

# THE JOURNAL OF EXPERIMENTAL MEDICINE

EDITED BY

ZANVIL A. COHN      HENRY G. KUNKEL  
JAMES G. HIRSCH      MACLYN McCARTY

ASSISTANT EDITORS

SHU MAN FU      ALLAN R. GOLDBERG  
RALPH STEINMAN

ADVISORY EDITORS

K. FRANK AUSTEN	THOMAS J. KINDT	BENVENUTO PERNIS
ALEXANDER G. BEARN	RICHARD M. KRAUSE	EDWARD REICH
BARUJ BENACERRAF	FRANK LILLY	MATTHEW D. SCHARFF
DOROTHEA BENNETT	GEORGE B. MACKANESS	JONATHAN SPRENT
RUPERT E. BILLINGHAM	HUGH O. MCDEVITT	IGOR TAMM
BARRY R. BLOOM	HANS J. MÜLLER-EBERHARD	JONATHAN W. UHR
FRANK J. DIXON	RALPH L. NACHMAN	KENNETH S. WARREN
MARILYN G. FARQUHAR	ROBERT J. NORTH	WILLIAM O. WEIGLE
HIDESABURO HANAFUSA	WILLIAM E. PAUL	DARCY B. WILSON
ATTALLAH KAPPAS		HENRY J. WINN



PUBLISHED MONTHLY BY  
THE ROCKEFELLER UNIVERSITY PRESS

VOLUME 150, No. 3 SEPTEMBER 1, 1979

JEMEAV 150(3) 413-728 (1979)      ISSN 0022-1007