

Bombay 400 032,  
August 11, 1980.

From:

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

To:

Mr. K. Kakar,  
In-Charge,  
Sea Food Division,  
Britannia Industries Ltd.,  
Maker Towers 'E',  
Bombay 400 005.

Sir,

I am a student of the Bombay University working for my doctorate at the Department of Zoology, Institute of Science. The problem for my Ph.D., thesis (Zoology) is "Fish as an in vivo cytogenetic model in the detection of potential mutagens".

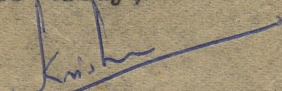
I have completed the work on the above-mentioned project and submitted the Synopsis in July this year. The Thesis is under preparation. I am enclosing a brief resume of my work for your kind perusal.

I am presently on a Maharashtra Government Fellowship (Rs. 250/- per month) which hardly is sufficient for my stay in the hostel. As I have no other source of income and as the preparation of the thesis involves much expenditure (photo-micrography etc.) I will be highly obliged if you will arrange for some financial aid in order to enable me to complete my thesis.

Hope you will consider my case sympathetically.

Thanking you,

Yours truly,



(Miss) Krishnaja, A.P.

Encl: as above

"FISH AS AN IN VIVO CYTOGENETIC MODEL IN THE DETECTION OF  
POTENTIAL MUTAGENS"  
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Recently Pisces as a group has been receiving special attention because of their possible use as indicators for the monitoring of environmental carcinogens, teratogens and mutagens. However data on the effects of chemical mutagens on fish chromosomes in vivo is practically nil. In the present work an attempt has been made to explore the possibility of using fish as an in vivo cytogenetic model in the detecting the clastogenic effects of various chemicals after direct and indirect exposure. Screening of chromosome complement in a number of fishes available in Bombay was carried out in order to detect a species-karyotype favourable for chromosome aberration studies. Boleophthalmus dussumieri was selected as the test species in view of its fairly large all acrocentric chromosomes with a modal no.  $2n=46$ . The effect of Mitomycin C (a well known DNA cross linking bifunctional alkylating agent and an effective clastogen) on the chromosomes of B. dussumieri was worked out. Similarly effects of heavy metals such Hg, Se and Cr after direct and indirect exposures were studied.

Methyl mercury induced chromosome damage in man as a result of consuming mercury contaminated fish has been reported. Recent findings of high mercury concentrations in some of the edible fishes of Bombay waters and high metallic content such as Hg, Cd, Se, As and Pb in crustaceans collected in and around Bombay are significant in this regard. The more serious aspect of the problem however is the possibility of an insidious genetic effect in man due to a continuous low level exposure to a barrage of chemical pollutants. In an effort to thwart such a genetic effect due to naive chemical pollution, a large segment of the scientific community is now actively involved in developing and implementing tests for mutagenicity, carcinogenicity and teratogenicity.

Findings of the study carried out here indicate the usefulness of fish as an in vivo cytogenetic model in the detection of potential mutagens and open up new vistas of research in the field.

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Dr. Miss Krishnaja, A.P.,  
Bio-Medical Group  
Modular Laboratories  
Bhabha Atomic Research Centre,  
Trombay, Bombay, 400 085.

January 21, 1983.

Dr. E.C. Abraham.,  
Dept. of Cell and Molecular Biology,  
Medical College of Georgia,  
Augusta, GA-30912.

Dear Sir,

I am writing this to find out whether you have a suitable post-doctoral position to offer me under you. I took my Ph.D (Zoology) from the Institute of Science, Bombay and I am presently working as a Pool Officer (Temporary Class I officer) of the CSIR (Council of Scientific & Industrial Research) at the Bio-Medical Group, BARC, Bombay.

