

THE OHIO JOURNAL OF

SCIENCE

MAY
1963

Potential Anticancer Compounds. III. Synthesis of Some 8-Substituted Caffeines and Theophyllines <i>Hans Zimmer, Joseph B. Mettalia, Jr., and R. Atchley</i>	97
A Portable Optical Planimeter for Measuring Leaf Area..... <i>Norman B. Stout</i>	103
Needed Wildlife Research <i>Charles A. Dambach</i>	106
Vascular Flora of the Miller Blue Hole and Stream, Sandusky County, Ohio <i>Donald J. Pinkava</i>	113
A Method of Obtaining Blood From the Cuban Burrowing Cockroach, <i>Byrsotria Fumigata</i> (Guerin)..... <i>John M. Joseph</i>	127
Investigations Into the Limnology of Dow Lake, Athens County, Ohio <i>Ronald W. Ward and Henri C. Seibert</i>	128
Book Notices.....	144

THE OHIO JOURNAL OF SCIENCE

Published jointly by The Ohio State University and The Ohio Academy of Science.

JOURNAL STAFF

DAVID H. STANSBERY.....Editor-in-Chief

RICHARD A. POPHAM.....Business Manager

THOMAS H. LANGLOIS.....Book Review Editor

JOINT ADMINISTRATIVE BOARD

For The Ohio State University: RALPH H. DAVIDSON, MALCOLM WEISS

For The Ohio Academy of Science: W. G. GAMBILL, JACOB VERDUIN

MANUSCRIPTS: *The Ohio Journal of Science* considers manuscripts on any scientific subject from contributors anywhere. The manuscripts may be papers or notes on recent research or symposia on subjects of scientific interest. Every paper is critically reviewed by at least one and usually two reviewers, and is subject to the approval of the editorial staff. Two copies each, of manuscript and figures, should be submitted to the Editor. A carbon copy should be retained by the author for reading the galley proof. Galley proof and engraver's proof but not original manuscript will be sent to authors. See past numbers of the *Journal* and the *Style Manual for Biological Journals* for detailed instructions concerning the preparation of manuscripts.

REPRINTS: A price list for reprints and an order form are sent with proof. Authors should allow about sixty days after publication for receipt of reprints.

SUBSCRIPTIONS: Annual subscription, \$6.00 (foreign countries, \$6.50). Single numbers, \$1.00. Issued bimonthly, January to November, six issues per volume. *The Ohio Journal of Science* is sent without additional expense to all paid-up members of THE OHIO ACADEMY OF SCIENCE.

MAILING ADDRESS: *The Ohio Journal of Science*, Botany and Zoology Building, 1735 Neil Avenue, The Ohio State University, Columbus 10, Ohio. All manuscripts, illustrations, proofs, and correspondence dealing with editorial matters should be addressed to the editor, Dr. David H. Stansbery. All remittances and correspondence dealing with subscriptions and other business matters should be addressed to the business manager, Dr. Richard A. Popham. Failure to receive any number of the *Journal* must be reported within three months of date of issue if claim is to be recognized.

Printed by the Spahr & Glenn Company, Columbus, Ohio, U. S. A.

Entered as second-class matter November 1, 1915, at the post office at Columbus, Ohio under the Act of March 3, 1879.

Date of Issue—June 11, 1963