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Cover picture: Autonomous differentiation of a single spinal cord neuron from a precursor cell isolated from a neural plate stage embryo (Nieuwkoop and Faber stage 15) of *Xenopus laevis* and maintained in tissue culture (1 cell/35mm dish) in a defined salt solution (Steinberg's) to which no other factors were added (19 hr in culture). Photomicrograph kindly provided by Leslie P. Henderson and Nicholas C. Spitzer.

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