Dear Luria,

I with I were out there at CSH myself. It gets damnably hot here!

Those cultures you wrote for will go right out to Miss Maan. I am

very pleased that you want them.

Lately I've been finishing up some work on the genetics of the phage resistance patterns "K/L" and "K/L,5", or as they may alternatively be written V." and V.L.", since these are definitely non-allelic. Novick sent as a culture of The, and as you might expect, V.L. is resistant, V.L. is sensitive. Both from wild type and from "K/L", /th types have been found, almost the of them resistant, but L few sensitive to T5. I have the impression from your papers that in call 3, D/lh is always resistant to T5. However, you indicate that some of the virus mutants — any differ from each other. In what respect? If you have preserved than, would it be worthwhile to test them on the K/lh T know have? — Also, a large series of "K/L/Ch were tested, and they were all still sensitive to Th. However, K-L. differs from B, as you pointed out in giving clearcut recistant mutants to T2 and T2h. Would you care to see the manuscript, in accurate of meeks, before I send it in?

In connection with my embryo program on Salmonella genetics, I came across the lysogenicity of S. typhimurium S21 on S. gallinarum 336. It is a little puzzling to me that none of several hundred survivors of S21 treated with very heavy doses of ultraviolet has failed to carry the lysogenic phage! I would like to find in a phage-free S21, and propose now to try some specific anti-phage agents, perhaps Phosphine GRI or descriptionine. Burnet reported that antiserum had no

sterilizing effect. It seems possible that a) virus reactivation prevents the disinfection of the cell, b) that irradiated virus may prevent cell solutiplication or e)that the bacterium has for set an adaptive symbolate relationship of some sort so that the disinfected cells ab not often survive. I am convinced that inablese cases of "per meant" lysogensis, the phage in transmitted intracellularly, elthough it may be excreted only upon the occasional lysis of a cell. It will be difficult to do absorption expts. on the injected cells, but it may be possible to do so rathing with virus mutuats.

loot regards,

Sincerely yours,

Joshua Lederberg.