



Developmental Neuroscience: A Concise Introduction

By Susan E. Fahrbach



Download



Read Online

Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach

This textbook offers a concise introduction to the exciting field of developmental neuroscience, a discipline concerned with the mechanisms by which complex nervous systems emerge during embryonic growth. Bridging the divide between basic and clinical research, it captures the extraordinary progress that has been achieved in the field. It provides an opportunity for students to apply and extend what they have learned in their introductory biology courses while also directing them to the primary literature.

This accessible textbook is unique in that it takes an in-depth look at a small number of key model systems and signaling pathways. The book's chapters logically follow the sequence of human brain development and explain how information obtained from models such as *Drosophila* and zebrafish addresses topics relevant to this area. Beginning with a brief presentation of methods for studying neural development, the book provides an overview of human development, followed by an introduction to animal models. Subsequent chapters consider the molecular mechanisms of selected earlier and later events, neurogenesis, and formation of synapses. Glial cells and postembryonic maturation of the nervous system round out later chapters. The book concludes by discussing the brain basis of human intellectual disabilities viewed from a developmental perspective.

Focusing on the mechanistic and functional, this textbook will be invaluable to biology majors, neuroscience students, and premedical and pre-health-professions students.

- An accessible introduction to nervous system development
- Suitable for one-semester developmental neuroscience course
- Thorough review of key model systems
- Selective coverage of topics allows professors to personalize courses
- Investigative reading exercises at the end of each chapter
- An online illustration package is available to professors



[Download Developmental Neuroscience: A Concise Introduction ...pdf](#)

 [Read Online Developmental Neuroscience: A Concise Introducti ...pdf](#)

Developmental Neuroscience: A Concise Introduction

By Susan E. Fahrbach

Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach

This textbook offers a concise introduction to the exciting field of developmental neuroscience, a discipline concerned with the mechanisms by which complex nervous systems emerge during embryonic growth. Bridging the divide between basic and clinical research, it captures the extraordinary progress that has been achieved in the field. It provides an opportunity for students to apply and extend what they have learned in their introductory biology courses while also directing them to the primary literature.

This accessible textbook is unique in that it takes an in-depth look at a small number of key model systems and signaling pathways. The book's chapters logically follow the sequence of human brain development and explain how information obtained from models such as *Drosophila* and zebrafish addresses topics relevant to this area. Beginning with a brief presentation of methods for studying neural development, the book provides an overview of human development, followed by an introduction to animal models. Subsequent chapters consider the molecular mechanisms of selected earlier and later events, neurogenesis, and formation of synapses. Glial cells and postembryonic maturation of the nervous system round out later chapters. The book concludes by discussing the brain basis of human intellectual disabilities viewed from a developmental perspective.

Focusing on the mechanistic and functional, this textbook will be invaluable to biology majors, neuroscience students, and premedical and pre-health-professions students.

- An accessible introduction to nervous system development
- Suitable for one-semester developmental neuroscience course
- Thorough review of key model systems
- Selective coverage of topics allows professors to personalize courses
- Investigative reading exercises at the end of each chapter
- An online illustration package is available to professors

Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach Bibliography

- Sales Rank: #1396522 in eBooks
- Published on: 2013-08-11
- Released on: 2013-08-11
- Format: Kindle eBook

 [Download Developmental Neuroscience: A Concise Introduction ...pdf](#)

 [Read Online Developmental Neuroscience: A Concise Introducti ...pdf](#)



Download and Read Free Online Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach

Editorial Review

From the Back Cover

"Written with a rare lucidity and grace, Susan Fahrbach's *Developmental Neuroscience* offers a systematic and logical account of the development of nerve cells and nervous systems, human and otherwise. The book is lecture friendly and the supplementary reading questions are ideal for college courses. It will be of surpassing interest to professors seeking a current treatment of developmental neuroscience."--**Donald Pfaff, Rockefeller University and editor of *Neuroscience in the 21st Century***

"The words 'delightful textbook' do not often occur together but they describe *Developmental Neuroscience* to a tee. Susan Fahrbach has an exceptional voice and, coupled with a deep scholarly bent, a keen ability for explaining the importance of developmental phenomena and how we come to understand them. There is much that is new here even for longtime instructors of the subject. This is a truly valuable addition to the field."--**Darcy Kelley, Columbia University**

"*Developmental Neuroscience* is an elegantly written take on a subject rooted in classical embryology but now yielding to the contemporary tools of molecular genetics and neuroimaging. Fahrbach's approach is patient and steady, surveying the current state of understanding through humans and different model organisms, with a sensitive ear to the cultural issues and contexts that will inform and motivate students."--**David Clayton, Queen Mary, University of London**

"This is the ideal textbook for students who want to think about particular big-picture topics and engage with the primary literature. With simple language, good points, interesting anecdotes, big ideas, and nice tie-in questions, the book provides broad brushstrokes on important issues, which then allows students, through guided discussion, to delve into specific developmental processes or signaling pathways."--**Christopher Korey, College of Charleston**

About the Author

Susan E. Fahrbach is the Reynolds Professor of Developmental Neuroscience in the Department of Biology at Wake Forest University.

Users Review

From reader reviews:

Ginger Beals:

Do you have favorite book? For those who have, what is your favorite's book? Book is very important thing for us to learn everything in the world. Each book has different aim or even goal; it means that e-book has different type. Some people truly feel enjoy to spend their time to read a book. They can be reading whatever they take because their hobby is reading a book. Think about the person who don't like looking at a book? Sometime, individual feel need book when they found difficult problem or perhaps exercise. Well, probably you will want this Developmental Neuroscience: A Concise Introduction.

Wesley Powell:

People live in this new day of lifestyle always aim to and must have the spare time or they will get large amount of stress from both lifestyle and work. So , when we ask do people have spare time, we will say absolutely without a doubt. People is human not really a robot. Then we ask again, what kind of activity have you got when the spare time coming to you actually of course your answer will unlimited right. Then do you try this one, reading guides. It can be your alternative within spending your spare time, the particular book you have read will be Developmental Neuroscience: A Concise Introduction.

Lorraine Stark:

Publication is one of source of knowledge. We can add our information from it. Not only for students but also native or citizen want book to know the update information of year in order to year. As we know those ebooks have many advantages. Beside many of us add our knowledge, can bring us to around the world. Through the book Developmental Neuroscience: A Concise Introduction we can get more advantage. Don't you to definitely be creative people? To get creative person must love to read a book. Just simply choose the best book that suited with your aim. Don't become doubt to change your life with that book Developmental Neuroscience: A Concise Introduction. You can more inviting than now.

James Cummings:

A number of people said that they feel fed up when they reading a reserve. They are directly felt the item when they get a half parts of the book. You can choose often the book Developmental Neuroscience: A Concise Introduction to make your reading is interesting. Your own personal skill of reading skill is developing when you including reading. Try to choose simple book to make you enjoy you just read it and mingle the opinion about book and studying especially. It is to be initial opinion for you to like to start a book and study it. Beside that the publication Developmental Neuroscience: A Concise Introduction can to be your brand new friend when you're feel alone and confuse in doing what must you're doing of the time.

Download and Read Online Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach #9MOHQ3J4L68

Read Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach for online ebook

Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach books to read online.

Online Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach ebook PDF download

Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach Doc

Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach Mobipocket

Developmental Neuroscience: A Concise Introduction By Susan E. Fahrbach EPub