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The long, movable posterolateral spines of the rotifer Brachionus calyciflorus are induced de novo by a factor released into the environment by the larger, predatory rotifer Asplanchna. When contacted, Brachionus calyciflorus reflexly withdraws its corona, creating internal positive pressure which causes lateral extension of the spines. The structure and movements of these spines provide very effective mechanical defense against Asplanchna (about X 500). See page 1234. [John J. Gilbert]