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OA occurs as a neurotransmitter in the crustacean nervous system (Barker et al., 1972b; Kravitz et al., 1976). Bath-applied OA effectively inhibits expression of swimmeret motor activity (Mulloney et al., 1987), and does so quickly in a dose-dependent manner. The ED 50 is about 50 μM OA. Two metabolites of OA, synephrine and norepinephrine, also inhibited the system but are not known to occur in crustacean CNS.

Neurobiology of the Crustacean Swimmeret System

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