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Cover picture: Local perfusion of the growth cone of a *Xenopus* spinal neuron in culture with drugs that elevate the local cAMP activity. Long-range inhibitory effects on the distant unperfused growth cone were observed. The perfusion flow is marked by fluorescence dye and its concentration profile is illustrated by pseudocolor coding. See related article in this issue by Zheng et al., 1693–1701.

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Cover picture: Fusion of a human red blood cell to a fibroblast expressing influenza hemagglutinin (GP4F cell provided by Dr. J. M. White, University of Virginia Medical Center, Charlottesville, VA). The aqueous dye NBD-*taurine* is originally only in the red cell (*top left*). After fusion pores form, dye spreads throughout both cells. Images are 40 s apart. Although the fusion pore is open to greater than 1.7 nS (*top middle*), no dye movement is seen for 58 s. See related article in this issue by Zimmerberg et al., 1885-1894.

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