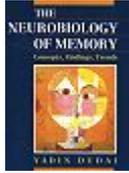


## The Neurobiology of Memory

Concepts, Findings, Trends

Yadin Dudai



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- 'a coherent and lucid account ... If any one word can characterize this text it is 'thoughtful'. The author has thought deeply about many fundamental issues in the field and expresses these thoughts clearly.' Christine Logan & Richard F. Thompson, University of Southern California, Los Angeles, Trends in Neurosciences, Vol.13, No.10(148) October 1990' -
- 'This is a very discursive book which successfully covers a vast amount of ground ... written in an entertaining style ... very accessible with all the concepts being well explained and it would therefore make a good undergraduate text.' S. N. Davies, Experimental Physiology, 75, 3' -
- '... a well-written and superbly illustrated up-to-date introduction to the neurobiology of memory which can serve as a valuable supplement to the more clinically oriented textbooks.' International Journal of Geriatric Psychiatry' -
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## Description

Uniquely bridging all levels of neurobiological analysis, this book describes and explains step-by-step the concepts, methods, findings and conclusions of modern learning research. The text starts with a treatment of simple nervous systems and molecular mechanisms, proceeds to more complex learning and development, and concludes with the functional

organization of highly complex memory systems in the human brain and their disintegration in amnesia. The book, supplemented by 1100 references and many illustrations, is intended for advanced undergraduate and graduate courses, as well as for neuroscientists who seek a comprehensive overview of the field. It should also be of interest to scientists from other disciplines and to other readers who wish to learn about the new neurobiology of learning.

**Readership:** First-degree students, postgraduates, and postdoctoral researchers in the neurosciences: psychologists, life scientists, cognitive scientists, computer scientists. Physicians, especially neurologists and psychiatrists.

1. Neurobiology of Memory Dr Ravi Soni Senior Resident-I Dept. of Geriatric Mental Health KGMC, LKO. 2. Discussion over  
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Afferents and efferents from hippocampus formation  
Learning and memory  
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Molecular mechanisms in Explicit Memory  
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Anatomically refers to areas surrounding the diencephalon (limbus = border) and bordering the cerebral cortex.  
The C-shaped hippocampal formation and includes the amygdala, cingulate and parahippocampal  
BOOK REVIEWS 1431 The Neurobiology of Memory. By YADIN DUDAI. Oxford University Press, Oxford, 1989. IT IS RARE to find a textbook with an argument, but Dudais Neurobiology of Memory is just that. It is also beautifully written, veering over the edge into idiosyncrasy only occasionally. Published 3 years ago, I have used in undergraduate courses on Brain and Behaviour and Neural Mechanisms of Learning and Memory for 2 years. The students like it and even give a fairly convincing indication of having read it. Molecules and Memories \*Making Memories: Conceptual Issues and Methods \*Memory Formation: Early Stages \*Memory Consolidation \*Memory Maintenance and Forgetting\* \*Memory Modulation Systems \*The Fate of Retrieved Memories. Part Three. Neural Systems and Memory \*Memory Systems and the Hippocampus \*The Hippocampus Index and Episodic Memory \*The MTH System: Episodic Memory, Semantic Memory, and Ribot's Law\* \*Actions, Habits, and the Cortical-"Striatal System \*Learning about Danger: The Neurobiology of Fear Memories. The Neurobiology of Learning and Memory. Second Edition. Jerry W. Rudy. Sin