My dear Rob,

a few hundred people all with a large number of different reagents, summarised in a list of the number of genotypes which appear once, twice, three times and so on in these series. When you were here I forgot to take up the point with you, but you make the point that the usefulness of a blood group locus is measured in an inverse sense by the sum of the squares of the phenotypic frequencies. It is relevant that this quantity is directly estimated from such a record as

a₁ genotypes appearing once

a₂ " twice

a₃ " three times

out of

For the expected value of

a2 + 3a3 + 6a4 + 10a5 + divided by \$N(N-1)

is just this sum of squares. I think I jotted the empirical values in the margin in these two cases, and, if I remember right, both came to less than 1%. I famey the second one ought to have

been smaller, but was really larger, which suggests that the estimate, though convincingly direct and emperical, is not of very high precision.

Yours sincerely,