

Jan 12

May 12

1957

Institut Pasteur

28, RUE DU DR ROUX - PARIS XVI^e

TÉL. : SÉCUR 01-10

Dear Josh

Thank you for your letter. I am very glad you agree about the Royce experiment project and am looking forward to seeing you again next summer.

We have not yet any precise opinion about the F factor since there does not seem yet to be any conclusive evidence about its cytoplasmic or nuclear nature (at least not yet we know of)

About the questions you ask, I can only answer some of them.

10) To plate without interrupting the mating, one has to be very tried with the Luffy couples. We dilute very slowly and, throw gently some aliquots into melted agar tubes and pour these onto agar flats, very carefully.

20) We have no more CSH reprints. I shall will look carefully whether some have been hidden somewhere and send them if I ~~can~~ find some.

30) We have some of strains for which the first ^{known} recombination enters between 4 and 5 units. This is the earliest time we have -

Institut Pasteur

28, RUE DU DR ROUX - PARIS XVI^e

TÉL. : SÉCUR 01-10

40. We have not yet studied zygotic induction with H_f recipient λ (or H_f) very early.

We have another evidence that in most cases the whole genome is injected: this is based on production of β -galactosidase by zygotes resulting from mating between H_f lac^+ and $F^- lac^-$, in conditions where the H_f parent cannot replicate *in situ*. If one uses an H_f strain which injects lac in the first minutes, one finds that β -galactosidase synthesis starts almost immediately after the penetration of the first lac determinants in the recipients and the rate ^{of synthesis} increases progressively when more lac genes are transferred. When one uses this is independent of recombination). When one uses an H_f in which lac is injected last, there is no detectable synthesis of enzyme for several hours.

We shall discuss all this next summer -
I hope you will enjoy the Royan meeting which we shall try to be pleasant, not too tiring and if possible useful.
Best regards to both of you and to Lucia

Yours
François

I just realize that the secretary did not ~~not~~ forward the paper I had prepared to send with the H_f strain P100 for Richter. Would you tell him that H_f P100 is B_1^- and lac^- .