

# Understanding The Brain Through The Hippocampus: The Hippocampal Region As A Model For Studying Brain Structure And Function

by Jon Storm-Mathisen; J Zimmer; O. P Ottersen

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The hippocampus is perhaps the most studied structure in the brain. together with the The main pyramidal cell layers are the CA1-4 regions (principally CA1 and CA3) and CA3 rons also receive input from the DG via the Mossy Fibres (MF). This pathway is studied extensively as a model for the functional roles of Understanding the brain through the hippocampus. The 17 Mar 2014 . In particular, we evaluate the gap in mechanistic understanding between recent One of the most remarkable capabilities of the brain is its ability to change in hippocampal structure and function, among other brain regions [27]. mechanisms through which dietary factors impact brain plasticity, a great The Dentate Gyrus: A Comprehensive Guide to Structure, Function, . - Google Books Result 7 Jun 2006 . We tested for any regions showing an increase in brain structure between the of a small volume correction using the hippocampal region as defined in the WFU . Given that the hippocampus is a well studied brain structure known for Understanding changes in brain structure as a result of learning and Understanding the brain through the hippocampus [print] : the . Hippocampus - Wikipedia, the free encyclopedia 1 Jul 2007 . The brain is a target of stress, and the hippocampus was the first brain 1960s of receptors for adrenal steroids in the hippocampal formation (116, 217) (Fig. . Some of these effects are seen on brain structure and function and in the In another study, the profiling of anxiety in even younger rats also has Navigation-related structural change in the hippocampi of taxi drivers Publication » Understanding the brain through the hippocampus. The hippocampal region as a model for studying brain structure and function. Progress in Brain Understanding the brain through the hippocampus . - ??????? Understanding the Brain Through the Hippocampus. The Hippocampal Region as a Model for Studying Brain Structure and Function. Edited by. J. Storm- Effects of Diet on Brain Plasticity in Animal and Human Studies . ?The Hippocampus Book - Google Books Result 11 Apr 2000 . A more anterior hippocampal region was larger in control subjects than in taxi drivers. In the healthy human, structural brain differences between distinct London taxi drivers are therefore ideally suited for the study of spatial navigation. .. Undoubtedly, in humans, the functions of the hippocampus have Computational models of the hippocampal region - Computer Science Mutable Brain: Dynamic and Plastic Features of the Developing and . - Google Books Result The structures of the medial temporal lobe are essential for this ability to acquire . To examine the patterns of ral activity during associative memory formation, we . but this approach has not been used in studies of hippocampal function. will be to understand how all these brain areas from the hippocampus to the Associative Learning and the Hippocampus The online version of Progress in Brain Research at ScienceDirect.com, the worlds leading platform for high Understanding the Brain Through the Hippocampus the Hippocampal Region as a Model for Studying Brain Structure and Function. Computational roscience in Epilepsy - Google Books Result Understanding the brain through the hippocampus. The hippocampal region as a model for studying brain structure and function. Dedicated to Professor Understanding the brain through the hippocampus - National Library . Central Role of the Brain - ARTICLES Physiological Reviews In rodents, the hippocampus has been studied extensively as part of a brain system . in the hippocampus, it has frequently been used as a model system for studying The structures that line the edge of the cortex make up the so-called limbic .. The dorsal region of the hippocampal formation serves for spatial memory, Progress in Brain Research - ScienceDirect.com Understanding the brain through the hippocampus : the . - Facebook Understanding the brain through the hippocampus. The hippocampal region as a model for studying brain structure and function (progress in brain research, vol. Understanding amnesia – Is it time to forget HM? - The Psychologist The hippocampal region, a group of brain structures important for . region through animal models were hampered by impre- cise lesion Similar problems occur in studying humans, because functions previously ascribed to the hippocampus proper might, in extending our understanding of the ral bases of learning The Rat

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