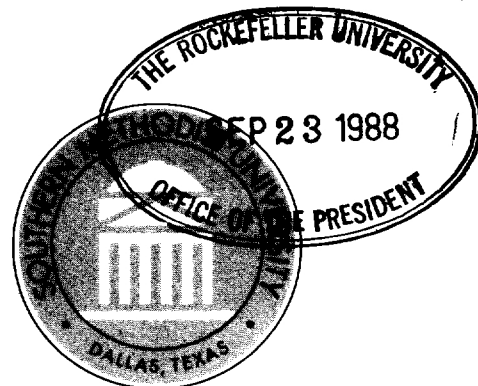


September 20, 1988

Dr. Joshua Lederberg
Office of the President
Rockefeller University
1230 York Avenue
New York, NY 10021



Dear Josh,

In response to your request for information on the *Drosophila* genome and the current state of mapping, I have reviewed the information I have and offer the following material. Dan Lindsley, in the Department of Biology at UC-San Diego, has been the principal compiler of mapping information since the mid-60's when he published a book referred to by "Drosophilists" as "The Red Book." Much of the information there is still accurate but, of course, has been supplemented by additional information over the past twenty years. I'm not sure if his original book is still in print but virtually any *Drosophila* lab has a copy.

Over the past several years, Lindsley, with the assistance of Georgiana Zimm, has been updating and computerizing the mapping information and periodically publishing the material as it is compiled as supplementary editions of the annual "Drosophila Information Service" (DIS). Volumes 62 ("The Genome of *Drosophila melanogaster* Part 1: Genes A-K), volume 64 ("The Genome of *Drosophila melanogaster* Part 2: lethals; maps) and volume 65 ("The Genome of *Drosophila melanogaster* Part 3: rearrangements) are likely still available and can be secured for a modest fee from Dr. Philip W. Hedrick, Division of Biological Sciences, University of Kansas, Lawrence, Kansas, 66045.

I have included xerographic copies of several selected items for your perusal. Item 1 is an index of genes which are part of the current computer database, arrayed by cytogenetic location according to the salivary gland polytene chromosome maps, item 2 is a similar array, ordered on the basis of the recombinational maps and item 3 is an excerpt from DIS 60, compiled by Winifred Doane, which arrays the biochemical loci of *Drosophila*. Item 4 is an advertisement which describes a recent publication by Sorsa which updates the chromosome maps. I have not attempted to purchase these volumes and therefore am not sure if they are in print as promised.

I hope these materials are of use to you for your mapping study. If I can be of any further assistance, please feel free to call upon me. Your interest in mapping functions in *Drosophila* hit a long buried nerve in me. When I was a postdoc with Art Chovnick at the University of Connecticut, I conducted a study which demonstrated the occurrence of gene conversion in *Drosophila*. This was the first demonstration of gene conversion in a non-fungal organism and gave credence to the potential universality of this process. I've included a reprint of that article for you as well. Look forward to seeing you in November.

Sincerely yours,

P. Dennis Smith
Professor of Biological Sciences

Thank you
very much!
Josh Lederberg

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