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DEPARTMENT OF BIOLOGICAL SCIENCES

SHERMAN FAIRCHILD CENTER
FOR THE LIFE SCIENCES

January 18, 1994

Dr. R.A. Drysdale
Department of Genetics
University of Cambridge
Downing Street, Cambridge
CB2 3EH
England

Dear Dr. Drysdale:

I am writing in response to your letter of December 13, 1994 (addressed to Dr. Lily Jan), regarding the paper I coauthored with her on the TBP-Related Factor in *Nature* **361**:557 (your reference 899).

The leg-shaking and male-sterile phenotypes are recessive. ✓

The two insertion mutations are allelic. ✓

We are assuming that the phenotypes are due to an effect on the TRF gene, since it is expressed in both the central nervous system and the male germline, but we have not proven this. ✓

We have not looked at polytene chromosomes in the $C6^{R31}$ deletion mutant. ✓

The $C6^{R20}$ and $C6^{R31}$ deletions were induced with P(*ry*[+], *delta* 2-3) 99B. ✓

The two insertions at the TRF locus were generated in different mutageneses, with P*lacW* at distinct starting sites on the X chromosome (Bier *et al.* 1989 *Genes & Dev* 3:1273).

Best regards,
Tom Crowley

Tom Crowley
Columbia U., Biology
602 Fairchild
New York, NY 10027

fax: [redacted]

Dear Prof. Jan,

In connection with my work for FlyBase I have been reading your paper,
T.E. Crawley et al.
A new factor related to TATA binding protein....
Nature 361:557-561.

I would be most grateful if you could help me by clarifying the following points.
You describe two PlacW insertions at 28DE that cause ether-induced leg shaking.
Are these mutant phenotypes dominant or recessive?
Have the two insertion mutants been shown to be allelic or otherwise?
Are you presuming, or have you shown elsewhere, that this mutant phenotype is a consequence of alterations in expression of TRF?
Is the C6R31 deletion cytologically visible?
Were the C6R31 and C6R20 deletions induced with P{ry[+], Delta2-3}99B?
Did you begin with the same P-lacW insertion in all mutageneses?

Thank you very much for your help.

Yours sincerely,

Rachel Drysdale,
FlyBase.

Our reference: 899.

Dear Dr. Crowley,

Thank you very much for your prompt reply to my letter, which I received this morning. I have incorporated your information into our record of your paper, and when (eventually!) your paper becomes part of FlyBase the information will be more complete as a result.

Many thanks,

Regards,

Rachel Drysdale.