Neurodevelopment and Primitive Reflexes: a Neuropsychological Approach in Neuroscience

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How is the primitive vertebrate spinal flexion reflex organized? Although most textbooks of neuroscience show the mammal flexion reflex with two layers of interneurons in the pathway, we know of no case in the vertebrates in which the spinal pathway from a skin stimulus to a motor response can be traced, synapse by synapse, from the sensory receptors via defined interneurons to the motoneurons (mn). We examined these questions by exploiting the frog tadpole spinal cord in which there are few interneuron types (Roberts et al., 2000; Li et al., 2001), and whole-cell recordings can be made from pairs of neurons to look at synaptic interactions (Li et al., 2002).