

RUTGERS UNIVERSITY

The State University of New Jersey

INSTITUTE OF MICROBIOLOGY

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NEW BRUNSWICK, NEW JERSEY
CHARTER 7-1766

Dr. Joshua Lederberg
The University of Wisconsin
College of Agriculture
Department of Genetics
Madison 6, Wisconsin

Dear Josh:

Thanks for your letter and information. What I would like to get from you is the streptomycin-resistant mutant of W-1 and 58-278, which were isolated by replica plate technique, but never exposed to streptomycin.

High degree of resistance is very convenient for me. I would like to compare some of their biochemical properties before and after exposure to streptomycin. I want to see if replica plating isolates completely phenotypically expressed mutants or if the contact with streptomycin induces some change in 100% in cells. I shall make my own isolations too, but I am not quite settled yet, being only 3 days in New Brunswick. Your cultures may save me some time.

This problem is interesting for me because I was able to cause a complete, high degree streptomycin "adaptation" in 100% of non-growing cells. It looks like a cytoplasmically inherited resistance.

I am looking forward to seeing you in New Brunswick, at which time I shall explain this in more detail.

Yours sincerely,



Waclaw Szybalski

WS:DP