THE UNIVERSITY OF WESTERN ONTARIO
FACULTY OF MEDICINE

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY
THE HAMILTON KING MEEK MEMORIAL LABORATORY

375 SOUTH STREET,
LONDON, CANADA

August 5th, 1952

Dr. Joshua Lederberg
Department of Genetics
University of Wisconsin
Madison, Wis.

Dear Lederberg:

It was very kind of you to send the reprints and the preprints of summaries of papers in press.

I am very interested in the studies on lysogenicity because, as I told Zinder at Boston, we have just started some cytological work to see what happens to the structure of an indicator strain during symbiotic infection. We have been using Boyd's A phages on Salmonella typhiaurium. The cells become definitely "sick" and usually increase considerably in size; a proportion lyse but the majority recover and become perfectly normal in structure. I have a Bacillus cereus phage system that shows similar effects.

Bertani sent me two lysogenic strains of his Shiga system - one that would carry only one of a serologically related group of phages and the other that would carry two. According to his working hypothesis the latter should be diploid. After looking at them hard from several angles I could not say which was which from cytological observation. However, I note that you say that some people have a good batting average on recognizing diploids. Would it be possible for you to send me a haploid and diploid strain or, if you prefer, some preparations of them? They would be helpful in some of our studies of normal nuclei as well as being a consciencious control of my observation on Bertani's strains.

With best regards

Yours sincerely

RM:ns

R. G. E. MURRAY, M.D.
Professor