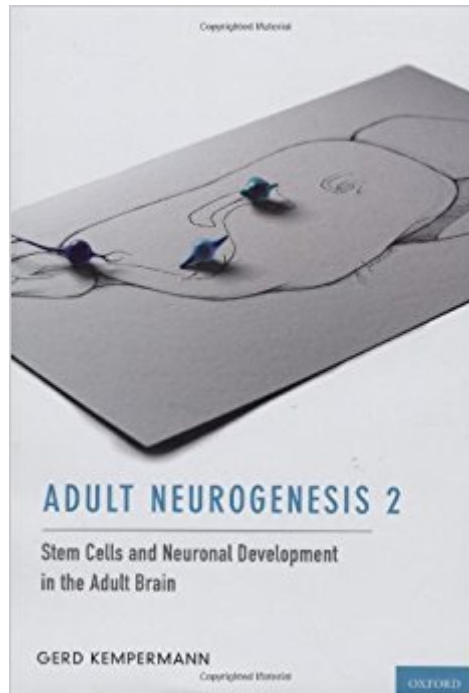




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# Adult Neurogenesis 2



## Synopsis

Research on adult neurogenesis and neural stem cell biology is among the fastest-growing and most dynamic fields in neuroscience. With new neurons being produced throughout our lives, there is a fundamental change in perspective: brain development never ends and brain plasticity can go beyond synapses and neurites. *Adult Neurogenesis 2* is the authoritative reference on new neurons in the adult brain, on the regulation of adult neurogenesis and the functional relevance of new neurons including their contribution to learning and memory. After a historical overview the book describes in detail adult neurogenesis in the hippocampus as well as the subventricular zone and olfactory bulb. Regulatory mechanisms at all levels from cellular to behavioral are discussed in great detail. The subject of neurogenesis outside the "canonical" neurogenic regions of rodents and primates is discussed and an entire chapter is dedicated to adult neurogenesis in different species. The book concludes with a chapter on the hypotheses that link failing adult neurogenesis and neural stem cells with diseases such as temporal lobe epilepsy, major depression, schizophrenia, brain tumors, and dementias. For everybody interested in new neurons for old brains, *Adult Neurogenesis 2* provides a unique resource for the years to come. With steadily increasing interest in adult neurogenesis across neurobiology and medical neurosciences as well as in the public this new edition couldn't be more timely. The text has been completely re-written to cover the more than thousand new reports published after the first edition had come out, new tables summarize complicated issues, a new layout facilitates quick reference, and many new color illustrations visualize important concepts. *Adult Neurogenesis 2* received the 2011 BMA Medical Book of the Year.

## Book Information

Hardcover: 616 pages

Publisher: Oxford University Press, USA; 2 edition (January 26, 2011)

Language: English

ISBN-10: 0199729697

ASIN: B00AK2N0V4

Product Dimensions: 10.1 x 1.6 x 7.4 inches

Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 2 customer reviews

Best Sellers Rank: #2,114,425 in Books (See Top 100 in Books) #93 in [Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Embryology](#) #182 in [Books >](#)

## Customer Reviews

"The field of neurogenesis is rapidly advancing, and a second edition after five years is most appreciated. This book serves as a useful reference for those in, or working adjacent to, the vast research being conducted." --Doody's

Gerd Kempermann is Professor at the CRTD, Center for Regenerative Therapies Dresden, and Speaker of the Dresden site of the DZNE, the German Center for Neurodegenerative disease. He works on the question of how genes and activity regulate adult neurogenesis and what the function of new neurons in the adult brain is.

For the past sixty years or so I have studied under teachers striving to be contemporary and written papers leading to what is within this book, yet many people speaking and writing and commanding authority remain in the dark ages of dogma - - especially as highly creative people push the limits of perception and the ability to learn from being child proteges onward into late adulthood. Apparently once the authoritative scholars achieved their degrees in higher learning, they stopped learning and today remain in that era, and need what is in this book all the more. I feel there are some perspectives further needed. If alcohol damages neural development of a fetus, should it not impede the genesis of neurons in the adult brain? To me even without formal study this appears likely, as I review my past episodes of study and continue to try to learn as I approach my eighth decade. This book makes excellent food for small-talk if you have the right kind of colleagues, friends, and neighbors.

I borrowed the first version of this book (Adult Neurogenesis) from my institution's library and put off buying this updated version for far too long because of the price. Now I wish that I had broken down and bought it much sooner. I've been leaning on this book heavily for a lot of the basic background info for my PhD thesis proposal. It summarizes the thousands of recent articles concerning adult neurogenesis in a painless and accessible format. It is well referenced and provides the perfect portal for more in depth research. My only complaint is that it seems to have a lot of grammatical errors, which can sometimes slow me down and leave me re-reading the same sentence over and over again before I figure out what it's trying to say. Oddly, it's not the technical information that

slows down the reading comprehension... it's the plethora of transposed words and garbled sentence structure. I'd still say that this book is worth the money, as it has proven to be invaluable to my thesis writing, and contains a lot of unique information not found in other texts. I just wish it had been edited more thoroughly so that I could give it that one last star.

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