

May 26, 1958

REPORT ON RESEARCH PROJECTS
for the
FISCAL YEAR 1957-58

- I. Name Lederberg, J. Dept. Genetics Proj. No. 57:250
Title of project Genetics of Bacteria
- II. Personnel: Constance Thomas Project asst.
Y. Hirota Research asst.
T. Iino "
Ann Cook "
- III. Statement of other financial support, if any, for this project: and related projects
- | | | | |
|-----|--------|-------------|-------|
| NIH | 12,000 | Rockefeller | 7,000 |
| NSF | 7,000 | | |
- IV. Brief statement of specific progress made during the year:
1. Genetic analysis of phase variation in Salmonella has been completed and is being prepared for publication.
 2. Acidine Orange specifically induces the loss of the F factor in E. coli, i.e., it converts males into females.
 3. Penicillin - induces protoplasts of E. coli retain the capacity to mate. Lysis by water interrupts the mating of a σ protoplast X μ rod, and results in partial fertilization.
 4. No further progress on the transfer of genetic information by DNA in E. coli.
 5. (Fulbright trip to Australia.) Single lymph node cells from doubly immunized animals produce only one or the other variety of antibody.
- V. Publications that have appeared in print from July 1, 1957 to June 30, 1958:
- See attached sheet: Items checked. (66,67,68,70,71,72,74,75)
- VI. Manuscripts accepted for publication but not yet printed:
Bacterial Reproduction. Harvey Lecture (Dec. 19, 1957)

The pink copy should be returned to the Graduate School Office on or before August 1, 1958. The blue copy is for your file.