

The Synaptic Organization Of The Brain

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this is a thorough revision of the standard text on local circuits in the different regions of the brain in this fifth edition the results of the mouse and human genome projects are incorporated for the first time also for the first time the reader is oriented to supporting neuroscience databases among the new advances covered are 2 photon confocal laser microscopy of dendrites and dendritic spines biochemical analyses and dual patch and multielectrode recordings applied together with an increasing range of behavioral and gene targeting methods

this elegant book presents current evidence on the organization of the mammalian cerebral cortex the focus on synapses and their function provides the basis for understanding how this critical part of the brain could work dr white and his colleague dr keller have collated an impressive mass of material this makes the crucial information accessible and coherent dr white pioneered an area of investigation that to most others and occasionally to himself seemed a bottomless pit of painstaking attention to detail for the identification and enumeration of cortical synapses i do not recall that he or anyone else suspected when he began to publish his now classic papers that the work would be central to an accelerating convergence of information and ideas from neurobiology and computer science especially artificial intelligence ai rumelhart and mcclelland 1986 the brain is the principal organ responsible for the adaptive capacities of animals what has impressed students of biology of medicine and to an extent of philosophy is the correlation between the prominence of the cerebral cortex and the adaptive complexity of a particular species most agree that the cortex is what sets homo sapiens apart from other species quantitatively and qualitatively rakic 1988 this is summarized in the first chapter

this volume looks at the latest methodological developments used in the field to investigate the synaptic organization of the brain from different viewpoints including structural structural functional molecular and computational methods the chapters in this book are organized into five parts and cover topics such as preparation of brain tissue and techniques connectivity synaptic vesicles phenomenological modeling and dendritic spines in the neuromethods series style chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory authoritative and thorough new aspects in analyzing the synaptic organization of the brain is a valuable resource that will help students post docs and even expert researchers learn more about the discipline of cellular and synaptic neuroscience

the synapse is a fascinating structure for many reasons biologically it is an exquisitely organized subcellular compartment that has a remarkable capacity for fidelity and endurance computationally synapses play a central role in signal transmission and processing that represent evolution's solution to learning and memory nervous systems including our own brains possess an extraordinary capacity for adaptation and memory because the synapse not the neuron constitutes the basic unit for information storage because the molecular complexities underlying signal processing and information storage must occur within the tiny space of the synapse the precise molecular organization of proteins lipids and membranes at the synapse is paramount given the central role of the synapse in neuronal communication it comes as no surprise that

dysregulation of the synapse accounts for many if not most neurological and psychiatric disorders clinically the synapse thus constitutes a prime target for treatments of these diseases it is for these reasons that we have chosen to focus our work on deciphering the structural and functional organization of the synapse we have assembled leaders in the field of synapse biology to describe and distill the wonders and mysteries of the synapse this book provides a fundamental description of the synapse developed over many decades by numerous investigators paired with recent insight into new aspects of synapse structure and function that is still in flux and at the cutting edge of research

the accumulation of literature dealing with the structure and function of synapses presents the synaptologist with a formidable problem the diverse interests now encompassed by synaptology and the many facets of neurobiology mirrored in these interests make the task of reviewing synaptic organization a major one selection must be made and if the reader is not to be misled biases must be exposed my frame of reference is the presynaptic terminal that is the enlarged termination of the axon figs 1 and 2 this includes the specialized presynaptic membrane running alongside the cleft region and associated with the dense projections and presynaptic vesicular grid figs 1 and 8 within the cytoplasm of the terminal are the synaptic and coated vesicles mitochondria the micromamentous presynaptic network and possibly microtubules my approach to the presynaptic terminal will rely principally on morphological concepts although biochemical features of the composition of the functional region are essential for a basic understanding of synaptic organization and reference to these will also be made

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