July 26, 1965
tr. Roy H. Doi
University of California
Department of Biochemistry and Biophysics
Davis, California 95616
Dear Roy:
This is a somewhat belated reply to your letter of July lat.
Things have been very hectic around here, the Rala problem having broken wide open and things are going along fantestically well.

Yank observed cross reactions amongst the bacteria from the very beginning. That is why we used viral and mammalian DsA to check for specificity. Subsequently, we carried out fairly extenaive examination over the past few years of this cross hybridization. This was started by Yankofsky and has been continued by David Gilleapie in the bacteria and by Ritossa in higher forms. The central isaue is to check whether a heterologous hybrid with ribosomal RuA actually involves the "ribosomal cistrons" of the challenging Dif. We have been using the Drosophila material as well as various strains of E. coli which we have found contain different doses of the ribosomal RIIA to control this. Without this sort of information, no certain concluaions can be drawn. We will probably be writing much of this material in the near future. The trouble is we have so much because ve waited until we were certain. The amount of ribosomal homology is amazing (e.g. $30 \%$ between chicken and drosophila).

I am sending you a copy of a paper which is to appear in the JNB which describes our new method of hybrid detection which is extremely accurate, sensitive, and convenient. I am also including a preprint on our RKI synthesizing system. I am just in the process of finishing up three more papers on this system. The reason why this work has suddenly blossomed forth is that we have finally been able to make infectious RIA in the test-tube in massive quantities. This gives us confidence that we are really atudying the right reaction. Also, under separate cover, you will receive some more reprints of a paper given at Marsellies.

I do hope to be out on the West coast in late October aince I will be attending a meeting of the Academy in Seattle. It is more than likely that I will be in and around the Bay area the week of October 18.

With kindest regards,
Sincerely yours,

