THE JOURNAL
OF
PHARMACOLOGY
AND
EXPERIMENTAL THERAPEUTICS

EDITED BY
JOHN J. ABELO
Johns Hopkins University
AND
ARTHUR R. CUSHNY
University of London
IN ASSOCIATION WITH:

J. T. Cash,
University of Aberdeen
A. C. Crawford,
Leland Stanford Junior University
H. H. Dale,
London
W. E. Dixon,
University of Cambridge
C. W. Edmunds,
University of Michigan
D. L. Edsall,
Harvard University
S. Flexner,
Rockefeller Institute for Medical Research
Sir Thomas R. Fraser,
University of Edinburgh
J. A. Gunn,
University of Oxford
R. A. Hatcher,
Cornell University Medical College
Reid Hunt,
Harvard University

J. N. Langley,
University of Cambridge
A. S. Loebenhart,
University of Wisconsin
C. R. Marshall,
University of St. Andrews
S. J. Meltzer,
Rockefeller Institute for Medical Research
F. Ransom,
London
A. N. Richards,
University of Pennsylvania
Torald Sollmann,
Western Reserve University
G. N. Stewart,
Western Reserve University
R. Stockman,
University of Glasgow
Carl Voegtlin
U. S. Public Health and Marine Hospital Service
G. B. Wallace,
University and Bellevue Hospital Medical College

VOLUME XIII
1919

BALTIMORE, MARYLAND