September 22, 1971

Dr. Edward C. DeLand
Physical Sciences Department
The Rand Corporation
1700 Main Street
Santa Monica, California 90406

Dear Dr. DeLand,

Thank you for your letter of September 15th and for the report on models of individual blood.

We have goals that are clearly convergent although our approaches differ in a number of respects. Our primary interest is in qualitative organic analysis; our principal tools are gass chromatography and mass spectrometry, under computer management, and we hope to facilitate the identification of metabolites, as well as environmental toxins, which may help point to health hazards. The global picture must also include models of metabolism with which to integrate observable data on the occurrence of various intermediate products. I am glad to return your courtesy with some of our publications, most of which have yet to demonstrate a bearing on medical problems.

Although our own work is in a somewhat different direction I am, I think, very well imbued with the importance of the approaches that your work emphasizes. I have only a limited enthusiasm for purely empirical approaches to "multi-phasic screening techniques" and the elaboration of reliable models, along the lines of your work, is an indispensable basis for their intelligent application.

I am sure you will want to be in touch with Maurice Cullen's group at Kaiser Permanente in Oakland, which is undoubtedly one of the most active centers in the country for the collection of multi-phasic patient data; and on some occasion you might wish to visit here where you would indeed be most welcome.

Sincerely yours,

Joshua Lederberg
Professor of Genetics

JL/rr

DeLAND, Edward

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