STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO :

DATE: 2-5-50

FROM :

SUBJECT: Dear Josh,

Here is the first batch from H 226. Incidentally, since time + especially typing space is limited here, I'm only carrying H 226 at the moment. ~~If~~ If ~~you~~ you want to go to another culture, I'll have you send it on.

H 226 is the toughest one to work yet. Tends to have a long lag, fewer of the cells from an EMS ~~plate~~ colony ever do grow, has a terrific tendency to form filaments — then — which part of mess up the relationships. I indicate on my sheets how the separations are performed though in the cores.

I've jotted some note re microcolony morphology. There seem to be several types, maybe 4. I'll be interested to learn if these types correspond to any segregations etc. With the others (H 168 etc) I used to guess if a colony was a segregant by its size (growth rate) + sometimes cell size. Incidentally, cells of some of these families are the smallest I've ever seen, 0.12 + descendants for example.

I'm sorry I don't have your letter here so can't recall all your questions. I haven't done any writing. In the connection, what do you want to say to the bacteriologists? I.e. could you sketch out an outline indicating the main points you want to make + where one draws the line so for as any genetic analysis goes? We will publish with together. Would it be worthwhile to stick a little note re the technique in Science? But I hate using sole author on either of them.

As for cores of "pure haploids" on initial plating + then finding a few lav+ colonies, the usual case is: a plate with about 500-1000 colonies appear all negative. But on careful inspection, you find a couple of very small colonies which on streaking prove to be lav+. Hence probably only means a low frequency of lav+ variants. ~~But~~ But they aren't typical mosaic colonies either.

I have done a little work on the new job too. I don't know if I have earned a dollar at it though. I'm doing two things about or for apart on the genetics spectrum as you can get - about on human populations and single cell studies. It's amusing in a way.

I won't be able to do any more until I make you now as I'm off on a rover mission to Oak Ridge 3 days or Los Alamos 3 days day Wednesday. Then I hope to do about three or more on the weekend.

After March 9th I should have some time to do some writing but not before.

Most so idle rumor has it you are going to Oak Ridge to give a seminar + to have a look at a possible job. While Oak Ridge is fantastically equipped etc, and a good place to get a lot done, and also nice in my present capacity I should be glad to know the A.E.C. hire the best people possible + have should encourage you. I would sort of hate to see you get out of University work. It seems to me you could contribute a lot through graduate student training or well as by your own research.