

Corrigendum

mus309 mutation, defective in DNA double-strand break repair, affects intergenic but not intragenic meiotic recombination in *Drosophila melanogaster*

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Genet. Res., Camb. **86**, 185–191 (2005).

In this paper, there was a simple but serious error in Table 1. The two first rows of the figures in the table had changed places. The corrected table is given below (Table 1). The error does not affect the main conclusion of the paper, namely that *mus309* has an effect on intergenic but not on intragenic meiotic recombination. On the other hand, after the correction the results are now in correspondence with the results of other authors, like McVey *et al.* (2007). The *mus309* mutation has a stronger effect on crossing over

frequency in the chromosome regions where the frequency of crossovers in the wild type females is lowest in relation to the physical map length of the chromosome than in the regions where crossovers respectively are most common. In the wild type flies there is a trend that crossovers become less frequent relative to the physical map length the closer the centromere, on the one hand, or the distal tip of the chromosome, on the other hand, is located.

Table 1. Effect of the *mus309*^{D2}/*mus309*^{D3}, a DNA double-strand repair deficient gene constitution in the 3rd chromosome on intergenic recombination in two regions of the X chromosome

Interval	Control	Effect of <i>mus309</i>	Significance of the difference
Region <i>cv v f</i>			
<i>cv-v</i>	23.13 ± 0.72 (787)	22.08 ± 0.85 (532)	<i>t</i> = 0.942; n.s.
<i>v-f</i>	18.51 ± 0.67 (630)	27.15 ± 0.91 (654)	<i>t</i> = 8.284; <i>P</i> < 0.001
Double crossovers	1.97 ± 0.24 (67)	4.28 ± 0.41 (103)	<i>t</i> = 5.145; <i>P</i> < 0.001
Total number of flies	3403	2409	
Coefficient of coincidence	0.4599 ± 0.0505	0.7132 ± 0.0574	<i>t</i> = 19.189; <i>P</i> < 0.001
Region <i>y sc ec</i>			
<i>y sc-ec</i>	2.25 ± 0.17 (176)	5.60 ± 0.25 (491)	<i>t</i> = 10.96; <i>P</i> < 0.001
Total number of flies	7810	8770	

¹ In Stevens' (1936) formula for calculating the coefficient of coincidence:

$$\hat{c} = \frac{wn}{(w+x)(w+y)},$$

where *w* is the number of flies which were double crossovers, *x* and *y* are the numbers of flies which were single crossovers for *cv* and *v*, and *v* and *f*, respectively, and *n* is the total number of flies.

References

- McVey, M., Andersen, S. L., Broze, Y. & Sekelsky, J. (2007). Multiple functions of *Drosophila* Blm helicase in maintenance of genome stability. *Genetics* **176**, 1979–1992.
- Stevens, W. L. (1936). The analysis of interference. *Journal of Genetics* **32**, 51–64.