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Confocal microscope image of a section from an adult rat brain injected 4 weeks earlier with a human immunodeficiency virus–based vector expressing β-galactosidase (β-gal). The section was stained by immunofluorescence with antibodies to β-gal (green), the neuronal-specific marker NeuN (red), and the astrocytic protein GFAP (blue). A β-gal–expressing neuron (doubly stained, yellow) shows that the vector can transfer genes into nondoning cells, a desirable trait in gene therapy. Image width: ~240 micrometers. See page 263 and the related News story on page 195. [Image: U. Blümmer and F. H. Gage]

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