the calcium-influx signal in lymphocytes and in other tissues, particularly brain and testis where it is more abundantly transcribed. CAML may bind cyclophilin B present at the calciosome²² (a subspecialized region of the endoplasmic reticulum involved in calcium homeostasis), and may regulate intracellular calcium release or generate the signal responsible for opening plasma membrane calcium channels.

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CORRECTIONS

The genomic mutation rate for fitness in Drosophila

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Nature 359, 58-60 (1992)

It has come to our attention that an important stock used in this paper was probably contaminated during the experiments we reported. We accumulated spontaneous mutations in the virtual absence of natural selection on many copies of a single second chromosome of Drosophila melanogaster. To provide a control stock for these accumulation lines, we pooled six of the best performing lines, in two replicates, then maintained these stocks at a large population size to allow natural selection to purge any deleterious variation. In our paper we reported results from generation 44 of mutation accumulation. S. Nuzhdin and T. Mackay (personal communication) examined insertion sites of the transposable element 297 by in situ hybridization in the control stocks and found that about half of the insertion sites in both replicates were polymorphic. Our subsequent analyses of insertion sites of 297 and roo have confirmed this observation. This level of polymorphism is too high to be explained by transposition of these elements, but still far lower than that expected in an outbred population. The results are most consistent with contamination of one of the six lines originally used to found both replicates of the control stock. We have also examined transposition sites in six mutation lines extracted at generation 62 of mutation accumulation for 297 and roo, and S. Nuzhdin examined an additional six lines for 297; none of these lines shows evidence for contamination (D. Houle et al. Genetics, in the press).

Consequently, we do not have a valid estimate of the rate of decline in mean fitness. Since our estimates of the genomic mutation rate and the average effect of a mutation are functions of this rate, our data cannot be used to make these estimates. On the other hand, our estimate of the increase in variance among replicate chromosomes is still valid.

Mouse microcytic anaemia caused by a defect in the gene encoding the globin enhancer-binding protein NF-E2

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Nature 362, 768-770 (1992)

WE previously reported that the globin enhancer-binding protein NF-E2 was defective in the mouse hypochromic microcytic anaemia mutation mk. We based our conclusion upon the following. First, NF-E2 mapped to within 1 cM of the mk locus on mouse chromosome 15. Second, the mk phenotype, which includes decreased globin synthesis and defective iron uptake, made NF-E2 a logical candidate gene, especially once we established that NF-E2 was expressed in the proximal intestine. Third, the mk NF-E2 allele had a single base-pair difference at nucleotide 851 (T \rightarrow C), predicting a value-to-alanine substitution at amino acid 173, which was not present in DNA from its normal inbred strain of origin, DBA/2J (the mk mutation originally arose on C57BL/6J × DBA/2J F2 mice; by Southern blot analysis, we determined that mk carried the DBA/2J NF-E2 gene). Since publication, however, S-J. Lu, S. Rowan, M. R. Bani and B.-D. Yaacov (Proc. natn. Acad. Sci. U.S.A., in the press) have shown, and we have confirmed, that normal inbred BALB/c mice also have C at position 851 of the NF-E2 gene, suggesting that the valine-to-alanine change is polymorphic in nature and does not represent the primary gene defect producing the mk mutation. We conclude that NF-E2 is closely linked to mk on mouse chromosome 15 but must be further evaluated in regards to its role, if any, in iron metabolism and in producing the mk phenotype.

ERRATUM

Correlated neuronal discharge rate and its implications for psychophysical performance

Ehud Zohary, Michael N. Shadlen & William T. Newsome

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THE ordinate axis in Fig. 3a of this Letter should run from 1.0 to 10, and not from 0.1 to 10 as published.