

VOLUME 4

May, 1956

A. GLENN RICHARDS  
Dept. Entomology & EC. Zool.  
University of Minnesota  
St. Paul 1, Minnesota  
NUMBER 3

# THE JOURNAL OF HISTOCHEMISTRY AND CYTOCHEMISTRY

*Official Journal of The Histochemical Society*

## CONTENTS

The Mechanism of the Marchi Type of Methods for Visualizing Degenerating Myelin. Model Experiments with Pure Compounds. M. WOLMAN.....	195
The Effect of Mucolytic Enzymes on Tissues Stained with the Periodic Acid-Schiff Technique. D. EDINGER AND A. GHOSH.....	200
The Replacement of the Acid Hydrolysis of the Feulgen Reaction by Bromination. TIBOR BARKA.....	208
Cytochemical Studies of Mitochondria in Leptomonad Form of <i>Leishmania donovani</i> , the Kala-Azar Parasite. A. GUHA, C. K. PYNE AND B. B. SEN.....	212
Histochemical Demonstration of Aminopeptidase. M. S. BURSTONE AND J. E. FOLK.....	217
Structural and Chemical Studies on the Connective Tissue of Marine Sponges. JEROME GROSS, ZELDA SOKAL AND MALCOLM ROUGVIE.....	227
A Chemical-Histochemical Evaluation of Acid Phosphatase Activity in Human Skin. GIUSEPPE MORETTI AND HERBERT MESCON.....	247
Histochemical Localization of Specific Oxidative Enzymes I. Tetrazolium Stains for Diphosphopyridine Nucleotide Diaphorase and Triphosphopyridine Nucleotide Diaphorase. EMMANUEL FARBER, WILLIAM H. STERNBERG AND CHARLES E. DUNLAP.....	254
Histochemical Localization of Specific Oxidative Enzymes II. Localization of Diphosphopyridine Nucleotide Diaphorase and Triphosphopyridine Nucleotide Diaphorase and the Succinhydrogenase System in the Kidney. WILLIAM H. STERNBERG, EMMANUEL FARBER AND CHARLES E. DUNLAP.....	266
Histochemical Localization of Specific Oxidative Enzymes III. Evaluation Studies of Tetrazolium Staining Methods for Diphosphopyridine Nucleotide Diaphorase, Triphosphopyridine Nucleotide Diaphorase and the Succinhydrogenase System. EMMANUEL FARBER, WILLIAM H. STERNBERG AND CHARLES E. DUNLAP.....	284
Histochemical Titles from Current Literature.....	295
Book Review.....	299
Books Received.....	299
Letter to the Editor.....	300

PUBLISHED BI-MONTHLY BY

THE WILLIAMS & WILKINS COMPANY

MT. ROYAL AND GUILFORD AVES., BALTIMORE 2, MD., U.S.A.

COPYRIGHT, 1956, THE WILLIAMS & WILKINS COMPANY

Made in United States of America