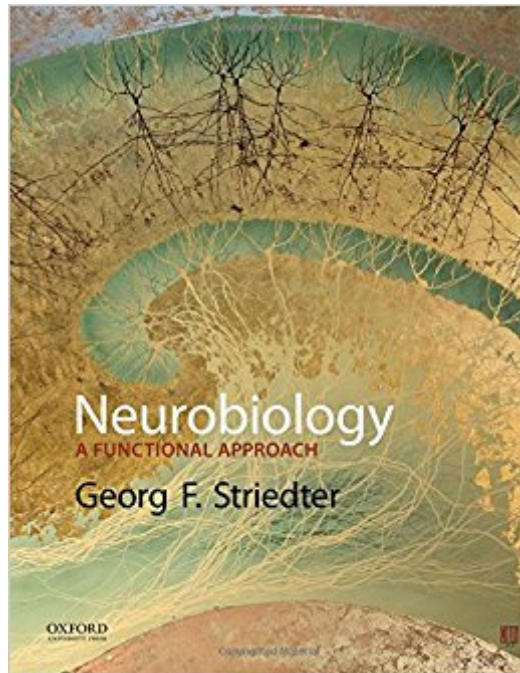




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Neurobiology: A Functional Approach



Synopsis

Focusing on the problems that brains help organisms solve, *Neurobiology: A Functional Approach* asks not only how the nervous system works but also why it works as it does. This text introduces readers to neurobiology through an evolutionary, organismal, and experimental perspective. With a strong emphasis on neural circuits and systems, it bridges the gap between the cellular and molecular end and the cognitive end of the neuroscience spectrum, allowing students to grasp the full breadth of the subject. Neurobiology covers not only what neuroscientists have learned about the brain in terms of facts and ideas, but also how they have learned it through key experiments.

Book Information

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Customer Reviews

"The author has done an exceptional job of taking the concepts covered in other Neuroscience textbooks and organizing them in a way that should help students make the connections between the theory and the practice."--Judith Ochrietor, University of North Florida
"This text approaches neurobiology from an organismal perspective instead of just presenting factual information without context. I like the integrative approach this text offers, and the coverage of neuroanatomy (including important functional pathways) in the first chapter made me want to adopt this text for use in my course."--John D. Griffin, College of William and Mary
"I like this book's overall approach very much. For an introductory textbook it is important to keep things simple, avoid unnecessary jargon, and explain thoroughly the significance of the material, and Professor Striedter does all of these things exceptionally well. The text not only presents the facts, but also explains in detail the original

experiments that discovered these facts, thus encouraging students to understand the science rather than just memorize information."--Kwoon Wong, University of Michigan"By considering the whole organism, and approaching each aspect of the nervous system as a problem, the text connects each topic to the next, allowing students to build a more holistic understanding of the nervous system."--Sara Tallarovic, University of the Incarnate Word"This is a book that I would consider ideal for an Intro Neuroscience course. It has a strong pre-med emphasis, but also adequate animal examples."--Barry Condron, University of Virginia

Georg F. Striedter is Professor of Neurobiology and Behavior at University of California, Irvine. Dr. Striedter's research focuses on the evolution of brain development in different animal species.

A beautifully written book that explains how (and why!) the nervous system works, and it does so in easy to grasp terms. It explains neurobiology in terms of systems that independent units are organized in, and shows connections and links between each process. It really helps to see a bigger picture of how the brain works without compromising on details of each process. The book is very easy to read and understand, which is super important for a text book. Each chapter includes sometimes rather philosophical Brain Exercises that encourage readers to pause and think about why things work that way and what would happen if they would not. I greatly recommend this book for any neurobiology major!

Out of all of the biology textbooks I have read thus far this one was by far the most readable. It describes concepts as they would be described by one of your friends, and still provides just enough detail to satisfy the specificity and rigor of a Neurobiology course. This text is probably not ideal for more advanced courses delving deep into specifics of the nervous system, nor as a reference text for the brain in general. However, it's truly excellent for those just getting their first or second taste of the field of Neurobiology.

Georg Striedter approaches neurobiology from an evolutionary perspective. By explaining the problems that neural cells, systems and circuits were designed to solve he makes their organization and structure meaningful and memorable. He also has a gift for anticipating confusing and esoteric language that, for example, derives from the history of naming structures based on their superficial appearance and providing useful mnemonic aids. This is a delightful textbook, a pleasure to read.

I have him as a professor!! The knowledge gained from reading the textbook helps me conceptualize the main points of Neurobiology and builds my foundation for future Neurobio courses.

It's full of tasty, It's a kind of classical novel, but it also has full of deep knowledge about neuroscience! Thank you so much Professor Striedter. I am also Professor of Neurophysiology but this book for all levels...

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