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# PHYSIOLOGICAL REVIEWS®



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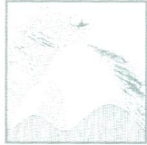




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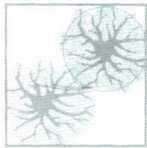
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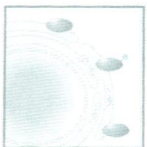
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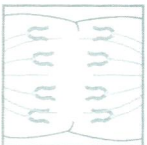
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**Cover:** Cartoon schematic of the adult neurogenesis process in the dentate gyrus. New granule cell neurons arise from a local stem cell population in the dentate gyrus and progress through an extended maturation process, producing dendrite arbors and axons to ultimately become anatomically indistinguishable from developmentally born granule cells. This maturation process contributes to the functional differentiation of these young neurons from the surrounding population which impacts several aspects of cognition. Original artwork by Jamie Simon. See Aimone, James B, Yan Li, Star W. Lee, Gregory D. Clemenson, Wei Deng, and Fred H. Gage. *Physiol Rev* 94: 991–1026, 2014.