

STANFORD UNIVERSITY  
STANFORD, CALIFORNIA

*Koffel*

DEPARTMENT OF MEDICAL MICROBIOLOGY

September 15, 1958

Dr. Joshua Lederberg  
Department of Genetics  
University of Wisconsin  
Madison, Wisconsin

Dear Josh:

Following our conversation of a week ago, I have gotten together the abstracts and reprints which I have concerned with immunologic tolerance (in some cases accomplished with early postnatal injections) with nonviable antigenic antigens.

Sterzl, J., and Trnka, Z., 1957, Nature, 179: 918 (heat-killed Salmonella in new-born rabbits).

Harris, R. J. C., and Simons, P. J., 1958, Nature, 181:1485 (chicken stroma and Rous sarcoma).

Cinader, B., Pearce, J. H., and Carter, B. G., 1958, 181:1208 (bovine ribonuclease in new-born rabbits). This contains references also to work with other proteins.

Hasek, M., and Hraba, M., 1955, Nature, 175:764 (chick embryos--my brief abstract does not indicate antigen).

Other experiments in fowl erythrocytes (implantable ?) are: Billingham, R. E., Brent, L., and Medawar, P. B., 1955, Ann. N. Y. Acad. Sci., 59:409; Simonsen, M., 1955, Nature, 175:763.

Tempelis, C. H., and Wolfe, H. R., have published work on bovine serum albumin in chick embryos. The report which I have of this indicates, in late 1957, results in press. Wolfe, however, is at your University.

Weiss, D. W., and Wells, A. Q., 1957, Nature, 179: 968, and a recent paper by Weiss in the Journal of Experimental Medicine of three or four months ago. I do not have the reference at hand at the moment, and I am about to depart for the east. This work was with tuberculoprotein.

Cohn, M., 1957, Ann. N. Y. Acad. Sciences, 64:859--unsuccessful in chick embryos with protein.

Dr. Lederberg

2

September 15, 1958

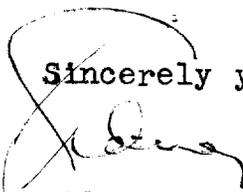
You have references to Buxton and some of the other people whom we talked about. Not all these references which I give here will be pertinent, but in case you haven't seen some ~~they~~<sup>of them</sup> may be worth a look.

I have done some thinking about the interesting things you told me concerning possible rearrangement of DNA as accounting in part for tolerance, and I wonder whether this viewpoint may be related to that proposed by Schweet and Owen as given in the "Symposium on Antibodies: Their Production and Mechanism of Action," the Oak Ridge sponsored meeting of April, 1957, printed in volume 50, supplement 1, of the Journal of Cellular and Comparative Physiology, December, 1957, page 199. These people propose that antibody synthesis may be accounted for by a somatic mutation induced by antigen, the appropriate message then being transferred to RNA-protein in the microsomes. Perhaps we can talk about this next time you are out here.

We enjoyed the visit by you and your wife very much indeed, and we hope that you will come out this way again soon.

All good wishes.

Sincerely yours,



Sidney Raffel

SR:RB