Cancer Epidemiology
Biomarkers
& Prevention

An Official Journal of the American Association for Cancer Research ■ Cosponsored by the American Society of Preventive Oncology

American Association for Cancer Research, Inc.
Executive Director and Director of Publications
Margaret Foti
Publications Staff
Associate Director of Publications
Mary Anne Mennite
Manager, Editorial Services
Heide M. Puxty
Staff Editors
Michael J. Beveridge
Kathleen C. Kimmich
Pamela R. Arnold
Laure B. Baker
Staff Assistant
Mary Ellen Piring
Administrative Coordinator
Holly M. Haskins
Senior Editorial Assistant
Theresa A. Griffith
Editorial Assistants
Valerie L. Samuel
Andrea Conrad
Cecilia Gallo
Administrative Staff
Director of Administration
Adam D. Blisnec
Controller
Joan D. Ritchie
Coordinator, Financial Operations
George L. Hawe
Manager, Meetings and Exhibits
Jeffrey M. Ruben
Meeting Planner
Carole L. Kanoff
Public Information Coordinator
Jenny Anne Hors-Martzn
Assistant to the Executive Director
Ruth E. Fortuna
Membership Development Coordinator
Robin E. Felder
Administrative Assistant
Margaret A. Pickels
Systems Specialist
Lydia I. Rodriguez
Secretary
Malika L. Weight
Editorial Assistant
Diana F. Cerro
Office Clerk
James J. Waters
Data Entry Clerk
Robert A. Simms II
Office of the Editor-in-Chief
Editorial Assistant
Cheryl C. Carter

Editor-in-Chief
Pelayo Correa
Wong-Ho Chow
Alfred I. Neugut

Associate Editors
W. Robert Bruce
Philip Cole
Gilbert S. Omenn
K. Michael Cummings
C. Tracy Orleans
Susan J. Curry
David L. Page
Janet Daling
Frederica Perera
Mary Daly
Nicholas L. Petrakis
Fred K. Kadlubar
John P. Pierce
Laurence N. Kolonel
Miriam C. Poirier
Frederick P. Li
Bruce A. J. Ponder
W. Thomas London
Ross Prentice
Thomas E. Moon
Barbara R. Rimer
Abraham M. Y. Nomura
Nathaniel Rothman
John D. Potter
George C. Roush
James A. Swenberg
Jose Russo
Steven R. Tannenbaum
Jonathan M. Samet
Alice S. Whitemore
Arthur Schatzkin
Chung S. Yang
David Schottenfeld
Mimi C. Yu
Paul A. Schulte
Assistant Editor
Elizabeth T. H. Fontham
Peter Shields
W. Thomas London
Roy E. Shore

Editorial Advisory Board
Hans-Olov Adami
Margaret R. Spitz
Bruce K. Armstrong
Louise C. Strong
Helmut Bartsch
Takashi Sugimura
Valerie Beral
G. Marie Swanson
Leslie Bernstein
Eiichi Tahara
John S. Bertram
Bruce Trock
Joan R. Bloom
Sally Vernon
William J. Blot
Michael J. Wargovich
John D. Boice, Jr.
Lee W. Wattenberg
George E. Bonney
I. Bernard Weinstein
Richard H. Love
John H. Weisburger
Thomas Mack
Noel S. Weiss
Frank L. Meyskens, Jr.
I. Bernard Weinstein
Christopher J. Michiels
John H. Weisburger
Roderic D. Minchin
Walter C. Willett
Rodney F. Minchin
Rodger J. Winn
John D. Minna
Gerald N. Wogan
Ruggero Montesano
Sandra R. Wolman
John J. Mulvihill
Ernst L. Wynder
Alvaro Munoz
Regina Ziegler
Nubia Munoz

Cancer Epidemiology, Biomarkers & Prevention is published monthly, one volume annually, by the American Association for Cancer Research, Inc. Except for members of the American Association for Cancer Research, all subscriptions are payable in advance to Cancer Epidemiology, Biomarkers & Prevention, P.O. Box 3000, Denville, NJ 07834 (Telephone: (800) 875-2997 or (201) 627-2427; FAX: (201) 627-5872), to which all business communications, remittances (in United States currency or its equivalent), and subscription orders should be sent. In Japan, send orders and inquiries to (sole agent): USACO Corporation, Tsutsumi Bldg., 13-12, Shimibashi 1-chome, Minato-ku, Tokyo 105, Japan, Tel. (03) 502-6471. Nonmembers of the American Association for Cancer Research within the United States may subscribe to Volume 6 (1997) of Cancer Epidemiology, Biomarkers & Prevention at the rate of $59 (individual nonmembers) or $245 (institutional nonmembers), including postage. Institutional and individual nonmembers outside of the United States should add $40 to their respective rates to offset periodical postage costs, which covers the cost of shipping journals by surface mail. (For faster delivery, expedited mailing rates are available by contacting the AACR Publications Department). Canadian subscribers should add 7% GST. Changes of address notification should be sent 60 days in advance and include both old and new addresses. Member subscribers should send address changes to: Membership Services, American Association for Cancer Research, Inc., Public Ledger Bldg., Suite 816, 150 South Independence Mall West, Philadelphia, PA 19106-3483. Nonmember subscribers should send changes of address to: Cancer Epidemiology, Biomarkers & Prevention, P.O. Box 3000, Denville, NJ 07834. Copies of the journal which are undeliverable because of address changes will be destroyed. Through the kind assistance of the Japanese Cancer Association, accelerated mailing of all AACR journals to AACR members in Japan is supported by a generous grant from the Banyu Pharmaceutical Company, Tsukuba, Japan.