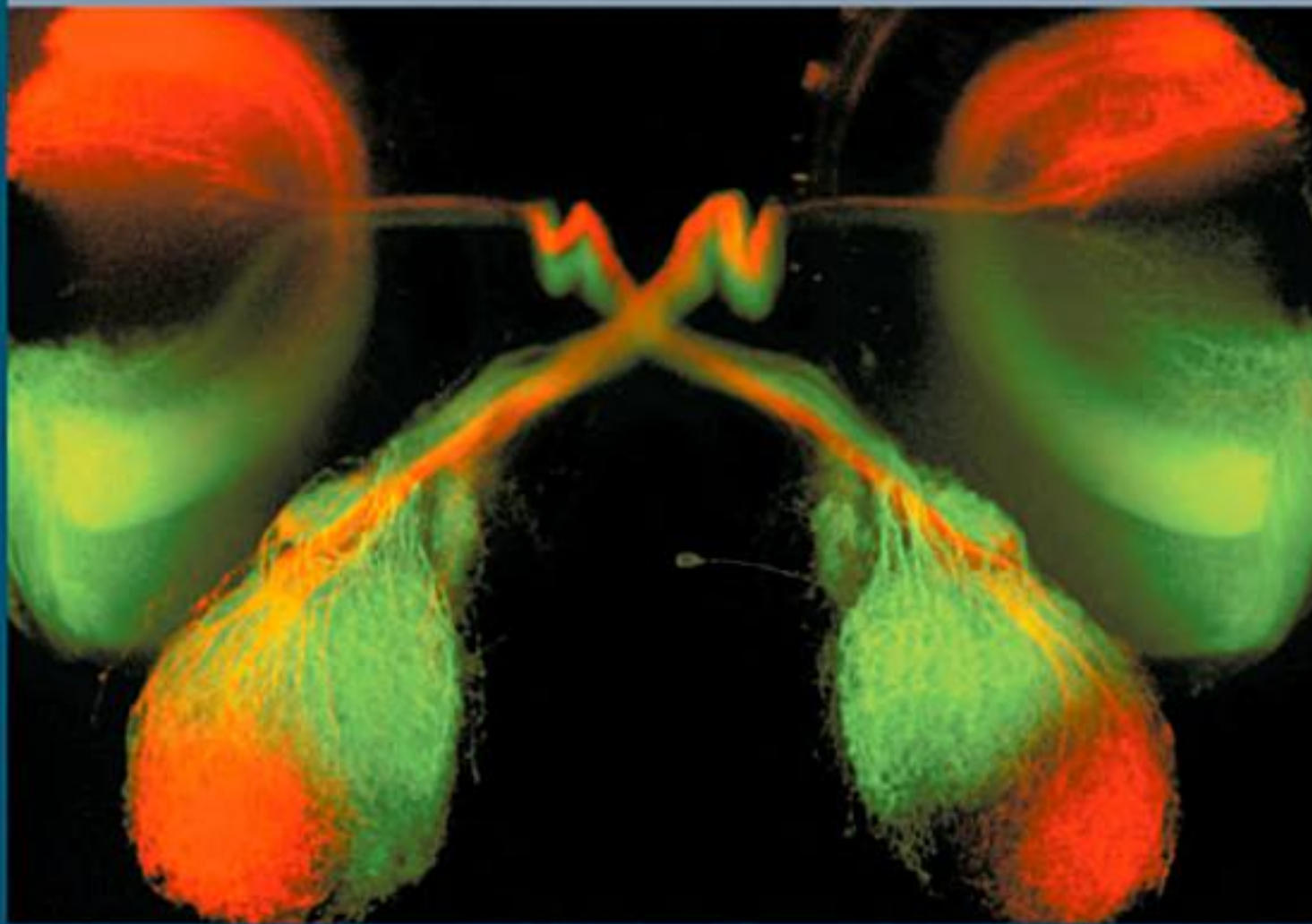


Development of the Nervous System

THIRD EDITION



Dan H. Sanes • Thomas A. Reh • William A. Harris



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Development of the Nervous System, Dan H. Sanes, Thomas A. Reh, William A. Harris, Academic Press, 2011, 0080923208, 9780080923208, 360 pages. Development of the Nervous System presents a broad and basic treatment of the established and evolving principles of neural development as exemplified by key experiments and observations from past and recent times. The text is organized ontogenically. It begins with the emergence of the neural primordium and takes a chapter-by-chapter approach in succeeding events in neural development: patterning and growth of the nervous system, neuronal determination, axonal navigation and targeting, neuron survival and death, synapse formation and developmental plasticity. Finally, in the last chapter, with the construction phase nearing completion, we examine the emergence of behavior. This new edition reflects the complete modernization of the field that has been achieved through the intensive application of molecular, genetic, and cell biological approaches. It is richly illustrated with color photographs and original drawings. Combined with the clear and concise writing, the illustrations make this a book that is well suited to students approaching this intriguing field for the first time. Features - Thorough survey of the field of neural development - Concise but complete, suitable for a one semester course on upper level undergraduate or graduate level - Focus on fundamental principles of organogenesis in the nervous system - Integrates information from a variety of model systems, relating them to human nervous system development, including disorders of development - Systematically develops knowledge from the description of key experiments and results. - Organized ontologically - Carefully edited to be presented in one voice - New edition thoroughly updated and revised to include major new findings - All figures in full color, updated and revised - Specific attention on revising the chapter on cognitive and behavioral development to provide a foundation and outlook towards those very fast moving areas - Instructor website with figure bank and test questions Benefits - The only thorough textbook of Developmental Neuroscience on the market - Carefully structured and edited to map onto the syllabus of most developmental neuroscience courses - Priced to be affordable for undergraduates even in addition to broader textbooks - Carefully constructed instructor's website - Specifically designed to make teaching of complicated subjects easy and fun for instructors and students alike.

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Neuropeptides in the CNS. , Anders Björklund, Tomas Hökfelt, Michael J. Kuhar, Dec 17, 1990, Medical, 549 pages. .

