January 29, 1951
(Dictated January 27, 1951)

Dr. Sven Card
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Dear Sven:

The galleys of your paper on hemagglutinin by Col-MM-Virus reached me this morning, and I have just corrected them and returned them to the publishers. They did a good job on it, and in order to avoid delay it seemed to me that it was not necessary to send them on to you. This means that your paper should appear in the next (January 1951) issue of the PROCEEDINGS FOR THE SOCIETY OF EXPERIMENTAL BIOLOGY AND MEDICINE. In accord with your request, I have ordered 100 reprints without covers which will be mailed to you directly along with the bill. I hope very much that you will send me one of the reprints.

Because of my personal affection for Leslie Alm, I was a little troubled by what you wrote in your last letter concerning his thesis. Since I did not have the opportunity of seeing his thesis, I was unable to make any comments. However, several days ago I received the published copy from Leslie. Does this publication mean that the thesis has been accepted, or does publication have no relation to acceptance? I have not yet had an opportunity to read it in detail, but I must confess that I, too, am disappointed in the presentation. I am particularly disappointed in the portion labeled "Encephalitis with Cytoplasmic Inclusions." When Leslie was in Cincinnati, I went over a great deal of my neuropathologic material with him and pointed out that some of the things he called inclusions were not at all abnormal and are commonly found in certain neurons in the brain stem, particularly those of the substantia nigra. Other things that he called inclusions, I have observed many times in various types of degenerating cells. I was also sorry to find his clinical and pathological descriptions very inadequate. As a person who has been interested in the clinical, pathological and virological aspects of the nonbacterial infections of the nervous system, I find his presentation regrettably deficient in those details which would make it possible to integrate his observations into general experience. It would also appear that I did not succeed in exerting any appreciable influence on Leslie during our otherwise very pleasant and delightful association.
Needless to say, these comments are confidential. Whether or not rejection of his thesis will help Leslie's further growth and development, I do not know. I have found him receptive to constructive criticism, and I dare say that as time goes on he should be able to contribute more critical and acceptable data.

The recent experience in this laboratory with herpes virus has shown that while on one occasion it proved possible to obtain a virus with a titer of $10^{-6.6}$ when the source of the virus was newborn mice not older than three days, repetition on a larger scale yielded material which was one log less potent -- not unlike that obtained from the brains of mice approximately three to four weeks of age at the time of inoculation. There would still appear to be certain factors unrelated to the strain of virus which are of importance in yielding high titers that are not altogether clear to me.

With all good wishes and kindest personal regards,

Sincerely yours,

Albert B. Sabin, M. D.

P. S. I have heard that the people in charge of arranging the polio congress in Copenhagen have run into some unfortunate difficulties with our National Foundation for Infantile Paralysis. I would be very much interested in having your views on this subject if you care to write me about it.