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**NASA CONTRACT LISTINGS OF PUBLICATIONS
UNDER THE BEHAVIORAL BIOLOGY PROGRAM**

compiled by

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Sheila Rollins**

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.

Leslie A. Kulp, Ph.D.
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PRINCIPAL INVESTIGATOR: ASCHOFF, Jurgen

CONTRACT NUMBER: NsG-259

CONTRACT TITLE: Circadian Rhythms in Man Under Controlled
Environmental Conditions

1965

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PRINCIPAL INVESTIGATOR: AUGENSTEIN, Leroy

CONTRACT NUMBER: NsG-475

CONTRACT TITLE: Molecular Organization and Mental Function

1964

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PRINCIPAL INVESTIGATOR: BOLLES, Robert C.

CONTRACT NUMBER: NsG-396

CONTRACT TITLE: Temporal Factors Controlling Animal
Activity

1965

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PRINCIPAL INVESTIGATOR: BRADY, Joseph V.
CONTRACT NUMBER: NsG-189
CONTRACT TITLE: Behavior of Organisms Under Conditions
of Space Flight

1961

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- *2. BRADY, J. V. Psychophysiology of emotional behavior. In A. J. Bachrach, ed. Experimental Foundations of Clinical Psychology. New York, Basic Books, 1962.
- *3. FINDLEY, J. D. An experimental outline for building and exploring multi-operant behavioral repertoires. J. Exp. Anal. Behav. Monograph 1. 1962.
4. HODOS, W., ROSS, G., and BRADY, J. V. Complex response patterns during temporally spaced responding. J. Exp. Anal. Behav. 5:473-479. 1962.
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- *35. HODOS, W., and BRADY, J. V. Brain stimulation. *International Encyclopedia of the Social Sciences*.

PRINCIPAL INVESTIGATOR: CLARK, Fogle C.

CONTRACT NUMBER: NsG-446

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

1964

1. TAPP, J. W., and CLARK, F. C. Another solid state timer. J. Exp. Anal. Behav. 7:431-432. 1964.

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PRINCIPAL INVESTIGATOR: FRENCH, John D.

CONTRACT NUMBER: NsG-237

CONTRACT TITLE: Phenomena Underlying Behavior of Complex Living Systems in Space

1964

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17. ADEY, W. R., KADO, R. T., and WALTER, D. O. Analysis of baseline and Gemini flight GT-7 data with specification of on-line computing requirements. Proc. Second NASA Annual Biomed. Res. Conf. p. 353-378. 1966.
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- *34. COCKETT, A. T. K., KADO, R. T., ROBERTS, A. P., and MOORE, R. S. The renal lymphatics: an active fluid transport system. Proceedings of the International Symposium on Lymphology, Zurich, Switzerland.
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- *36. COCKETT, A. T. K., KAZMIN, M., MOORE, R. S., KADO, R. T., and ROBERTS, R. P. Renal lymph oxygen tension during graded renal ischemia. Surgical Forum.
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- *38. COCKETT, A. T. K., MOORE, R. S., KAZMIN, M., and ROBERTS, A. P. Extraction and bioassay of renin from kidneys of sodium-depleted and sodium-loaded rats. J. Urol.
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- *40. ELDRED, E., and BUCHWALD, J. Central nervous system: motor mechanisms. Ann. Rev. Physiol.
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PRINCIPAL INVESTIGATOR: FRY, William J.

CONTRACT NUMBER: NsG-195

CONTRACT TITLE: An Experimental Analysis of the Micro-
Neuroanatomy of the Central Nervous System

1964

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PRINCIPAL INVESTIGATOR: GALAMBOS, Robert

CONTRACT NUMBER: NsG-374

CONTRACT TITLE: Electrophysiological Research on the Brain

1964

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PRINCIPAL INVESTIGATOR: GOLDDIAMOND, Israel

CONTRACT NUMBER: NsG-450

CONTRACT TITLE: The Establishment and Maintenance of Ongoing
Perceptual Behavior

1964

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PRINCIPAL INVESTIGATOR: HALBERG, Franz
CONTRACT NUMBER: NsG-517
CONTRACT TITLE: Computer Analysis of Circadian Rhythms

1963

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