Experimental Design A Handbook and Dictionary for Medical and Behavioral Research, Joachim Krauth, 2000, Medical, 284 pages. Scientists planning experiments in medical and behavioral research will find this handbook and dictionary an invaluable desk reference tool. Also recommended as a textbook for

The Blank Slate The Modern Denial of Human Nature, Steven Pinker, Aug 26, 2003, History, 528 pages. In The Blank Slate, Steven Pinker, one of the world's leading experts on language and the mind, explores the idea of human nature and its moral, emotional, and political

Handbook of Molecular-Genetic Techniques for Brain and Behavior Research , W.E. Crusio, R.T. Gerlai, Oct 18, 1999, Psychology, 962 pages. The book gives a broad overview of recombinant DNA techniques for the behavioral neuroscientist, with illustrative examples of applications. Species covered include rodents

The Cat Primary Visual Cortex , Bertram Payne, Alan Peters, Nov 17, 2001, Science, 725 pages. Written by experts on the forefront of investigations of brain function, vision, and perception, the material presented is of an unparalleled scientific quality, and shows that

Developmental Neurobiology , Greg Lemke, May 22, 2010, Medical, 771 pages. Developmental Neuroscience is one of the six core disciplines in Neuroscience, and yet no single volume, non-textbook reference exists on the market that provides researchers

The Neuron : Cell and Molecular Biology Cell and Molecular Biology, Irwin B. Levitan Ph.D. David J. Maloney Professor and Chair of Neuroscience University of Pennsylvania School of Medicine,

Leonard K. Kaczmarek Ph.D. Professor of Pharmacology and Cellular and Molecular Physiology
Yale University School of Medicine, Oct 15, 2001, Science, 632 pages. The third edition of The
Neuron provides a comprehensive first course in the cell and molecular biology of nerve cells. The
first part of the book covers the properties of the

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Molecular bases of axonal growth and pathfinding , U. Drescher, 1997, Medical, 283 pages. This
CTR-Special is on one of the most exciting topics in the neurosciences, the regulation of axonal
growth during development and in the injured nervous system by attraction

Molecular basis of axon growth and nerve pattern formation , Hajime Fujisawa, 1997, Medical, 280
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Building Brains An Introduction to Neural Development, David Price, Andrew P. Jarman, John O.
Mason, Peter C. Kind, Jul 22, 2011, Medical, 348 pages. The development of a brain from its simple
beginnings in the embryo to the extraordinarily complex fully-functional adult structure is a truly
remarkable process. Understanding

Neural Development and Stem Cells , Mahendra S. Rao, Mohan C. Vemuri, Jun 5, 2012, MEDICAL,
512 pages. This expanded and updated edition reflects the enormous increase in our knowledge of
the development of the nervous system and the use of neural stem cells in clinical

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