

VANDERBILT UNIVERSITY
NASHVILLE 4, TENNESSEE
DEPARTMENT OF BIOLOGY

October 18, 1951

Dear Josh,

As you see by the letterhead I am now at Vandy.

The s^+ story is finished and I'll ship you a copy as soon as Mitchell gets thru' with it since I would appreciate your opinion. I never got any farther with the biochem analysis. Though I did perform a lot of crosses I can't figure any consistent linkage relationships and I have no reversed auxotrophs so that leaves out Bailey's methods. The s^+ sm^R Mal- Xyl- group of W1177 goes together in crosses of W1177 X various auxotrophs so that there is probably some selection for this group. I would like to test 58-161 for s^+ and use it for setting up crosses to obtain data to which Bailey's methods are applicable (I can't get s^+ to walk around between auxotrophs easily - it doesn't mutate one way or the other, there are probably two loci anyway, and the only possible reversed auxotrophs I have are reversed with respect to loci so far untreated a la Bailey - phage resistance T6 and streptomycin). If you could send me 58-161 and the Lac-VIR derivative of it I would appreciate it, if there is a Y9 Lac-VIS, (Y532) I could also use it - I take it that mutation to T1 resistance is of only two types, to T1 alone and to T1 and 5 simultaneously and that the locus is the same?

Unfortunately I foresee little research here - the teaching is fairly heavy, genetics, general physiology, and elementary zoo and there is no equipment or funds. However it was this, starve, work for North American, or industry (which would have paid the same as here but without 3 months off). I'm probably here for only 1 year anyway and will leave this summer to get some research done. However I do want to see if Bailey's formulation applies to s^+ .

Ryan should be back by now. The Columbia group is somewhat scattered. Norman's paper in Exp Cell Res looks quite interesting. Peg Lieb dropped in on Atwood and myself - she wants some of my stocks for crossing but CalTech has a full copy of them anyway.

Ernie Nelson

Did I ever send you reprints of the kinetics stuff for your group? You're on the 100 list but your people aren't. If you have any copies of the heterozygote segregation and sm dominance papers and the Science note could I have one.

58-161
87
V10 Y53