The Hippocampus Book
John O'Keefe
Edited by Per Andersen, Richard Morris, David Amaral and Tim Bliss


Table of Contents

1. The Hippocampal Function, Per Andersen, Richard Morris, David Amaral, Timothy Bliss, and John O'Keefe
2. Historical Perspective: Proposed Functions, Biological Characteristics, and Neurobiological Models of the Hippocampus, Per Andersen, Richard Morris, David Amaral, Timothy Bliss, and John O'Keefe
3. Hippocampal Neuroanatomy, David Amaral and Pierre Lavenex
4. Morphological Development of the Hippocampus, Michael Frotscher and Laszlo Seress
6. Synaptic Function, Dimitri M. Kullmann
8. Local Circuits, Eberhard Buhl and Miles Whittington
9. Structural Plasticity, Elizabeth Gould
10. Synaptic Plasticity in the Hippocampus, Timothy Bliss, Graham Collingridge, and Richard Morris
11. Hippocampal Neurophysiology in the Behaving Animal, John O'Keefe
12. Functional Roll of the Human Hippocampus, Craig Stark
13. Theories of Hippocampal Function, Richard Morris
15. Stress and the Hippocampus, Richard Morris
16. The Hippocampus and Human Disease, Matthew Walker, Dennis Chan, and Maria Thom
The central theme in the book is that the limbic system, particularly the amygdala, uncus, hippocampus, and cingulum, forms the primitive "fight or flight" center of the brain. Modifying the species' tendency for basic destructive tendencies is the control exerted by the neocortex.