PLAINTIFF'S EXHIBIT
API-110

February 9, 1953

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Dear Bob:

Thanks much for the copy of the tabulation of data from Project 42 and for your kind offer of samples for our study for Project MC-1.

We are aiming at a fairly close definition of the range of molecular weights and the structural types of hydrocarbons which are capable of accelerating the rate at which typical polycyclic carcinogens (e.g., 3,4-benzpyrene) will induce skin tumors. Thus far, monoalkylbenzenes and monoalkylcyclohexanes with 16-18 carbon atoms have exhibited such properties. Sec.-amylbenzenes, on the other hand, have no accelerating activity whatsoever. No disubstituted benzenes or cycloparaffins have been tested thus far.

The biological tests for accelerating activity require 25-50 grams of the hydrocarbon which is to be used as the solvent for benzpyrene. The following are examples of those which should be studied:

PSC No.	Hydrocarbon	Carbon No.
538	1-Phenyloctane	14
502	7-Phenyltridecane	19
534	n-Hexadecane	16
163	9-n-Hexylheptadecane	23
559	1-alpha-Naphthylhendecane	21
517	1-Phenyl-1-cyclohexylethane	14
575	Perhydrochrysene (if liquid)	18

We should appreciate your suggestions of alternate compounds with 13-26 carbon atoms if any of these listed above are in short supply.

Sincerely,

A. Wesley Horton

AWH:mjg