NASA CONTRACT LISTINGS OF PUBLICATIONS
UNDER THE BEHAVIORAL BIOLOGY PROGRAM

compiled by

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of the

Biological Sciences Communication Project
The George Washington University

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Director, BSCP
PREFACE

This report lists publications resulting from research supported, at least in part, by the Behavioral Biology Branch of the National Aeronautics and Space Administration's Bioscience Program Division. A few publications, however, predate the establishment of this office but are included because they resulted from efforts which were subsequently subsumed under this program branch. Each project, indexed alphabetically according to principle investigator, reveals the published activity of each contractual endeavor. All of the more than 400 citations contained herein were provided in answer to a letter requesting such information from the principle investigator of the various grants and contracts monitored by this office.

Research programs involving large expenditures of both effort and funding must be subjected to periodic evaluation in order to identify the current state of the art for the respective field and to reveal the direction that such organized activities are taking. By this means, areas of critical need are recognized and remedied, and areas of increasingly limited interest are given appropriate attention. There are various methods for evaluating such programs only one of which is by the quantity of publications ensuing from a given activity or group of related activities. While in itself it is an inaccurate means for appraising either effort or accomplishment, combined with other factors it provides a useful measuring device. Submission of this report is made to provide some assistance in the constructive appraisal of the National Aeronautics and Space Administration's research activities in the field of behavioral science.

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1965


1. AUGENSTEIN, L., and VAN ZYTVELD, J. Macromolecular conformation changes as possible information processing mechanisms. In Symposium on the Role of Macromolecules in Complex Behavior at Kansas State University, p. 31. 1964.


*5. CORNING, W. C. Test of cross-optic transfer of habituated responses in limulus.


*Note: These have not been verified for pagination, editors, date, publisher, etc.

1965


2. BOLLES, R. C. Effects of deprivation conditions upon the rat's home cage behavior. J. Comp. Physiol. Psychol. 60(2):244-248. 1965.


1966


1962


1963


1965


1966


No Date of Publication


*34. FINDLEY, J. D., ZIMMERMAN, J., and SCHUSTER, C. Second order avoidance behavior under 24-hour control experiment. J. Exp. Anal. Behav.

PRINCIPAL INVESTIGATOR: CLARK, Fogle C.

CONTRACT NUMBER: NsG-446

CONTRACT TITLE: Effects of Schedule and Stimulus Parameters on Monitoring and Observing

1964


1965


1965


1966


No Date of Publication


*31. ADEY, W. R., and KADO, R. T. Analysis of brain wave records from Gemini flight GT-7 and computation to be used in a 30-day primate flight. Proceedings of the COSPAR Space Sciences Meeting, Vienna.


*33. COCKETT, A. T. K. Urinary reflux - the physician's dilemma. Urologia Internationalis, Zurich, Switzerland.


44. PINEDA, A., and ADEY, W. R. Hypertonic urea: its effects on cortical and subcortical evoked potentials in cat. Brain Res.


1966


1967

1964


1965


1966

1964


1964


1965


1966


1965


1966


No Date of Publication


*27. HALBERG, F. Resolving power of electronic computers in temporal pathology - an analogy to microscopy. Scientia.


-20-
PRINCIPAL INVESTIGATOR: HENRY, James P.

CONTACT NUMBER: NsC-433

CONTACT TITLE: Studies of the Development of Stress Response Mechanism

1965

1962


1964


1965


1966


In Press

1966


PRINCIPAL INVESTIGATOR: MOROWITZ, Harold J.

CONTRACT NUMBER: NGR 07-004-036

CONTRACT TITLE: Development of Techniques for the Use of Rotifers, Nematodes, and Tardigrades in Behavioral Experiments

1964


In Press
1966


1966


No Date of Publication


1963


1964


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1965


1966


No Date of Publication


In Press

1966


1965


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1966


No Date of Publication


1965


44. HALL, J. L. Processing and transmitting information through the central nervous system. IEEE Student J. p. 30-34. May 1965.


1966


-48-


No Date of Publication


*113. BARLOW, J. S. A simple time-division multiplexing system for low-frequency bioelectric signals. IEEE Trans. VME.


*115. DURLACH, N. I. Note on application of the EC model to interaural JND's. J. Acoust. Soc. Amer.


*118. KATZ, J. J. Mr. Pfeiffer on questions of reference. Foundations of Language.


*125. WEISS, T. F. A model of the peripheral auditory system. Kybernetik In Press 1967