

CALIFORNIA INSTITUTE OF TECHNOLOGY  
PASADENA

DIVISION OF BIOLOGY

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Dear Rosalind

Leslie, Dor Casper, and I have all read your MS which we think quite good. Thus the following criticisms are only at 2nd degree importance

1) I believe Schlesinger should be given more credit for the sub unit idea - especially his Zeit-Nature 1947 article. I was most aware of his ideas when I began work on T14V.

I am also not convinced that Schlesinger is wrong with regard to the amino acid group

Schlesinger also was the first person to show aggregation of RNA free subunits [in 1943!!]

2) I was not so emphatic about the location of the RNA - I believe I was quite cautious with "ifs" - only said "suggested"

3) Size of sub unit

$$5 \times 10^7 \times 95\% = 4.5 \times 10^7 / \frac{37 \times \frac{3000}{68}}{\text{[redacted]} \rightarrow \text{[redacted]} = 35,000}$$

so even better than 29,000  $\left\{ \begin{array}{l} \text{1 red taken} \\ \text{M.W.} = 4 \times 10^7 \end{array} \right\}$

N. Nature  
1/12-1/21  
267 (1947)  
269-257

- 4) I wonder about the 55 Å shell. Your statement about the  
6th layer line makes me suspicious that low hydration is the  
sole answer but since I have not seen your F.T., my comment  
is possibly foolish.
- 5) The argument about the large available surface seems plonky  
to me. Most non aggregated proteins will have a far more  
accessible surface.
- 6) The Proline remark will probably confuse the non  
initiated. Needs a diagram to be clear. I would  
leave it out.

In spite of these criticisms, a very nice summary of  
TMV status.

With best regards

Jim