

Crofton's Corner
Forest Road South
17, EGERTON PLACE,
S.W.

[late 1922 or early 1923?]

Dear Fisher.

Very well then; I will inflict on you another evolutionary letter. Your blood be on your own health.

(1) I send herewith 2 pamphlets, not to be returned. Read them or not as you like. But perhaps look at the table on page 127/13 of Pearl's paper. If I understand ^{the figures} ~~them~~, ^{them} right, I find them difficult to correlate with usefulness.

(2) I have been writing on racial poisons lately. Assuming there to exist (which seems to me on the whole probable) I come to the conclusion that if the poisonous effect, as it probably usually the case, either diminishes fertility or increases the death rate, then one of two things must happen:—(a) the poisonous effect becomes spread universally and uniformly through the race or interbreeding groups; or (b) dies out altogether. If so racial poisons are not such serious measures as they seem at first sight.

(3) There was a pleasant little review of my evolution pamphlet in a Dublin scientific journal, which reminded me of the at work, and led me to turn it up in connection with one point. I cite you there as giving an explanation of the way sterility between neighbouring varieties or varieties generally may arise—because the intermediate forms are generally less fit. When I put that in I somehow did not notice that that explanation fits in with me I gave of the way species may split in two. It may, for example, be a near thing whether it is best policy normally for an animal to fight its many or bolt. But if a little stronger & brawnier it might be clearly best to ^{fight} bolt, or if lighter and more agile to bolt; and both of these alternatives

might be better than the intermediate position. In such cases would not natural selection favour sterility between the extremes just in the way in which you suggest? And if the qualities were due to many Mendelian factors, the divergence between the extremes would be increased without the aid of mutations. Beyond a certain point the explanation would go - I mean mutation must come in sooner or later.

I am inclined to think that negatively correlated characters, such as those above mentioned, would not frequently be found. But why should a species ever split in two if all the characters could be changed beneficially in one direction and one direction only? I think they must really be very common.

Bateson says that infidelity has never been produced artificially. This ~~implies~~ may ~~mean~~ wanted that it is not surprising; for no experimentalist has tried for sufficiently long a time - or never tried at all - to breed or select for infidelity. I was almost tempted to write to Nature on this point just now ago. But one letter did not much attraction -

Yours sincerely,
Leonard Dawe