



تفاصيل البحث:

Dietary fats influence open-field behaviour of male and female laboratory mice :

عنوان البحث

Dietary fats influence open-field behaviour of male and female laboratory mice

الوصف

Swiss mice of differing ages (juvenile and adult) and sexes were fed four specially formulated, pelleted diets containing respectively 8% saturated vegetable fat, 8% soya oil, 8% olive oil and 2% soya oil (with identities hidden from the experimenter) or a local commercial chow (3% crude fat) for 3 or 6 weeks. Subjects were individually housed and were assessed under red lighting for behaviour in a modified open field (a 30 x 20 cm box with a black floor). Videotaped records were analysed using The Observer system, quantifying transitions between inner and outer zones, rearing, freezing, grooming and defaecation as well as location in the two equal-sized zones. Clearly, these non-isocaloric diets differed in palatability, producing complex effects on growth as well as physiological and behavioural measures. Many indices were influenced by age, sex, and the duration of dietary exposure. Interactions between factors were common. Defaecation does not seem to provide a useful index of emotionality in this type of study and investigations lacking a wide range of indices seem unlikely to provide unequivocal support for postulated links between dietary lipids and behaviour. The study broadly supports the contention that dietary fats subtly influence mood in mice.

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نوع البحث

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مواقع مفضلة

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