The Neurobiology of Memory
Concepts, Findings, Trends
Yadin Dudai

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Description

Reviews
"Dudai attempts to achieve two goals: to write a textbook on the neurobiology of learning and memory that is accessible to advanced undergraduate and graduate students, and to provide a reference text for neuroscientists interested in this field. In general, the book achieves both aims . . . well written, extensively referenced, and thoughtful—an excellent acquisition for any upper division undergraduate or university library with clientele interested in the biology of behavior." -- Choice

". . . Dudai's book represents 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 orientated textbooks." -- International Journal of Geriatric Psychiatry

"The product of a broad and intelligent understanding of the neurobiology of learning. The author has taken a bold step in incorporating many disparate views with his own, and has produced a stimulating and valuable guide to a theory of the neural basis of memory." -- Journal of Nervous and Mental Diseases

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Reviews

- 'The bibliography is good and the presentation is exemplary. This must be the definitive introduction to the neurobiology of memory.' - The Lancet
- 'excellent and readable book ... full marks to author and publisher' - Steven Rose, New Scientist
- 'The book is warmly recommended for students and researchers in the extensive field of the neurosciences.' - Journal of the Neurological Sciences'
- 'The bibliography is good and the presentation is exemplary. This must be the definitive introduction to the neurobiology of memory.' - The Lancet
- 'This is a fascinating account of the state of the art at one of the frontiers of brain research.' - Aslib Book List'
- 'One of Dudai's great virtues is that he is at pains to set out the logic of the arguments on which neurobiological analysis depends.' - Times Higher Education Supplement'
- 'excellent and readable book ... full marks to author and publisher' - Steven Rose, New Scientist
- 'written in an entertaining style ... very accessible with all the concepts being well explained and it would therefore make a good undergraduate text.' - Experimental Physiology'
- 'The Neurobiology of Memory may certainly serve as a stimulating introduction to the present state of the art in the quest for the neurobiological mechanisms underlying learning.' - 'the book is very readable and has an attractive layout. It contains an extensive index and an impressive bibliography' - Anim Behav'
- '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'
- 'It is rare to find a textbook with an argument, but Dudai's Neurobiology of Memory is just that. It is also beautifully ... it can ... be read with great profit by anyone interested in the field and I have every intention of using it again with the students next year. They repeat back some of the best jokes in the book in their exam answers, and several of them are good enough to bear repeating.' - Richard Morris, Neuropsychology, Vol. 31, No. 12, 1993'
- 'It is rare to find a textbook with an argument, but Dudai's Neurobiology of Memory is just that. It is also beautifully written ... The book contains many examples of how experiments were done without overloading the text with unnecessary technical detail. There are also some light touches of prose that make one smile and that's no bad thing in a book for students ... it can ... be read with great profit by anyone interested in the field.' - Richard Morris, Neuropsychology, December 1993'

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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.