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All communications should be addressed to the Editor,
The Journal of Experimental Biology, Department of Zoology,
Downing Street, Cambridge CB2 3EJ, England.

Experiments on living animals

The Editorial Board will not allow the publication of papers describing experimental procedures which may reasonably be presumed to have inflicted unnecessary pain, discomfort, or disturbance of normal health on living animals. Manuscripts will only be accepted if:

- 1 it is clear that the advances made in physiological knowledge justified the procedures;
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Synapse formation

Synapses lie at the heart of neuronal function: they are the vital points of contact between neurones in the central nervous system and between motor neurones and muscle fibres at the neuromuscular junction. The precision with which information is transmitted throughout the central nervous system depends upon the specificity of these synaptic connections. The rapid development of techniques, such as confocal and epifluorescence microscopy, immunocytochemistry and the use of *in vitro* systems, along with the more traditional methods such as transplantation and lesioning, has produced a mass of new information about synaptic plasticity and specificity. This volume draws attention to recent work in the field of synapse formation and provides an authoritative review of the factors that influence synapse development in the embryo and synapse re-formation following damage to the mature nervous system. It presents a fund of essential material for researchers and students of neurobiology.

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