

Paris le 12 Octobre, <sup>58</sup>

Dear Maxine,

I am already in Paris since 2 weeks, but I had to do so many things which are waiting in the lab that I just got ~~to see~~ how to read carefully our paper - I think more and more that the inhibition of poly A polymerisation or exchange by poly U and vice versa is due to ~~some~~ the interaction of poly A and poly U. ~~When~~ I heard Severo discussing Poly phosphorylase at Vienna and saying that the primer effect is ~~specific~~ of polynucleotides is specific. His evidence is that poly A formation is not stimulated by poly U and vice versa, but they are both stimulated by poly C and ~~that~~ <sup>this</sup> is the only evidence for specificity. It could be better explained by the interaction of poly A with poly U - and I don't think that he really has an evidence for specificity. It seems to me that it is really an important point to test the inhibition of the enzyme by the multi stranded configuration. I wonder if you did more experiments to test this point - ~~your~~ <sup>your</sup> data ~~with~~ <sup>with</sup> preincubation the enzyme with the complex poly A poly U seemed to be encouraging - instead of having an additive effect by adding the complex to GDP you have an inhibition of 30% -

	0.11	GDP alone
	0.08	GDP + complex
	0.04	complex

2)

Going back to the paper, I think it ~~would~~ <sup>would</sup> be fine if the phosphorolysis data are included.

Just ~~for~~ some little things

p. 6 last line at a GDP/p<sub>i</sub> ratio of 0.5 and 0.01 M MgCl<sub>2</sub> I think it is 0.001 M MgCl<sub>2</sub>.

p. 7 Discussion of dinucleotide stimulation - Didn't we conclude that there is a stimulation when we use little enzyme and no stimulation ~~to~~ when we use more. In ~~any case~~ we ~~have~~ we ~~if not~~, I think that we can just say that the results are inconsistent, ~~not~~ but the stimulation was ~~not~~ <sup>not</sup> big. (not go through all the results)

p. 8. may be emphasize that all the 3' ended gave a stimulation as big as the 5' ended, if not bigger.

p. 11 It seems that there is a stimulation of exchange of P<sup>32</sup> with TRPP by poly U. ~~What~~ is it consistent? Certainly the stimulation is only 15% but it might be significant. Particularly that the exchange with TRPP seems very low and if I remember well the exchange with Coli enzyme is as good as with ADP.

I am writing now the paper on phosphorolysis and I will send it to you as soon as I write it. Doty suggested to publish it on the new journal "Molecular Compensation" what do you think will it be a good journal?

How was the meeting in New York? what is new? have you seen Levens and discussed with him?

Long asked me to write the description of "polynucleotide phosphorylase and <sup>nucleoside</sup> desoxyribosylase" Hae with enzyme Brock J 1952. for a Biochemist Hand book. I write already about. but I don't found anything else for the last enzyme that the two Hae null papers. Do you know by or Leon knows something else or more recent on this enzyme?

I am very luck to have Alice del Campello now Alice Campelle with me this year and she already started the purification of yeast enzyme.

I don't think there was really something new in Vienna and the high polymer symposium looks pretty dull to me. The protein symposia was nice and I enjoy very much the one on virus. I don't remember if I wrote to you about it. But Gierer in Schramm's laboratory gave a nice talk. He found that he can treat infective <sup>TMV</sup> RNA with vitamins and desaminate the bases. The RNA is still infective but he it produces virus mutant. He can treat the ~~isolated~~ TMV RNA after isolation or just treat the virus and isolate the RNA after in both case. The RNA produces mutant virus. I wrote a letter to your friends Jean Claude et Madeleine Gautier.

Catherine and Armand are fine. Armand has now an exhibition in N.Y. "Niveau Galerie" Madison at and 74 St. I believe. The exhibition will be until the 23rd of October. If you will be in N.Y. Could you go and tell us how it was?

I enjoyed to see Earl and Terry in Paris. We went shopping with Terry ~~and~~ through all the shops in Paris.

Please give my best regards to all my friends particularly to Russ, Leon and Bernice. When is he going to N.Y.?

Best regards to your husband et <sup>and</sup> to you  
 Sincerely  
 Marianne

P.S. Can Russ send to me an Aszobacter slant and

all the instructions for growing cells and purifying the enzyme - By the way did you repeat the purification?

The Szul masters send you their best regards.