



Emerging Roles for Hippocampal Adult Neural Stem Cells in Memory

By Daniela Kaufer

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0.1in. Approximately 50 years ago, newly generated neurons

were discovered in the adult hippocampus of the rat brain. This

discovery contradicted a key principle in mammalian

developmental neurobiology that all the neurons of the brain are

made during early development and led to intensive study to find

out how new neurons are generated and how the process of

neurogenesis is regulated. Since then, a unique population of

adult neural stem cells has been identified, and many of the

molecular pathways that control their self-renewal,

proliferation, and cell fate have been elucidated. However, the

presence of new neurons in the adult brain also poses intriguing

functional questions that have, as yet, gone largely unanswered.

Why is adult neurogenesis restricted to select brain regions? What

functional benefit do these new cells confer? Indeed, the field of

adult neurogenesis offers a unique opportunity to study naive

neurons as they mature, form connections with existing neural

networks, and begin to participate in information processing.

We review the basics of adult NSC biology and the maturation of

newborn neurons. In particular, we focus on new neurons in the

hippocampus, and how...



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