

4 December 1944

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Dear Taylor,

I am enclosing two copies, for ~~you~~ and Race, of the calculations on the use of the Rhesus factor in questions of doubtful parentage and paternity. This, as in the case of the other factors, is based on the supposition that mutation is too rare to be considered, but of course if there is crossing-over between the antigenic elements in the case of Rhesus, the basis of the whole thing would be altered, and we should need to know ultimately the order in which these elements occur in the chromosome.

In these calculations, as you will see, I have ascribed zero per cent. to R_y , but this does not mean that the possibility has been ignored, for (as I explained to you) unless R_y had been proved to be non-existent, the possible phenotypes from parents of given phenotype are in some cases quite largely affected.

Stratton has sent me a pedigree (with family name Mason) which

he says is being verified in your Department and which, if verified, does seem to imply a cross-over. I shall be most anxious to know what your own findings are.

Yours sincerely,