

May 18, 1956

REPORT ON RESEARCH PROJECTS
for the
FISCAL YEAR 1955-56

I. Name LEDERBERG Joshua Dept. Genetics Proj. No. 55:233

Title of project Genetics of bacteria

II. Personnel: **M. L. Wright**
R. E. Wright
Tetsu Iino

III. Statement of other financial support, if any, for this project:

National Institutes of Health	8 500
Rockefeller Foundation	6 000

IV. Brief statement of specific progress made during the year:

1. Phase variation in *Salmonella* has been found to depend on a reversible change of state of a gene (H_2).
2. Position effect groups of Gal loci are being correlated with specific enzymes (galactokinase and UDPGal-transferase, respectively) but there are some exceptions.
3. *E. coli* K-12 mutants showing different patterns of segregation have been isolated.
4. A method for producing protoplasts in *E. coli* has been discovered, which indicates that the mechanism of action of penicillin is to inhibit wall synthesis.

V. Publications that have appeared in print from July 1, 1955 to June 30, 1956.

See attached list

VI. Manuscripts accepted for publication but not yet printed:

See attached list

The pink copy should be returned to the Graduate School Office on or before August 1, 1956. The blue copy is for your file.