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September 30, 1964

Dr. Julius H. Comroe, Jr.  
Director, Cardiovascular Research Institute  
University of California Medical Center  
Third and Parnassus  
San Francisco, California

Dear Julius:

A propos of our discussion the other day I thought I should send some of the following references to you.

- (1) On suspensions of polymer serials of diameters from ten microns down
  - (a) There is a rather general account by Thomas et al in the Annals N. Y. Acad. Sci. 78:793 (1959). I should also refer to the product that the Difco Laboratories sells, "Bacto-Latex 0.81, which has a mean particle diameter of .81 microns. As you know, dispersions of even smaller particle size are much used as reference materials in electron microscopy.
  - (b) Sidney Fox and his colleagues have been having great fun with the synthesis of "microspheres" obtained in the course of the chemical simulation of protein synthesis: Fox, S.W. and S. Yuyama, Ann. N. Y. Acad. Sci. 108: 487 (1963).
- (2) On microencapsulation we did not find much in print, but Dr. George Brown at the Stanford Research Institute did some work for us in connection with our exobiology project which would indicate that it would be feasible to think of the simulation of a capsule the size of an erythrocyte.
- (3) The leading reference on the cobalt histidine complexes that take up oxygen is by Dean Burk at al in the J. Biol. Chem. 165:723 (1946). I am checking again to see whether the rate constants really are as nearly comparable to those for hemoglobin in combination with oxygen as I had recalled.

I am just dashing this off, but hope you might find some read~~y~~ interest in it.

Sincerely yours,

Joshua Lederberg  
Professor of Genetics

COMROE