## JOURNAL OF

# Pharmaceutical Sciences

#### A publication of the American Pharmaceutical Association

Published monthly under the supervision of the Committee on Publications with the approval of the Council

Editor

EDWARD G. FELDMANN

Associate Editor SAMUEL W. GOLDSTEIN

Assistant Editor JACQUELINE BORAKS

Editorial Associate SANDRA SUE SMITH

Contributing Editor RHEA LORIS TALLEY

Committee on Publications

LLOYD M. PARKS, chairman WILLIAM S. APPLE GROVER C. BOWLES, JR. THOMAS J. MACEK HUGO H. SCHAEFER Editorial Advisory Board

JOSEPH P. BUCKLEY TROY C. DANIELS GEORGE P. HAGER THOMAS J. MACEK JOSEPH V. SWINTOSKY VARRO E. TYLER, JR.

#### VOLUME 53

INDEX TO AUTHORS INDEX TO SUBJECTS

### JANUARY TO DECEMBER, 1964