

RECEPTORS — IN THE — DEVELOPING NERVOUS SYSTEM

VOLUME 1
*Growth factors and
hormones*

Edited by Ian S. Zagon and
Patricia J. McLaughlin



CHAPMAN & HALL

Receptors In The Developing Nervous System

Charles Manning Child



Receptors In The Developing Nervous System:

Receptors in the Developing Nervous System Ian S. Zagon, Patricia J. McLaughlin, 2012-12-06 Receptors for cell hormones growth factors Fourth alterations in the development of neu and neurotransmitters are involved in the ral receptors may have profound implications control and modulation of an enormous array for the structure and function of the of biological processes The development of organism As much as possible the reper these receptors has distinct spatial and tem cussions of disrupting the orchestration of poral arrangements and alterations in this receptor development in the nervous system pattern during embryogenesis can have signi are discussed In many instances however ficant consequences for the well being of the we are just beginning to learn about some fetus infant child and adult The developing receptors and the authors may not be in a nervous system is particularly dependent on position to discuss the consequences of recep receptors because its period of structural and tor dysfunction functional organization extends through both In designing these two volumes we have prenatal and postnatal phases Moreover asked major figures in each field to review the receptors are a key element in neural com literature to apprise the audience of their munication in both the developing and adult latest findings and to provide a perspective on organism so that the ontogeny of receptors is the role of receptors in the developing nervous crucial in determining the myriad connections system These books are intended to sum forming the circuitry of the nervous system

Receptor Dynamics in Neural Development Christopher Ari Shaw, 1996-02-13 This book provides a comprehensive review of what receptors do in the nervous system how they do it the mechanisms by which receptor function is regulated and the consequences of normal and abnormal receptor function It contains a series of interrelated chapters describing key neurotransmitter receptors protein kinases and protein phosphatases and details their expression and composition in the development of the central nervous system CNS

Maternal Substance Abuse and the Developing Nervous System Ian S. Zagon, Theodore A. Slotkin, 2012-12-02 The purpose of this book is to review the basic science and clinical findings concerning maternal substance abuse and the developing nervous system of unborn children The short term but vitally significant repercussions of such exposure on biological development with particular reference to the nervous system are discussed The book also discusses the profound influence of maternal substance abuse on behavior in adulthood which is caused by subtle changes in the chemistry or structure of the developing nervous system The subject will not only be of interest to clinical and basic science researchers and teachers in the field of maternal substance abuse but also to individuals in psychology social work cellular and molecular biolgoy embryology neuroscience pharmacology and in clinical professions such as pediatrics neonatology and obstetrics The breadth of topics covered includes alcohol cocaine opiates nicotine benzodiazepines marijuana and the role of stress and hormones Emphasis is placed on the relationship of the effects of substance abuse on neurotrophic factors and receptors Shows how abused substances act directly or indirectly to mimic or influence the action of neurotrophic factors Explains that the transient expression of peptides neurotransmitters and

receptors can be markedly disturbed by drugs Demonstrates that animal and tissue culture studies are consistent with clinical observations and important in understanding and ameliorating adverse actions of drugs in early life

Receptors in the Developing Nervous System: Neurotransmitters Ian S. Zagon, Patricia J. McLaughlin, 1993 Together the two volumes of this book provide a comprehensive review of receptors in the developing nervous system placing basic and clinical information into perspective and pointing to possible areas for future research The authors take a contemporary approach emphasizing information derived from the application of cell and molecular biology

Receptors in the Developing Nervous System Zagon, McLaughlin, 2013-01-05 Receptors for cell hormones growth factors Fourth alterations in the development of and neurotransmitters are involved in the neural receptors may have profound implications for the structure and function of the of biological processes The development of organism As much as possible the receptor has distinct spatial and temporal functions of disrupting the orchestration of neural arrangements and alterations in this receptor development in the nervous system pattern during embryogenesis can have significant consequences for the well being of the we are just beginning to learn about some fetus infant child and adult The developing receptors and the authors may not be in a nervous system is particularly dependent on position to discuss the consequences of receptor receptors because its period of structural and functional organization extends through both In designing these two volumes we have prenatal and postnatal phases Moreover asked major figures in each field to review the receptors are a key element in neural literature to apprise the audience of their communication in both the developing and adult latest findings and to provide a perspective on organism so that the ontogeny of receptors is the role of receptors in the developing nervous system crucial in determining the myriad connections system These books are intended to summarize the circuitry of the nervous system

