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Cover legend: Competing inputs on the somatic surface have segregated innervation territories. This video shows reconstructions of two competing inputs (blue and green) onto a single cell in a mouse medial nucleus of the trapezoid body at postnatal day 3, derived from sections imaged with serial block-face scanning electron microscopy. As the movie progresses, the inputs are removed to reveal the apposed surface area between the two nerve terminals and postsynaptic cell membrane (also shown in blue and green). Rotation of the cell reveals that these two apposed regions do not overlap. The nerve terminals are reintroduced and the view is zoomed to demonstrate that even processes that extend from the terminals away from the postsynaptic surface do not make contact. In the issue cover, competing inputs are made translucent so that the apposed surface areas (purple and yellow) can be viewed through the nerve terminal membranes. For more information, see the article by Holcomb et al. (pages 12954-12969), which published in the August 7, 2013 issue.

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