Publications of the Space Biology Program for 1975-1977 - A Special Bibliography

Compiled by J. C. Felt and T. W. Halstead

JANUARY 1978
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INTRODUCTION

The Space Biology Program of the National Aeronautics and Space Administration is an integrated research program encompassing several disciplines. The primary objectives of the program are: (1) to identify the biological systems that are affected by the space environment and to explain the responses of these systems to this unique environment, and (2) to utilize the space environment as a tool to probe biological questions that are impossible to answer on earth; thereby yielding important information to the understanding of how living systems function.

The documents cited in this bibliography represent research supported, either totally or in part, by the Space Biology Program, Office of Space Science. Only those publications which bear a 1975, 1976 or 1977 publication date and are readily accessible have been included. Articles are arranged under the research laboratory from which they originated, and these laboratories are listed alphabetically by the name of the laboratories' principal investigators.

A second list of publications resulting from related independent research performed in these laboratories is presented as a supplement. These citations are included for the sole purpose of providing additional information to the users of this bibliography.

Our intent in compiling the bibliography is twofold: first, to provide the scientific community with a listing of current publications resulting from research pursued under the auspices of NASA's Space Biology Program, and second, to stimulate the exchange of information and ideas among scientists involved in this program. Current addresses for the principal contributors to the Space Biology Program are given in the appendix.

We wish to thank all the participants of the Space Biology Program for their cooperative response to our request for an enumeration of their 1975-1977 publications.
CITATIONS

(By Laboratory of the Principal Investigator)

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(see Dr. Steward)

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UNIVERSITY OF CALIFORNIA, DAVIS


Thermodynamics of aging in Drosophila melanogaster. Mechanisms 
of Aging and Development 5: 371-387.

mathematical analysis of the mortality kinetics of Drosophila 
melanogaster exposed to gamma radiation. Mechanisms of Aging 
and Development 4: 59-69.

Johnson, J. E., Jr., W. R. Mehler and J. Miquel. 1975. A 
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structural study of degenerative changes in the dorsal column 
nuclei of aging mice. Lack of protection by vitamin E. Journal 
of Gerontology 30: 395-411.

Johnson, J. E., Jr. and J. Miquel. 1975. The mouse testis as a 
model for the study of age related fine structural changes. (Abstract.) 
Proceedings of the Electron Microscopy Society of America (EMSA) 

Miquel, J., M. M. Herman, E. V. Benton and G. Welch. 1976. Effects 
of high-LET particles (40A) on the brain of Drosophila melanogaster. 

Miquel, J. and J. E. Johnson, Jr. 1975. Effects of various antioxidants 
and radiation protectants on the life span and lipofuscin of Drosophila 
and of C57BL/6J mice. (Abstract.) The Gerontologist 15(Part II, No. 5): 
25.

Miquel, J., P. R. Lundgren and K. G. Bensch. 1975. Effects of oxygen-
nitrogen (1:1) at 760 Torr on the life span and fine structure of 

of temperature on the life span, vitality and fine structure of 

Quantitative aging pattern in mouse urine vapor as measured by gas-liquid 
chromatography. Experimental Gerontology 11: 11-16.

and J. Miquel. 1975. An electron microscopic investigation of age-
dependent changes in the flight muscle of Musca domestica L. 
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