REPRODUCED COPY
Do Not Remove From Library

RECEIVED

DEC 11 1955

OSTI

RESEARCH REPORT
NO. 16

CHEMICAL COMPANY

CH. INV. 7/2/53

MLM-305

Copy 10A

REPORT ON THE BIOLOGICAL RESEARCH PROGRAM
FOR THE PERIOD

JANUARY 1, 1949 THROUGH MARCH 31, 1949

2/3/49

INVENTORIED
8/11/52

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

MASTER

UNCLASSIFIED

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

UNCLASSIFIED

THIS DOCUMENT CONSIST OF 7 PAGES
THIS IS COPY 10 OF 14A

DATE 4/4/4 INITIALS MA/1/H

MIN-305

Contract Number AT-33-1-GEN-53

MOUND LABORATORY

Operated By

MONSANTO CHEMICAL COMPANY

MIAMISBURG, OHIO

Malcolm M. Haring, Laboratory Director

REPORT ON THE BIOLOGICAL RESEARCH PROGRAM FOR THE PERIOD

JANUARY 1, 1949 THROUGH MARCH 31, 1949

AUTHOR

Joseph L. Svirebely, Director
Health Division

March 31, 1949

~~Caution~~

MASTER

[REDACTED]

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED UNCLASSIFIED

UNCLASSIFIED

MLM-305

DISTRIBUTION LIST

Copy 1 - Mr. Kenneth A. Dunbar
Copy 2 - Mr. Kenneth A. Dunbar
Copy 3 - Dr. Carroll A. Hochwalt
Copy 4 - Dr. Malcolm M. Haring
Copy 5 - Dr. Joseph L. Svirbely
Copy 6 - Dr. Joseph J. Burbage
Copy 7 - Dr. Robert A. Staniforth
Copy 8 - Dr. Herman M. Roth
Copy 9 - Dr. Albert H. Holland
Copy 10 - Dr. Edward S. Spoorl
Copy 11 - Dr. Robert K. Davis
Copy 12 - Mr. William S. Jolley
Copy 13 - Central Files
Copy 14 - Central Files

UNCLASSIFIED

UNCLASSIFIED

MM-305

Substantial progress has been made on the Biological Research Program for the quarter ending March 31, 1949. The recent advances have consisted, for the most part, in organizing and equipping the laboratories for operation. At the present time, though all laboratories are not completely set up, experimental work can be performed and preliminary experiments have been started on each of the present projects. The entire animal colony has been installed in the new quarters and breeding colonies of rats and dogs have been established. Approximately a 50 per cent increase in the animal census has been attained by an enlarged systematic breeding program. The continuation of this plan will provide controlled, genetically stable stock animals for future experimentation. Though experimental work was interrupted by setting up and organizing the laboratories, a review of pathological material from previous experiments was made and considerable time was devoted to bacteriological examination and control studies of the Mound Laboratory water supply. A major accomplishment was completion of the analysis of data on the LD₅₀ of rats and mice. A report is in preparation.

Engineering difficulties with air conditioning, air filtering system, etc., considerably delayed the initiation of work on the research program. In the later part of this quarter these difficulties were sufficiently overcome so that it was possible to bring in and use polonium. Experimental work can now proceed.

Certain preliminary work on the various projects has been accomplished. Because polonium could not be used, this work was of necessity restricted to preparatory studies, development and standardization of techniques, and construction of special apparatus. Such work has been done with each of the current projects. The projects are as follows:

1. Metabolic distribution studies of polonium in the bodies of rats.
2. Hematological and pathological studies on rats.
3. Investigation of polonium effects upon sewage.

The project concerned with genetic effects of polonium on fruit flies has been discontinued with the termination of the geneticist.

Toxicity studies by skin absorption and inhalation studies have been discontinued temporarily in order to concentrate upon the above projects.

Reorganization of the Low Activity Group has progressed. No work was done, however, owing to temporary assignment of the personnel to other groups.

UNCLASSIFIED

UNCLASSIFIED

S/est

The specific projects mentioned above have been previously described in Biological Research Quarterly Report, October to December, 1948, KIM-265. A continuation of this research, along the lines indicated in report 3-56 will be carried out during the next quarter. Full scale operation still depends upon completion of the laboratories and the filling of staff vacancies.

KIM-305

UNCLASSIFIED