3rd May, 1958.

Dear Slater,

Rob Race was telling me the other day that you had or had been gathering a considerable body of twin pairs classified as monozygotic and dizygotic.

I have recently been suggesting that researches into the supposed causation of lung cancer by smoking should at least be supplemented by an examination of the evidence as to whether or not the smoking classes (non-smokers, cigar-smokers, etc.) are genotypically differentiated. As a geneticist I should expect them to be, for the habit adopted is usually autonomous and not imposed by social conditions, and it would indeed be difficult in most cases to persuade a cigarette-smoker to change to a pipe, or vice versa. However, objective evidence is obtainable by several paths, one of them obviously being a twin study comparing the degree of resemblance in smoking habit of monozygotic with that of dizygotic twins.

I have recently received from von Verschuer a number of twins so classified and who had filled in a short questionnaire on smoking habits and history that I had drafted. The degree of resemblance among the monozygotes is decidedly greater than that in the dizygotes, so far confirming what one would expect. Another good way of exhibiting the same fact, or of gaining independent information from another angle, would be by the use of blood groups.
However, the main principle I have in mind is that medical research should not be of so narrow a front as seems to have been taken for granted by the M.R.C. "Statistical Unit", but that other questions of obvious relevance to their conclusions should, when the means are available, also be investigated. \textit{Do your own material accessibility.} Sincerely yours,