
The reproduction quality of the micrographs shown in the original printing was unsatisfactory. All of the micrographs are reproduced here displaying a sharper contrast.

FIG. 3. Examples of 3 sections through the same bouton (fiber 2). A: noncounterstained section through HRP-labeled profile. Arrow shows asymmetric synaptic specialization. B: section through the same profile counterstained with uranyl acetate and lead citrate. Arrow shows same axo-dendritic contact. C: high-power view of a 3rd section through the same profile showing a 2nd axo-dendritic (long arrow) and an asymmetric axo-axonic (short arrow) contact. Note numerous mitochondria contained in the terminal. Scale bars, 0.5 μm; d, dendrite; at, axon terminal.
FIG. 4. Counterstained section through an ectopic bouton from fiber 1. →, asymmetric contact with a dendritic (d) profile that contains a few clear round vesicles. Note close apposition between axon terminals (at) containing pleomorphic vesicles and the HRP-stained profile. Scale bar = 0.5 μm.

FIG. 5. Additional examples of frequent synaptic contacts of HRP-stained ectopic profiles. A and B: adjacent sections through a bouton from fiber 2. Long arrows denote an asymmetric contact with a dendritic profile (d) and short arrows point to an asymmetric contact with a presynaptic axon terminal (at) containing pleomorphic vesicles. C: section through a different profile also from fiber 2 demonstrating similar ultrastructure. Scale bar = 0.5 μm.

FIG. 6. A: light micrograph of 100-μm-thick sagittal section. Asterisk, locations of ectopic boutons (fiber 2) isolated for EM analysis. B: example of a typical ectopic profile forming an asymmetric axo-denritic contact (curved arrow). Profile is filled with numerous clear round vesicles and a few large dense core vesicles (arrows). Different arrows distinguish light and dark dense core vesicles in the ectopic profile and surrounding neuropil. C: example of a stained unmyelinated fiber filled with clear round vesicles. Open arrow denotes an en passant bouton. D: high-power view of same section. Scale bars: A = 100 μm; B and D = 0.5 μm; C = 1.0 μm.

FIG. 7. Example of similar ultrastructure seen in Fig. 6, C and D, for a bouton from fiber 1. A: section through a bouton and unmyelinated fiber. →, asymmetric axo-dendritic contact. Note numerous clear round vesicles in the fiber. B: enlargement of same section. Scale bars = 0.5 μm.