

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  
*Associate Editor*

E. NEIGE TODHUNTER  
R. M. FORBES  
*Biographical Editors*

EDITORIAL BOARD

STANLEY N. GERSHOFF  
CHARLES H. HILL  
DAVID KRITCHEVSKY  
DONALD B. MCCORMICK  
J. N. WILLIAMS, JR.  
B. R. BAUMGARDT  
H. FISHER  
CHARLES S. LIEBER  
GILBERT A. LEVEILLE

O. NEAL MILLER  
WALTHER H. OTT  
C. FRANK CONSOLAZIO  
H. D. EATON  
RAYMOND REISER  
HAROLD H. SANDSTEAD  
MYRON WINICK  
H. H. DRAPER

JOHN E. HALVER  
HELLEN M. LINKSWILER  
OSCAR W. PORTMAN  
HERSCHEL SIDRANSKY  
JAMES M. IACONO  
R. W. LUECKE  
FRED H. MATTSON  
ROBERT A. NEAL  
MALDEN C. NESHEIM

VOLUME 104

JANUARY - DECEMBER 1974

PUBLISHED MONTHLY BY  
THE AMERICAN INSTITUTE OF NUTRITION  
BETHESDA, MARYLAND