

Cancer Research

Editor SIDNEY WEINHOUSE
Managing Editor MARGARET FOTT
Assistant Managing Editor PATRICIA A. BERGBAUER
Cover Editor MICHAEL B. SHIMKIN

Editorial Assistants

EDITH M. BALLOU
JOAN F. BARTON
SHERYL B. SEIGLE
D. THERESA KANYA

ELINOR Y. SEROTKIN
ANDREW REUYS
GERARD M. HELFERICH

Associate Editors

Creed W. Abell
M. Earl Balis
Renato Baserga
Frederick F. Becker
Nathaniel I. Berlin
Howard A. Bern
R. K. Boutwell
Harris Busch
Bayard D. Clarkson
Eugene D. Day
Vittorio Defendi
Friedrich Deinhardt
Eugene R. DeSombre
Joseph A. DiPaolo
Gertrude B. Elion
Edward S. Essner
John L. Fahey
Emmanuel Farber
Alexander Fefer
Bernard Fisher
Emil Frei, III
Robert C. Gallo
Harry V. Gelboin
Phil Gold
Pietro M. Gullino
Sen-Itiroh Hakomori
Thomas C. Hall
Leonard Hayflick
Karl E. Hellström
Ronald B. Herberman
Russell Hilf
Erich Hirschberg
Frank M. Huennekens
Robert B. Hurlbert
Charles C. Irving
Irving S. Johnson

Robert F. Kallman
Albert S. Kaplan
Werner H. Kirsten
Saul Kit
Montague Lane
Robert Love
Peter N. Magee
H. George Mandel
Joseph Meites
Mortimer L. Mendelsohn
Enrico Mihich
Alex B. Novikoff
Keith R. Porter
Fred Rapp
Fred Rosen
Alan C. Sartorelli
Frank M. Schabel, Jr.
Marvin A. Schneiderman
Emma Shelton
Michael B. Shimkin
Hans O. Sjögren
Edward A. Smuckler
Fred L. Snyder
Sam Sorof
Jesse L. Steinfeld
Paul O. P. Ts'o
John E. Ulmann
Arthur C. Upton
Lee W. Wattenberg
Charity Waymouth
George Weber
John H. Weisburger
Charles E. Wenner
Gerald N. Wogan
C. Gordon Zubrod

Editorial Advisory Board

Samuel Abraham
Aaron Bendich
L. Lee Bennett, Jr.
Michael J. Brennan
Janet S. Butel
Paul P. Carbone
James E. Cleaver
Allan H. Conney
Clyde J. Dawe
Frederick J. de Serres
Vincent T. DeVita
Sheldon M. Epstein
James R. Fouts
Joseph F. Fraumeni, Jr.
Emil J. Freireich
John J. Furth
Olga Greengard
Hidesaburo Hanafusa
Theodore S. Hauschka
Evan M. Hersh
T. C. Hsu
Wolfgang K. Joklik
Joseph Leighton

Aaron B. Lerner
William Lijinsky
Abraham M. Lilienfeld
Mortimer B. Lipsett
Gerald Litwack
Elizabeth C. Miller
Paul Nettesheim
Warren W. Nichols
Albert H. Owens, Jr.
Joseph S. Pagano
Donald Pinkel
Michael Potter
DeWayne Roberts
Katherine K. Sanford
Stewart Sell
Herschel Sidransky
H. F. Stich
Osias Stutman
George J. Todaro
Benjamin L. Van Duuren
Leonard Warren
Ernst L. Wynder

Notice to Members of the American Association for Cancer Research

Officers for 1976-1977

President: ELIZABETH C. MILLER, McArdle Laboratory for Cancer Research, Medical Center, University of Wisconsin, Madison, Wisconsin 53706.

Vice President: C. GORDON ZUBROD, School of Medicine, P.O. Box 520875, Biscayne Annex, Miami, Florida 33152.

Secretary-Treasurer: HUGH J. CREECH, Institute for Cancer Research, 7701 Burholme Avenue, Fox Chase, Philadelphia, Pennsylvania 19111.

The annual dues to active members of the American Association for Cancer Research include a subscription to the Journal CANCER RESEARCH. The regular annual subscription price to CANCER RESEARCH for members of the Association is \$15.00 per annual volume. Payment of dues and changes of address of members of the Association should be sent promptly to Dr. Creech.

Sponsors

CANCER RESEARCH is sponsored by the American Association for Cancer Research, Inc.; the National Cancer Institute, United States Public Health Service; the American Cancer Society, Inc.; the Damon Runyon-Walter Winchell Cancer Fund; and the Elsa U. Pardee Foundation.

Notice to General Subscribers

CANCER RESEARCH is published monthly, one volume per year, for Cancer Research, Inc., by The Williams & Wilkins Company, 428 E. Preston St., Baltimore, Maryland 21202. Subscriptions include the Proceedings of the American Association for Cancer Research issued in March of each year. Except for members of the American Association for Cancer Research, all subscriptions are payable in advance to the publisher of the Journal. The Williams & Wilkins Co., to which all business communications, remittances (in United States currency or its equivalent), and subscription orders should be sent. Nonmembers of the American Association for Cancer Research, Inc., may subscribe to the Journal CANCER RESEARCH at the rate of \$75.00 per annual volume, including postage. Please notify the publisher of changes of address 60 days in advance, giving both the old and new addresses. Copies undeliverable because of address changes will be destroyed.

Papers submitted for publication and all other communications for the attention of the Editor should be sent to Dr. Sidney Weinhouse, *Editor*, CANCER RESEARCH, Fels Research Institute, Temple University School of Medicine, Philadelphia, Pennsylvania 19140. Telephone: 215-221-4720. Authors should consult the detailed INSTRUCTIONS FOR AUTHORS printed in the January issue of the Journal; copies are available upon request.

Back Issues and Single Copy Sales of the Journal

Copies of back stock of the Journal CANCER RESEARCH for the two years preceding the current year may be ordered from The Williams & Wilkins Co., address above. As long as supplies permit, single copies of CANCER RESEARCH will be sold by this company at \$12.00 per copy for a regular issue of the Journal, and \$15.00 per copy for a Part 2 of the Journal containing supplementary material from special symposia. When available, earlier issues may be obtained from Walter J. Johnson, Inc., 355 Chestnut Street, Norwood, New Jersey 07648.

Second-class postage paid at Baltimore, Maryland and additional mailing offices

Copyright 1977 by Cancer Research, Inc.