TITLE AND REASONS FOR THE STUDY: Genetics of Bacteria. This is a continuing program on the life cycles and genetic mechanisms of bacteria. Information from bacterial genetics is of the utmost importance both for the understanding and control of the individual microbes that are studied, but also for its bearing on general genetic problems: relationship of gene to chromosome, gene action, position effect, and the nature of viruses.

RESULTS OBTAINED TO DATE: See attached sheets on RF 54:217

PROCECURE: This is also outlined on the attached sheets. With no substantial exception, the research depends on laboratory studies in this department.

FINANCIAL SUPPORT: Last year's request was qualified by a reasonable expectation of a fellowship award which did not, however, materialize. The budget is comparable to last year's, except that other sources will suffice for supplies. Again the fourth assistantship, if allotted, may be vacated if certain fellowship prospects are achieved but this cannot be anticipated now. The requested budget follows:

4 12-month assistantships, at 1,500	6 <b>,000</b>
Hourly help (dishwashing)	500
	5,500

If required by stringency of funds, one of the assistantships might be pared to a ten-month appointment, as it is uncertain whether the candidate would begin in July or September.

## PERSONNEL (assistants)

- 1. Mr. R. E. Wright (M.S., Biochemistry, U.W.) Incumbent and an excellent student and assistant.
- 2. Mr. Tetsuo Iino is a Japanese student who will not arrive until February 1955 owing to shortage of research space here. He has the equivalent of an M.S., some research experience in microbial agents, excellent recommendations, and a Fulbright travel grant.
- 3. Miss R. Ruth Zloten (M.S., Genetics, Manitoba) has spent this year working as an assistant in another laboratory (Professor Berman, Vet Sci.) for the same space reasons. Her work as a student and assistant to date appears to be commendable.
- to be chosen from current applicants; or, if required by rearrangement of funds, may be used to pay part of salary of a full-time technical assistant (Mrs. Dorothy Costing, M.S., Bacteriology, Wis.)

Joshua Lederberg Professor of Genetics University of Wisconsin

December 20, 1954

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