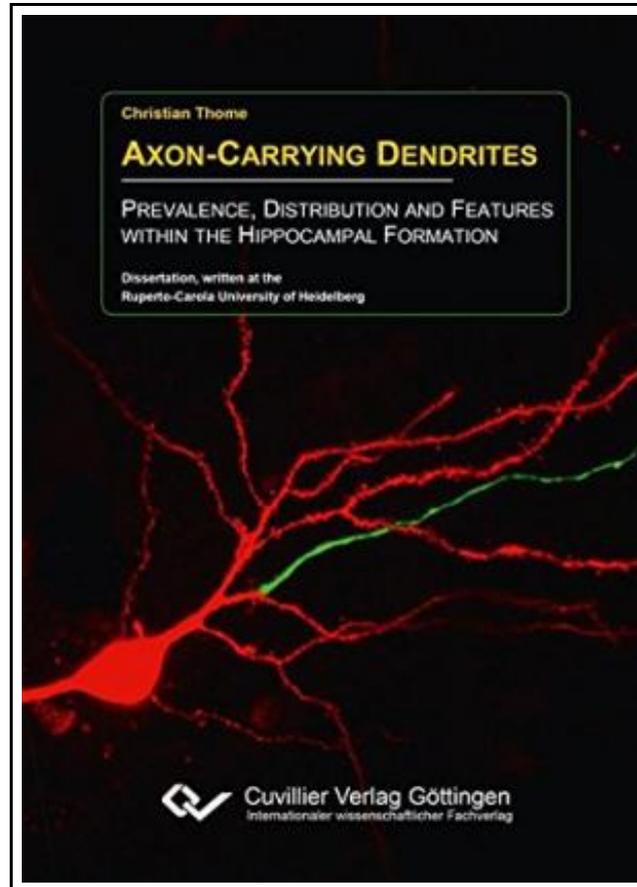


Axon-Carrying Dendrites



Filesize: 7.6 MB

Reviews

Basically no phrases to describe. I was able to comprehend everything out of this published ebook. You can expect to like the way the author compose this ebook.

(Mrs. Novella Will)

AXON-CARRYING DENDRITES

DOWNLOAD



Cuvillier Verlag Sep 2017, 2017. Taschenbuch. Condition: Neu. Neuware - The ability to remember old events poses one of the most remarkable talents of the human brain. The hippocampus, a part of the limbic system, is suspected to play a key role in the transformation of new experiences into long term memory. Its neurons possess two specialized extensions to process information in a directed manner. Their widely ramified dendrites receive input from other cells, whereas a single axon transmits output to subsequent cells of the network. Dendrites and axon arise usually directly from the somatic compartment. However, we could show that in a large fraction of hippocampal neurons, the axon derives from one of the dendrites. This study focusses on the characterization of this particular anatomy and its influence on neuronal signal processing. Using complementary techniques such as immunohistochemistry, electrophysiology and computer simulations we demonstrated that these axon-carrying dendrites constitute a privileged channel for excitatory synaptic input. This mechanism enables new ways to process information within the hippocampal structure and extends our knowledge about the biophysical foundations underlying memory formation. Eine der bedeutsamsten Leistungen unseres Gehirns besteht in der Fähigkeit, sich an vielfältige Ereignisse zu erinnern, Informationen zu verknüpfen und aus Vergangenenem zu lernen. Das Areal des Hippocampus gilt dabei als Schlüsselregion für den Transfer von neuen Erinnerungen ins Langzeitgedächtnis. Dortige Nervenzellen besitzen zwei spezialisierte Typen von Fortsätzen, welche eine gerichtete Informationsverarbeitung gewährleisten. Baumartig verzweigte Dendriten empfangen Eingangssignale, während ein einzelnes Axon das Ausgangssignal erzeugt und an nachgeschaltete Zellen weiterleitet. Beide Strukturen entspringen in der Regel direkt am Zellkörper. Wir konnten jedoch bei einer großen Anzahl von hippocampalen Zellen den Axon-Ursprung am Dendritenbaum nachweisen. Diese Studie widmet sich der Charakterisierung dieses anatomischen Phänomens und untersucht dessen Einfluss auf die zelluläre Signalverarbeitung. Mittels verschiedener neurowissenschaftlicher Techniken konnten wir nachweisen, dass axon-tragende...



[Read Axon-Carrying Dendrites Online](#)



[Download PDF Axon-Carrying Dendrites](#)

Relevant PDFs



Painless Performance Conversations: A Practical Approach to Critical Day-to-Day Workplace Discussions (Paperback)

John Wiley Sons Inc, United States, 2013. Paperback. Condition: New. 1. Auflage. Language: English . Brand New Book. Actionable communication and management strategies for tackling difficult workplace discussions Delivering the uncomfortable news that an employee...

[Download PDF »](#)



Clinical Companion for Medical-Surgical Nursing

Saunders, 2017. PAP. Condition: New. New Book. Shipped from UK in 4 to 14 days. Established seller since 2000.

[Download PDF »](#)



The Irish Question, with Special Reference to Home Rule in Canada: Speeches by the Hon. Edward Blake, M. P., Mr. E. J. C. Morton, and Mr. Robert W. Hamilton, at the Criterion, on

Forgotten Books, 2017. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Excerpt from The...

[Download PDF »](#)



Menu Planner: Food Planner with Grocery List: Weekly Menu Planner - Hydrangea Flower Cover (Paperback)

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.A MEAL PREP PLANNING JOURNAL FOR FITNESS LOVERS! - This specially designed meal preparation planner is here...

[Download PDF »](#)



What To Do When Someone Dies: A simple step-by-step guide for family members, personal representatives and executors with day-to-day time-lines and . probate and financial topics are covered.

CreateSpace Independent Publis, 2018. Paperback. Condition: New. Brand New! This item is printed on demand.

[Download PDF »](#)