



June 3, 1981

JOSHUA LEDERBERG

PRESIDENT

Mr. Rodman Rockefeller
Ibec, Inc.
1230 Avenue of the Americas
New York, New York 10020

Re: Breakthrough in Fish Breeding

Dear Rodman:

"Clone" here has different implications than what we discussed before. It is not the propagation of a (high performing) existing individual. Rather it is the ability

a) to establish genetically homozygous ♀♀

b) propagate these as such (i.e. the clone)

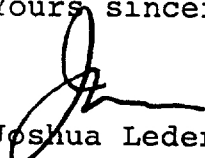
and also

c) hormonally alter ♀♀ of one clone to serve as ♂♂, thus to cross-breed 2 clones. The hybrid vigor of these progeny should be a great practical advantage, just as with corn.

At any rate there is a good chance of moving straight on to salmon! Only very bad luck could stand in the way of its working.

Would you like me to "introduce" you to Prof. Streisinger? I have been acquainted with him over 30 years; but I did not know till this article that he had switched to fish (from bacteriophage) for his research.

Yours sincerely,


Joshua Lederberg

Production of clones of homozygous diploid zebra fish (*Brachydanio rerio*)

George Streisinger, Charline Walker, Nancy Dower, Donna Knauber & Fred Singer

Institute of Molecular Biology, University of Oregon, Eugene, Oregon 97403, USA

Homozygous diploid zebra fish have been produced on a large scale by the application of simple physical treatments. Clones of homozygous fish have been produced from individual homozygotes. These clones and associated genetic methods will facilitate genetic analyses of this vertebrate.