

May 23, 1960

Dr. Arthur Pardee
Department of Virus Research
University of California
Berkeley, California

Dear Art,

I am enclosing the data on inactivation of the ability to form β -galactosidase after UV on the transducing phage. The value of erg min^{-2} on the abscissa is taken from the Slope of the T2 curve (see Luria and Dulbecco, Genetics Soc. Amer. 18:102, 1949), and may be off 20%. Curve 3 measures the slope of the linear rate of enzyme formation, from 90 to 240 minutes after infection with HFT lysate of P1 lac exposed to various UV doses.

I regret to say that at this point the experiment on inactivation of the i^+ locus appears to be completely negative, contrary to the original appearances. We have used lysates with 0, 8, and 10 hits on the lac property (0, 400 and 500 seconds) and used them to transduce the strain with the lac deletion (see curve 4). Up to now, 80/80 transductants are still i^+ after UV (50/50 i^+ in the control). Of course, this result may have many interpretations.

I look forward to hearing more from you. With best regards,

Sincerely yours,

sel/na

S. E. Luria