

Publication

A niche for adult neural stem cells

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The adult mammalian brain harbors multipotent stem cells, which reside and participate in specialized niches that support self-renewal and differentiation. The first cellular and molecular elements of the stem cell niche in the adult brain have been identified and include cell-cell interactions and somatic cell signaling, the vasculature, the extracellular matrix and basal lamina. Furthermore, regulation at the epigenetic level via chromatin modification and remodeling is an integral aspect of stem cell biology. Understanding the in vivo stem cell niche will provide a framework for the elucidation of stem cell function in the adult brain.

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