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Attn. Chaoyang Zeng

Heidelberg, 17th September 1999

Dear Kevin,

please find the following unpublished fly stocks in which you expressed interest in your e-mail from the 2nd July:

- w; slug^{1}, ca/TM6B Hu Tb ca
- w; slug^{2}, ca/TM6C Sb Tb ca
- slug^{3}, ca/TM3 (mixed w/w+)
- w; e, slug^{4}, ca/TM6C Sb Tb ca
- w; e, ren^{1}, ca/TM6B Hu Tb ca
- w; e, ren^{2}, ca/TM6B Hu Tb ca

- w; ush^{Q41}/Cyo

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The *renegate (ren)* and *slug* alleles have been isolated in a screen for new EMS induced *D-fos* alleles (starter stock *e, ca*), as mutants that do not complement kay^1. However, they do complement kay^2 and other *D-fos* alleles, thus are not *D-fos* alleles themselves. kay^1 represents a deficiency (see Zeitlinger et al., 1997, EMBO J: 16, 7393-7401) which takes out the first exon of *D-fos* (but not the second) and an unknown large piece of DNA to the left of *D-fos*. Thus, *slug* and *ren* map 99A-B. This location was confirmed by non-complementation with Df(3)01215 and recombination analysis. Among the sent alleles, those without *e* were recombined with w; +;+. Most likely, kay^1 deletes three genes in addition to *D-fos* as there has been an additional complementation group which got lost later on.

All alleles appear to be strong alleles, besides $slug^2$, which is a hypomorphic mutant. Homozygous $slug^2$ animals (or transheterozygous $slug^2$ over another *slug* allele) die as late third instar larvae with a distinct mutant phenotype. They fail to pupariate, die at the bottle wall, and thus look like brown "slugs".

In addition, I am sending an unpublished allele of *u-shaped (ush)* which is a spontaneous mutation. Homozygous ush^{Q41} flies are viable and give rise to a thorax cleft phenotype.

If you wish further information, don't hesitate to ask. I will leave Heidelberg at the end of this month to go to the M.I.T. in Boston, but my e-mail account will remain until end of January 2000. Afterwards you should contact Dirk Bohmann, [redacted].

Best wishes,

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