# TABLE OF CONTENTS

Foreword
   Thomas W. Kensler, Michael A. Trush, and Michael G. Simic ........................................... 1876s

## MECHANISMS OF CANCER AND AGING

Recent Studies on the Metabolic Activation of Chemical Carcinogens
   James A. Miller .................................................................................................................. 1879s

Oncogene Activation and Tumor Suppressor Gene Inactivation during Multistage Mouse Skin Carcinogenesis
   G. Tim Bowden, Brandy Schneider, Rick Domann, and Molly Kulesz-Martin ....................... 1882s

Modulation of Oxidant Formation in Mouse Skin *in Vivo* by Tumor-promoting Phorbol Esters
   Lawrence J. Marnett and Chuan Ji ....................................................................................... 1886s

Reactive Oxygen Species in Tumorigenesis
   Daniel I. Feig, Thomas M. Reid, and Lawrence A. Loeb .................................................. 1890s

Reactive Oxygen-dependent DNA Damage Resulting from the Oxidation of Phenolic Compounds by a Copper-Redox Cycle Mechanism
   Yunbo Li and Michael A. Trush ........................................................................................... 1895s

Enzymatic Repair of Oxidative DNA Damage
   Masahiko S. Satoh and Tomas Lindahl ............................................................................... 1899s

The Pathway Regulating GADD153 Induction in Response to DNA Damage Is Independent of Protein Kinase C and Tyrosine Kinases
   Jennifer D. Luethy and Nikki J. Holbrook .......................................................................... 1902s

## BIOMARKERS AND SUSCEPTIBILITY FACTORS

Molecular Biomarkers for Aflatoxins and Their Application to Human Cancer Prevention
   John D. Groopman, Gerald N. Wogan, Bill D. Roebuck, and Thomas W. Kensler ............... 1907s

Biomarkers for Human Uptake and Metabolic Activation of Tobacco-specific Nitrosamines
   Stephen S. Hecht, Steven G. Carmella, Peter G. Foiles, and Sharon E. Murphy .................. 1912s

DNA Markers of Oxidative Processes *in Vivo*: Relevance to Carcinogenesis and Anticarcinogenesis
   Michael G. Simic ............................................................................................................... 1918s

Radioadaptation to the Mutagenic Effect of Ionizing Radiation in Human Lymphoblasts: Molecular Analysis of *HPRT* Mutants
   O. Rigaud and E. Moustacchi .............................................................................................. 1924s

Inflammation, Chromosomal Instability, and Cancer: The Schistosomiasis Model
   Miriam P. Rosin, Wagida A. Anwar, and Amanda J. Ward ................................................ 1929s

## MOLECULAR DIAGNOSTICS

Mutagenesis of the H-ras Protooncogene and the p53 Tumor Suppressor Gene
   Peter Cerutti, Perwez Hussain, Charareh Pourzand, and Fernando Aguilar ....................... 1934s

Cancer Screening Based on Genetic Alterations in Human Tumors
   Li Mao and David Sidransky .............................................................................................. 1939s

Phenotypic and Genotypic Events in Gastric Carcinogenesis
   Pelayo Correa and Yih-horng Shiao .................................................................................. 1941s

Test Reliability Is Critically Important to Molecular Epidemiology: An Example from Studies of Human Papillomavirus Infection and Cervical Neoplasia
   Mark H. Schiffman and Arthur Schatzkin ............................................................................ 1944s

## NUTRITION, EXERCISE, AND CANCER

Experimental Evidence for Inhibition of *N*-Nitroso Compound Formation as a Factor in the Negative Correlation between Vitamin C Consumption and the Incidence of Certain Cancers
   Sidney S. Mirvish .............................................................................................................. 1948s

Is There a Significant Role for Lipid Peroxidation in the Causation of Malignancy and for Antioxidants in Cancer Prevention?
   Anthony T. Diplock, Catherine A. Rice-Evans, and Roy H. Burdon .................................... 1952s
54 (7 Supplement)


Updated version  Access the most recent version of this article at:  
http://cancerres.aacrjournals.org/content/54/7_Supplement.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, contact the AACR Publications Department at permissions@aacr.org.