrogen-binding Sites in the Dysplastic Dorsolateral Prostates of Noble Rats.** Shuk-me Ho and Margaret Yu.
- 533 **Inhibition of Angiogenesis by Antiestrogens.** A. Gagliardi and D. C. Collins.

Epidemiology

- 536 **Vegetables, Fruit, and Lung Cancer in the Iowa Women's Health Study.** Kristi A. Steinmetz, John D. Potter, and Aaron R. Folsom.

Experimental Therapeutics

- 544 **Reduced Glutathione Protects against Cisplatin-induced Neurotoxicity in Rats.** Frank P. T. Hamers, Jan H. Brakkee, Ennio Cavalletti, Michele Tedeschi, Laura Marmonti, Gabriella Pezzoni, Jan P. Neijt, and Willem H. Gispert.
- 550 **Characterization of Experimental Mitoxantrone Cardiotoxicity and Its Partial Inhibition by ICRF-187 in Cultured Neonatal Rat Heart Cells.** N. G. Shipp, Robert T. Dorr, David S. Alberts, Brenda V. Dawson, and Mary Hendrix.
- 557 ***O*-Phospho-L-tyrosine Inhibits Cellular Growth by Activating Protein Tyrosine Phosphatases.** Shrikant Mishra and Anne W. Hamburger.

- 564 Nitric Oxide/Nucleophile Complexes Inhibit the *in Vitro* Proliferation of A375 Melanoma Cells via Nitric Oxide Release.** Chris M. Maragos, Ji Ming Wang, Joseph A. Hrabie, Joost J. Oppenheim, and Larry K. Keefer.
- 569 Combined Interleukin 1 β /Interleukin 2 Treatment in Mice: Synergistic Myelostimulatory Activity and Protection against Cyclophosphamide-induced Myelosuppression.** Enrico Proietti, Elena Tritarelli, Lucia Gabriele, Ugo Testa, Giampaolo Greco, Elvira Pelosi, Marco Gabbianelli, Filippo Belardelli, and Cesare Peschle.
- 577 Antisense DNA Inhibition of Tumor Growth Induced by c-Ha-ras Oncogene in Nude Mice.** Gary D. Gray, Olga M. Hernandez, Denise Hebel, Malcolm Root, Julio M. Pow-Sang, and Eric Wickstrom.
- 581 Antitumor Activity of N¹,N¹¹-Bis(ethyl)norspermine against Human Melanoma Xenografts and Possible Biochemical Correlates of Drug Action.** Carl W. Porter, Ralph J. Bernacki, John Miller, and Raymond J. Bergeron.
- 587 Markedly Improved Efficacy of Edatrexate Compared to Methotrexate in a High-Dose Regimen with Leucovorin Rescue against Metastatic Murine Solid Tumors.** F. M. Sirotnak, G. M. Otter, and F. A. Schmid.

Immunology

- 592 Molecular Basis of Complement Resistance of Human Melanoma Cells Expressing the C3-cleaving Membrane Protease p65.** Markus W. Ollert, Joseph V. Kadlec, Eugene C. Petrella, Reinhard Bredehorst, and Carl-Wilhelm Vogel.
- 600 Improved Radioimmunotherapeutic Efficacy of an Anticarcinoma Monoclonal Antibody (¹³¹I-CC49) When Given in Combination with γ -Interferon.** John W. Greiner, Claudio Dansky Ullmann, Carol Nieroda, Chen-Feng Qi, Diane Eggensperger, Shinya Shimada, Seth M. Steinberg, and Jeffrey Schlom.

Molecular Biology and Genetics

- 609 Hypersensitivity of Human Lymphocytes to UV-B and Solar Irradiation.** Colin F. Arlett, Jillian E. Lowe, Susan A. Harcourt, Alastair P. W. Waugh, Jane Cole, Leendert Roza, Brian L. Diffey, Toshio Mori, Osamu Nikaido, and Michael H. L. Green.
- 615 Tumor Necrosis Factor α and Interleukin 1 α Induce Anchorage Independence in v-jun Transgenic Murine Cells.** Luc Vanhamme, Glenn M. Marshall, Andre C. Schuh, Martin L. Breitman, and Peter K. Vogt.
- 622 Characterization of Sarcoma Cell Lines from v-jun Transgenic Mice.** Glenn M. Marshall and Luc Vanhamme.

Tumor Biology

- 627 Differential Isolation of Normal Luminal Mammary Epithelial Cells and Breast Cancer Cells from Primary and Metastatic Sites**

707 Announcements

Eighty-Fourth Annual Meeting of the AACR
New Format for Annual Meetings of the AACR Beginning in 1994
Workshop on Histopathobiology of Cancer
Workshop on Molecular Biology in Clinical Oncology
AACR Special Conferences in Cancer Research
Calendar of Events

AACR forms available in the back of this issue:

Application for Active and Corresponding Membership
Application for Associate Membership

AACR forms available in the back of this issue:

Advance Registration Form for the 84th Annual Meeting
Guidelines for Submitting Disks to AACR Publications

710 Author Index