

THE JOURNAL OF
NUTRITION

OFFICIAL ORGAN OF THE AMERICAN INSTITUTE OF NUTRITION

FREDRIC W. HILL, *Editor*

Department of Nutrition
University of California
Davis, California 95616

F. H. KRATZER

R. L. BALDWIN

R. M. FORBES

Associate Editors

Biographical Editor

EDITORIAL BOARD

R. W. LUECKE
FRED H. MATTSON
ROBERT A. NEAL
MALDEN C. NESHEIM
WALTHER H. OTT
JAMES M. IACONO
W. E. CORNATZER

DAVID B. COUR SIN
NORMAN L. JACOBSON
JAY TEPPERMAN
VERNON R. YOUNG
DAVID H. BAKER
ROLAND M. LEACH
JACK METCOFF
BERT M. TOLBERT

PETER J. VAN SOEST
CAROLYN D. BERDANIER
PAUL GRIMINGER
G. RICHARD JANSEN
H. L. LUCAS, JR.
J. W. SUTTIE
MARIAN E. SWENDSEID

VOLUME 107

JANUARY-DECEMBER 1977

PUBLISHED MONTHLY BY
THE AMERICAN INSTITUTE OF NUTRITION
BETHESDA, MARYLAND

THE JOURNAL OF NUTRITION

OFFICIAL ORGAN OF THE AMERICAN INSTITUTE OF NUTRITION

Editor

FREDRIC W. HILL
DEPARTMENT OF NUTRITION
UNIVERSITY OF CALIFORNIA
DAVIS, CALIFORNIA 95616

Associate Editor

F. H. KRATZER
R. L. BALDWIN

Biographical Editor

R. M. FORBES

Editorial Board

H. H. DRAPER
JOHN E. HALVER
HELLEN M. LINKSWILER
WALTHER H. OTT
OSCAR W. PORTMAN
HERSCHEL SIDRANSKY
JAMES M. IACONO
R. W. LUECKE
FRED H. MATTSON
ROBERT A. NEAL
MALDEN C. NESHEIM
W. E. CORNATZER
DAVID B. COURSIN
NORMAN L. JACOBSON
JAY TEPPERMAN
VERNON R. YOUNG
DAVID H. BAKER
ROLAND M. LEACH
JACK METCOFF
BERT M. TOLBERT
PETER J. VAN SOEST

January 1977

Volume 107

Number 1