I hope my bio-data I had arranged to hand over to you had been received by you. You will find that I did my M.Sc (Research) also in Zoology under a ICAR fellowship. I am presently working on human Cytogenetics, chromosome analysis (using short term cultures and conventional and banding techniques) of new born babies (cord blood) in this area in order to collect baseline data. I am exposed to cytogenetic studies in fishes as well as biochemical techniques like electrophoresis (paper, cellulose agar, starch, polyacrilamide) of hemoglobins and serum proteins for my M.Sc work. My bio-data will give information about scientific publication and other academic qualifications.

I give below name and address of two referees for your to ascertain any further information about me.

1, Dr. M. S. Rege (guide for Ph.D). Now Retired.  
B/4 Bhagyodaya Coop. society  
Plot 9-10 TPS VI  
Opp. Linking Road extension  
Santacruz West, Bombay-400 054.

2, Dr. K. Sundaram  
Director, Bio-Medical Group  
Bhabha Atomic Research Centre  
Trombay, Bombay-400 085.

I hope you will consider my case and if found suitable offer a position under you.

Thanking you,

Yours truly,

Dr. Krishnaja, A. P.

Dr. Miss KRISHNAJA, A. P.,  
198/5446 Vishwamohini,  
Pantnagar, Ghatkopar East,  
Bombay 400 075. INDIA.

April 23, 1983.

Dr. Tawfik Tamimi,  
Dean,  
College of Medicine and Medical Sciences,  
King Faisal University,  
Dammam. Saudi Arabia.

Dear Sir,

Ref: Your advertisement in March 1983 issue of NATURE  
for Teaching and Research Staff in Biology  
(Medical Sciences)

In response to the above advertisement I am sending herewith my  
Bio-data for your information and kind consideration.

I am presently working as a Pool Officer (Temporary Class I Officer,  
Council of Scientific and Industrial Research, New Delhi, India) at the  
Bio-Medical Group of the Bhabha Atomic Research Centre, Trombay, Bombay.  
My work mainly involves screening for Cytogenetic abnormalities in the  
newborns (Cord bloods).

Before taking up this assignment I was working as Junior Scientific  
Officer (Cytogenetics) at the Pediatric Research Laboratories of the King  
Edward Memorial Hospital, Bombay. I was working on short term peripheral  
lymphocyte cultures for chromosome studies, karyotype analysis and banding  
techniques to detect chromosome abnormalities, haemopoietic malignancies  
(leukaemia, lymphoma etc.). Sex chromatin studies including fluorescent  
techniques for detection of sex anomalies.

I feel confident that with the experience I have it may be possible  
for me to organise a cytogenetic laboratory in case you contemplate having  
one in your esteemed institute.

I took my Ph.D. (Zoology) of the Bombay University from the Institute  
of Science, Bombay, in December 1980. My earlier experience/work and the  
publications arising out of it are already detailed in the Curriculum Vitae.  
Copies of some of these publications are also enclosed.

I may mention that I am interested in Research as well as Teaching  
and the job opportunity offered by you seems to fit in with these. Hope to  
hear from you of the terms and conditions of the post you could offer.

Thanking you,

Yours truly,

Encl: as above

KRISHNAJA, A. P.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Kingdom of Saudi Arabia  
MINISTRY OF HIGHER EDUCATION

King Faisal University  
Recruitment Office  
Dammam



المملكة العربية السعودية

وزارة التعليم العالي

جامعة الملك فيصل

DR. MISS KRISHNAJA, A.P.  
198/5446 VISHWAMOHINI  
PANTNAGAR, CHATKOPAR EAST  
BOMBAY 400 075  
I N D I A

Date: June 11, 1983.

Subject: Employment with King Faisal University  
Saudi Arabia

We thank you for your application for a position on the  
faculty of the College of Medicine & Medical Sciences.

Your curriculum vitae was thoroughly reviewed and your  
application carefully considered. We regret that we do  
not, at the present time, have a position commensurate  
with your qualifications.

Thank you again for your interest.

Very truly yours,

University Recruiting Office  
King Faisal University