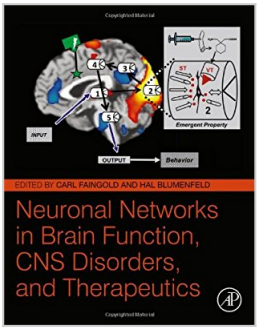

Neuronal Networks in Brain Function, CNS Disorders, and Therapeutics

From Academic Press

Neuronal Networks in Brain Function, CNS Disorders, and Therapeutics
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Neuronal Networks in Brain Function, CNS Disorders, and Therapeutics, edited by two leaders in the field, offers a current and complete review of what we know about neural networks. How the brain accomplishes many of its more complex tasks can only be understood via study of neuronal network control and network interactions. Large networks can undergo major functional changes, resulting in substantially different brain function and affecting everything from learning to the potential for epilepsy.

With chapters authored by experts in each topic, this book advances the understanding of:

- How the brain carries out important tasks via networks
- How these networks interact in normal brain function
- Major mechanisms that control network function
- The interaction of the normal networks to produce more complex behaviors
- How brain disorders can result from abnormal interactions
- How therapy of disorders can be advanced through this network approach

This book will benefit neuroscience researchers and graduate students with an interest in networks, as well as clinicians in neuroscience, pharmacology, and psychiatry dealing with neurobiological disorders.

- Utilizes perspectives and tools from various neuroscience subdisciplines (cellular, systems, physiologic), making the volume broadly relevant
- Chapters explore normal network function and control mechanisms, with an eye to improving therapies for brain disorders
- Reflects predominant disciplinary shift from an anatomical to a functional perspective of the brain
- Edited work with chapters authored by leaders in the field around the globe – the broadest, most expert coverage available

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Editorial Review

Review

"The book is a welcome and scholarly recognition of the growing importance of networks in neuroscience and neurological care." "Students and practitioners of Neuroscience, Neurology, Psychiatry, Pharmacology and Information Science as applied to the brain will find this to be a useful summary of systems data and a new conceptual framework." - Robert S. Fisher, MD, PhD, Professor of Neurology and Director, Comprehensive Epilepsy Center, Department of Neurology and Neurological Sciences, Stanford University Medical Center.

"This volume, edited by Carl Faingold and Hal Blumenfeld, focuses on neural networks – what they are, how we study them, and why they are important for understanding normal brain function and treating neuropathologies. The topic is timely and important. Indeed, there is a wealth of information (and a large number of ongoing studies) that deals with the identification and understanding of brain networks, and this volume attempts to bring much of that information together in a coherent package. Of particular importance is the concept of "emergent properties" of a network – characteristics of a network's function that are not observed in the member elements and may not be predictable simply by looking at the members of the network…research on network modulation/disruption will contribute powerful new tools to our therapeutic armamentarium." - Philip A. Schwartzkroin, Ph.D., Professor emeritus, Department of Neurological Surgery University of California, Davis

"Many of the chapters provide outstanding thoughtful, timely, and information-packed reviews of interesting topics…this book will be useful and important to anyone interested in mammalian systems neurobiology, and especially to those to whom basic science/clinical implications matter deeply." - Roger D. Traub, M.D., Dept. Physical Sciences, IBM T.J. Watson Research Center, Yorktown Heights, NY

From the Back Cover

How the brain accomplishes many of its more complex tasks can only be understood via study of neuronal network control and network interactions. Large networks are able to undergo major functional changes, resulting in substantially different brain function and affecting everything from learning to the potential for epilepsy. Edited by two leaders in the field, this volume will offer a current and comprehensive review of what we know about neural networks. With chapters authored by experts in each topic, the volume will serve to advance understanding of how the brain carries out important tasks via networks, how these networks interact in normal brain function, major mechanisms that control network function, the interaction of the normal networks to produce more complex behaviors, how brain disorders can result from abnormal interactions, and how therapy of disorders can be advanced through this network approach. Neuroscience researchers and graduate students alike with an interest in networks will benefit, as will clinicians in neuroscience, pharmacology and psychiatry dealing with neurobiological disorders

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