The Neurobiology of Opiates Ronald P. Hammer, Jr., 1992-11-24 This collection of reports by eminent researchers provides a complete description of the effects of opiates on the central nervous system of developing and adult animals The work is useful to investigators interested in opiate neurobiology and clinicians seeking to understand opiate abuse The Neurobiology of Opiates is organized into sections which describe the wide diversity of opiate actions from cellular and molecular to developmental and behavioral Normal functions of endogenous opioid peptides and functional effects of exogenous opiate exposure are examined using the latest in vivo and in vitro methods Particular emphasis is placed on the physiological and pharmacological effects of opiate dependence and withdrawal in addition to the mechanism of opiate reinforcement and molecular mechanisms of opiate regulation Opiate actions on the developing brain and in the hypothalamo-pituitary-adrenal axis are also discussed This comprehensive text provides readers with the latest results and challenges them with new directions for opiate research

Brain Development Michael W. Miller, 2006-04-06 This is the first book about both normal development of the nervous system and how early exposure to alcohol and nicotine interferes with this development The developing nervous system is

highly dynamic and vulnerable to genetic and epigenetic factors that can be additive or synergistic Disruption of normal brain development leads to an array of developmental disorders One of the most common of these is mental retardation the prime cause of which is prenatal exposure to alcohol As chapters in this book show alcohol has direct effects on the developing neural system and it affects genetic regulation Another common neurotoxin is nicotine and it is discussed in this book for three reasons 1 the number of adolescents who smoke cigarettes is rising in some populations 2 prenatal exposure to nicotine affects neurotransmitter systems that are critical for normal brain development and cognition and 3 prenatal exposure to nicotine is often accompanied by prenatal exposure to alcohol LThe mature brain is the culmination of an orderly sequence of the basic ontogenetic processes cell proliferation migration differentiation and death Neural stem cells and progenitors proliferate in discrete sites then young neurons migrate long distances to their residences where they form neural networks During this sequence many immature cells die presumably eliminating unsuitable or non competitive cells Each process is regulated by genetic and environmental factors When this regulation goes awry a dysmorphic and dysfunctional brain results Though this can be tragic in clinical settings in experimental contexts it provides keen insight into normal brain development LThe book is divided into three parts The first describes neural ontogeny in the normal brain The second and third deal with the consequences of early exposure to alcohol and nicotine Though there are similarities in the effects of these two toxins there are also intriguing differences The commonalities reflect the plasticity and resilience of the developing brain while the differences point to the targeted effects of the two toxins Exploring these effects brings a richer appreciation of brain development The book will be of interest to neuroscientists developmental biologists teratologists pharmacologists toxicologists neurologists neuropsychologists and to their students and trainees

Receptors in the Developing Nervous System Ian S. Zagon,1993-11-15 This book should be of interest to developmental biologists pharmacologists clinical researchers neuroscientists neurologists

The Origin and Development of the Nervous System Charles Manning Child,1921

Handbook of Developmental Neurotoxicology William Slikker Jr.,Merle G. Paule,Cheng Wang,2018-01-04 Handbook of Developmental Neurotoxicology Second Edition provides a comprehensive view of the fundamental aspects of neurodevelopment the pathways and agents that affect them relevant clinical syndromes and risk assessment procedures for developmental neurotoxicants The editors and chapter authors are internationally recognized experts whose collaboration heralds a remarkable advance in the field bridging developmental neuroscience with the principles of neurotoxicology The book features eight new chapters with newly recruited authors making it an essential text for students and professionals in toxicology neurotoxicology developmental biology pharmacology and neuroscience Presents a comprehensive up to date resource on developmental neurotoxicology with updated chapters from the first edition Contains new chapters that focus on subjects recent to the field Includes well illustrated material with diagrams charts and tables Contains compelling case studies and chapters written by world experts

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