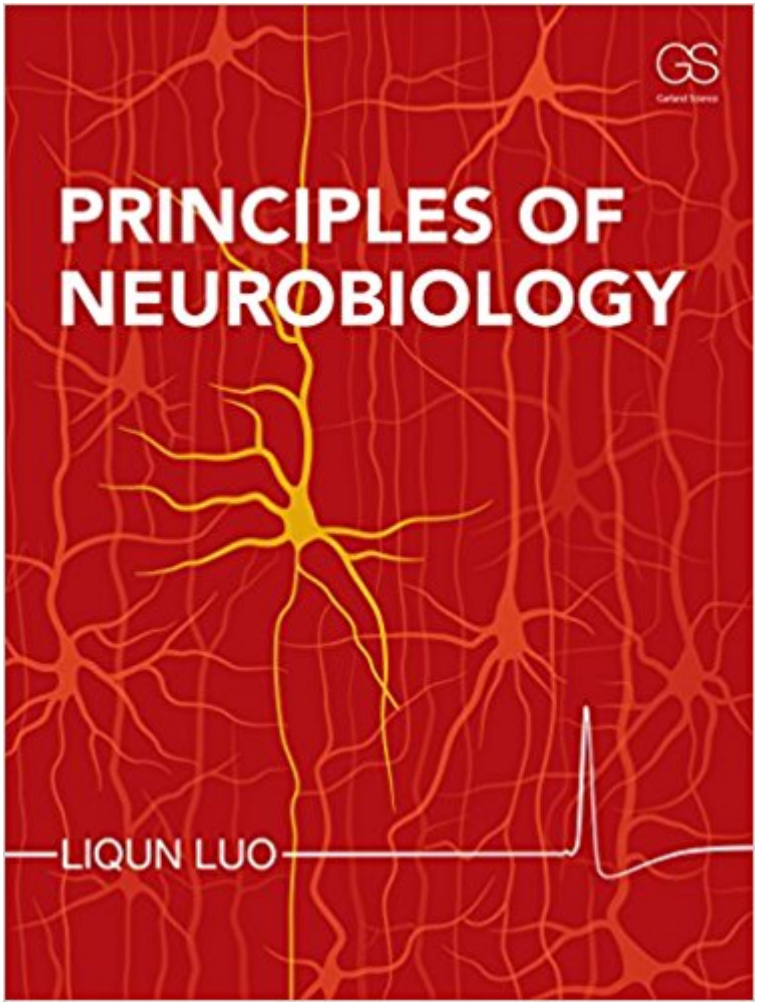
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Principles Of Neurobiology



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Synopsis

Principles of Neurobiology presents the major concepts of neuroscience with an emphasis on how we know what we know. The text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper-level undergraduate and graduate students discover the relevant primary literature. Written by a single author in a clear and consistent writing style, each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach. Students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester-long course. Principles of Neurobiology is accompanied by a rich package of online student and instructor resources including animations, journal club suggestions, figures in PowerPoint, and a Question Bank for adopting instructors. Principles of Neurobiology is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address studentsÃ¢â ¬â„¢ needs precisely and efficiently. For more information and sample material, visit http://garlandscience.rocketmix.com/.

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Customer Reviews

"[Principles of Neurobiology] is distinct in its philosophy and authorship, which makes it valuable for teaching and a pleasure to read. Luo shares with us the belief that students should not be taught just facts and knowledge but also how knowledge is obtained and how principles are derived....In 13 chapters and 645 pages, he provides a masterpiece highlighting principles of how the nervous system transforms and governs our sensation, action, memory, and thought. Reading Principles of Neurobiology is like enjoying a beautiful piece of music....[Luo] has set an example of how an outstanding scientist cares about education and writes a textbook to inspire students to pursue discoveries. We hope that students will follow this pied piper, happily and fruitfully." Cell - October 2015

Dr. Liqun Luo earned his bachelor degree from University of Science & Technology of China and PhD from Brandeis University. Since 1997, Dr. Luo has taught neurobiology to undergraduate and graduate students at Stanford University, where he also directs a lab studying the assembly and function of neural circuits. Dr. Luo is a member of the National Academy of Sciences and the American Academy of Arts and Sciences, and an Investigator of the Howard Hughes Medical Institute.

I have not yet started reading the book...but I was disappointed that in the loose-leaf version, there are holes punched that impinge on the text by about 1 mm. If they had just off-set the holes a little it would have been perfect.In most pages I’ve looked at, it is easy to guess at the word or letters the holes eliminated, but it is irritating.

Good textbook but please note the default order option is NOT A TEXTBOOK but rather an unbound stack of printed paper. Ugh!

Very dense and technical material. I would have liked it to have been written for a first or second year college student, just getting started with neurosciences/neurobiology.

Most informative, superb organisation and extrem clarity. With neurobiology becoming the biomedical science of the 21th century, one could not ask for a better introduction to the field.

Not terribly great as a classroom resource. More updated than Kandel, however, so I can see why

professors may prefer it.

very good text book with up-to-date descriptions of the latest (non-human) neuroscience methods

Book in good condition! Actually nearly brand new. Love it

PRINCIPLES OF NEUROBIOLOGY is brand new neuroscience text book aimed at the upper division undergraduate neuroscience major or the first year neuroscience graduate student. It is exceptional in its organization that, as sole author Liqun Luo states in the preface, ",,, intentionally breaks from the traditional division of neuroscience into molecular, cellular, systems and developmental sections. Instead, most chapters integrate these approaches." It is wonderfully successful at this. In addition, the single author approach results in a uniform style and even depth of coverage. The 13 chapters are carefully organized and sequenced so that the book can be used, as written from beginning to end as a one or two semester course that covers a huge amount of material, from 19th century psychophysics to the newest state of the art in molecular neurobiology.The figures are beautifully done and well-chosen. The experiments illustrated range from redrawings of classical experiments from the middle the 20 century to state-of-the-art neuronal molecular and cell biology and optogenetics. The visual system is especially well done, but so are the sections on the other senses and motor systems. Regulatory systems are covered, including sexual behavior. Learning and memory and development and evolution of the mammalian central nervous system are here, as well as a chapter on neuropsychiatry disorders. The text closes with a welcome and badly needed chapter on techniques, something that is overlooked in most of the other general neuroscience texts that I have read.This text covers general introductory neuroscience from A-Z. I should note that by "neuroscience", I mean principally the structure and function of mammalian neurons and the central nervous system. While there are behavioral experiments described throughout the text, this is definitely a neurobiology-based approach to neuroscience as the title suggests. It does not venture into cognitive neuroscience, something that is better left to a more specialized text. There is also relatively little pharmacology or neurochemistry per se.PRINCIPLES OF NEUROBIOLOGY is, in my opinion, the best single textbook for teaching a comprehensive survey of modern neuroscience. The author is to be congratulated on this fine effort. We will be adopting this book next fall for our first year graduate course, "Foundations of Neuroscience".Highly recommended.JM Tepper

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