



The Hippocampus Book (Oxford Neuroscience Series)

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The hippocampus is one of a group of remarkable structures embedded within the brain's medial temporal lobe. Long known to be important for memory, it has been a prime focus of neuroscience research for many years. *The Hippocampus Book* promises to facilitate developments in the field in a major way by bringing together, for the first time, contributions by leading international scientists knowledgeable about hippocampal anatomy, physiology, and function. This authoritative volume offers the most comprehensive, up-to-date account of what the hippocampus does, how it does it, and what happens when things go wrong. At the same time, it illustrates how research focusing on this single brain structure has revealed principles of wider generality for the whole brain in relation to anatomical connectivity, synaptic plasticity, cognition and behavior, and computational algorithms. Well-organized in its presentation of both theory and experimental data, this peerless work vividly illustrates the astonishing progress that has been made in unraveling the workings of the brain. *The Hippocampus Book* is destined to take a central place on every neuroscientist's bookshelf.

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Editorial Review

Review

"An all-in-one resource of information about the hippocampus, this book is a masterly achievement. It is a superbly written synthesis of all scientific advances that have been made in understanding the workings of the hippocampus, from the molecular side to physiology to cognitive function, theories, computational models and human diseases. Each chapter is written in a refreshing and lively manner and is a source of ideas that will no doubt pave the way for new and imaginative research. Clearly, this is an important tome for both students and scientists that goes far beyond hippocampladom -- it is a "must read" for anyone with a serious interest in the brain as a whole."--*Serge Laroche, Director of Research at CNRS, Director of the Laboratory of Neurobiology of Learning and Memory, Université Paris Sud*

"As a former student of three of the editors, I have followed the maturation of this book with curiosity and excitement. The result is a thoughtful, comprehensive and integrated account of the structure, physiology and functions of the hippocampus viewed from the perspective of some of the scientists who initiated the modern era of hippocampal research. With its historical emphasis and its attempts to put results into a broad context, this is both the book I looked for as a beginner 15 years ago and a scholarly discussion that will guide hippocampal research into the future."--*Edvard Moser, Centre of Excellence Director, Centre for the Biology of Memory, Norwegian University of Science and Technology*

"At last, a comprehensive and authoritative textbook by world-renowned researchers on the hippocampus, the beautiful and enigmatic brain structure that gives us memories."--*Peter H. Seeburg, Director and Scientific Member, Department of Molecular Neuroscience, Max Planck Institute for Medical Research*

"This book is the magnificent realization of an exciting dream held by some of the world's leading neuroscientists who have a special interest in the functions of the hippocampus. Students and researchers alike will find it an excellent first-choice resource for many years to come. The authors provide an up-to-date and sophisticated account of the operations of the hippocampus, from molecules to behaviour, coupled with an entertaining historical perspective that few others could provide. This book will take the most prominent place on my bookshelf."--*Cliff Abraham, Department of Psychology, University of Otago*

"It might seem odd to focus an encyclopedic volume on a single organ of the brain. But the hippocampus is more than a brain structure - it represents the many levels of analysis we pursue in understanding the neurobiology of memory. Deservedly then, on occasion it is important to characterize the state of our knowledge in this important area, and this book is the first to do so since the 1970s. Written by prominent leaders in the field, it is marvelously comprehensive in scope and rich in interpretation, a must read for every student seeking an overview of the field from molecules to memory."--*Howard Eichenbaum, Director, Center for Memory and Brain, Boston University*

"The book covers the topic well and the writing is fluid with multiple pertinent illustrations and references...this is an excellent book written by leading experts in the field."--*Doody's*

"This volume serves as a precise guide to hippocampal discoveries and hence we can forget about PubMed: here we have almost all of the important information about the hippocampus in context."--*Nature Neuroscience*

"...captures the lore of the field and will serve as a reliable guide for the next generation of hippocampologists."--*Science*

"This book is a magnificent achievement, and we are unlikely to see anything like it again in the near, or even not so near, future. The five Editors, each of whom has devoted much of his career (and life) to the study of the hippocampus, have produced a labor of love, and the rest of us get to benefit from their persistence and passion."--*Hippocampus*

"This is, in short, an outstanding scholarly book that deserves to be read by anyone with a deep interest in neuroscience or memory and will no doubt be frequently referred to in the future."--*PsycCRITIQUES*

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"*The Hippocampus Book* is--in a word--masterful. It is a work of deep scholarship, a labor of love delivered by a group of scientists who have devoted much of their working lives to the pursuit of understanding this brain system. One may not agree with all of it, but from this day forward it is the essential resource for all matters hippocampal, from molecules to memory."--*Lynn Nadel, Regents Professor of Psychology and Cognitive Science, University of Arizona*

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"[Wisely] the editors, five stalwarts of hippocampal research, sought to supplement their own knowledge with a cast of relevant experts. The result is a rich and informative textbook written by the people who are actually at the coalface. For the most part it manages to be accessible to the newcomer, introducing basic ideas and providing suitable orientation, while still retaining enough depth to serve as a reference for more experienced researchers." --*Cortex*

"Overall, I've read the book from cover to cover with interest....I would strongly recommend the book..."--Leonard Leibovici in *Journal of Antimicrobial Chemotherapy*

About the Author

Per Anderson is at the University of Oslo. Richard Morris is at the University of Edinburgh. David Amaral is at the University of California-Davis. Tim Bliss is at the National Institute for Medical Research, London. John O'Keefe is at University College, London.

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