



Institute of Molecular Biology
UNIVERSITY OF OREGON
Eugene, Oregon 97403

503/686-5151

March 5, 1980

Miss A. P. Krishnaja
Department of Zoology
Institute of Science
Bombay 400-032
INDIA

Dear Miss Krishnaja:

I am glad to hear about your interest in mutagenesis in fish.

My group is interested in isolating mutants of the zebra fish (Brachydanio rerio) with alterations in the retina of the eye. We hope to use these mutants to study the development, organization, and function of the vertebrate retina.

We have perfected methods for making homozygous fish, and have obtained dose response curves for the γ -ray induction of mutations at several genes which control pigmentation. We have also measured the frequency of the induction of recessive lethals by γ -rays. We are at present attempting to induce mutations with chemical mutagens.

None of our results are published as yet, but under separate cover I am sending a preprint and a grant application which describes our general approach. Both of these are quite out of date. Please let me know whether these materials reach you. As soon as more of our work gets written up, I will send you copies.

I would very much like to hear more about your own research efforts.

Sincerely yours,

George Streisinger

GS:jd

Replied on 10-11-80

Miss Kashinaja, A.P.
Dept. of Zoology
Institute of Science
Bombay - 32
19-3-80

Dear Prof. Srinivasan,

Thank you very much for your letter dated March 5th and a preprint along with a grant application by separate post. It was exceedingly nice of you to respond to my request and even send me the preprints. I find that they contain some very useful information and a new approach. I am happy to note that you will be sending me copies of other works as and when ready.

I am presently working for my Ph.D. dissertation in Zoology of Bombay University and hope to complete soon. My problem broadly pertains to the detection of mutagenic effects of heavy metals using fish as an *in vivo* (namely cytogenetic) model. This is of much topical interest in a country like ours, especially in Bombay, where industrial pollution can be a health hazard. I am sending herewith ^{reprints of} two of my papers. This work was carried out for my M.Sc. degree which I obtained in 1976. I may mention that after my M.Sc. I had the opportunity of working on a project concerned with mutagenicity of pesticides and agricultural chemicals. This was done mainly using *Drosophila*. It was then that I got introduced into this field.

My present commitments include working for a project on aquatic pollution in and around Bombay - Monitoring of heavy metals and their effect on molluscs, and also my work for Ph.D. A

Junior Research associateship in the above project
maintains me financially and also helps me
to pursue with my problem for Ph.D.

I am sorry for burdening you with my
problems (both academic and personal) but I
thought that you may be interested to know
of my activities. I shall keep you informed
of my progress and do hope that I can
approach you for help in case any I have any
problems.

Thanking you and with kind regards,

Yours sincerely,

Krish

(Keshavnagar, A.P.)