

Department of Genetics

December 25, 1958

Professor Hugo Theorell  
Karolinska Institutet  
Stockholm 60, Sweden

Dear Professor Theorell:

I am sure I do not have to recapitulate the appreciation of a Nobel laureate for the consideration and hospitality of his colleagues during an occasion like that of this past month's. My wife and I are deeply grateful.

Our discussion of enzyme structure was also most illuminating, and I was delighted to hear of your analyses of amino acid sequence in cytochromes. May I remind you of my request for reprints of the relevant papers?

I am enclosing a primitive paper of my own on some aspects of the kinetics of the  $\beta$ -D-galactosidase of *Escherichia coli*. In fact, Steve Kuby who was working in your laboratory last year followed this up in much more detail in: *J. Am. Chem. Soc.*, 75, 890, 1953. I am sure that this enzyme deserves as much attention from physical chemical approaches as it has had in physiological genetics. Now that it has been crystallized, and with the accessibility of machinery for growing large masses of the bacteria (which contain 1-2 pc. of this enzyme under suitable conditions) one might hope to find renewed interest in it. The cation effects are among the intriguing aspects.

The chromogenic substrate can be readily purchased from the "Mann Research Labs., 136 Liberty Street, New York 6, N.Y." at \$20 per gram, which goes a very long way.

Yours sincerely,

Joshua Lederberg

THEORELL, H.