March 23, 1951.

Dr. C. A. Stuart,
Brown Univorsity,
Providence 12, R.I.
Dear Dr. Stuart:
I trust that the mutant cultures recently sent to you have arrived safely, and hope that thoy will prove to behave satisfactorily in your hands.

Our survey of the 40 E . coll strains recorded in your letter of Fobruary 21 is nearly completed. I was very pleased to find two strains, "BB34" and BB45 which have given a rather clear result in tests to find recombination with strain K-12. The former appears to be a pure lactosenegative culture, although it ferments sucrose promptly. Is this in accord with your original description? The strain W-1 also gave a auggeatitw, but not at all decisive result which is boing examined further. This strain is masa lactose-negative, and is also one of the fow strains in this collection to show a colicin action on K-12.

I should be very curious to have any further information you may have recorded on the source, relationships, and behavior of the three strains mentioned above. I would also appreciate very much the realization of your offor of small volumes of antisera for these strains, if still available. The sera would be used to compare these parents with others used in interstrain crosses, and to charactarize progeny of such crosses if they succeed between serologically distinguishable parents, for which other experiments have provided some precedent.

The only other cultural peduliarity worth mentioning for this series is that 26711 was a mixture of maltose-positive and matabile maltose-negative forms. The former may well be secondary to the latter. I have found quite 2 fow mal tose-negative "matabile" isolates in the course of this work, some of which are so unstable that they would probably usually be recorded as prompt or slightiy delayed formenters in formentation tests in liquid medium. But I doubt if this is of any more importance than the commeniscommanior difference.

Yours sincerely,

Joshua Lederberg,
Associate Professor of Genetics

