

THE BIOLOGICAL BULLETIN

PUBLISHED BY
THE MARINE BIOLOGICAL LABORATORY

Editorial Board

GARY N. CALKINS, Columbia University	FRANK R. LILLIE, University of Chicago
E. G. CONKLIN, Princeton University	CARL R. MOORE, University of Chicago
E. N. HARVEY, Princeton University	GEORGE T. MOORE, Missouri Botanical Garden
SELIG HECHT, Columbia University	T. H. MORGAN, California Institute of Technology
LEIGH HOADLEY, Harvard University	G. H. PARKER, Harvard University
M. H. JACOBS, University of Pennsylvania	W. M. WHEELER, Harvard University
H. S. JENNINGS, Johns Hopkins University	EDMUND B. WILSON, Columbia University
E. E. JUST, Howard University	

ALFRED C. REDFIELD, Harvard University
Managing Editor

VOLUME LXI
AUGUST TO DECEMBER, 1931

Printed and Issued by
LANCASTER PRESS, Inc.
PRINCE & LEMON STS.
LANCASTER, PA.