

Sensory Neurons

Diversity, Development, and Plasticity

SHERYL A. SCOTT

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Sensory Neurons Diversity Development And Plasticity

D.H. Wang



Sensory Neurons Diversity Development And Plasticity:

Sensory Neurons Sheryl A. Scott,1992 Vertebrate sensory neurons occupy a unique place in the nervous system conveying information from the periphery to the CNS While sensory physiologists have long recognized differences in response properties among cells in dorsal root and cranial ganglia the full extent of heterogeneity among these neurons has only recently become apparent Phenotypic diversity is the underlying theme of this unique work which summarizes our current understanding of the individual characteristics and development of sensory neurons The chapters are arranged in three cohesive sections The first describes heterogeneity in the function biochemical make up ion channels membrane properties and central projection patterns of dorsal root ganglion neurons The second section discusses the development of sensory neurons covering such topics as the origins of dorsal root and cranial ganglia adhesive interactions involved in axon outgrowth trophic dependence of sensory neurons and the development of the physiological properties and central and peripheral connections of dorsal root ganglion neurons The last section explains regeneration and plasticity of mature neurons including sprouting of skin sensory axons plasticity in central terminations axotomy and regeneration and the continuing role of neurotrophic factors in adult neurons Cellular Mechanisms of Sensory Processing Laszlo

Urban,2013-06-29 The research field of somatosensory processing in mammals has experienced revolutionary changes in recent years Accumulation of basic and clinical data has greatly accelerated and new phenomena have emerged With the aid of new refined methods molecular and cellular changes have been described underlying the signal transduction transmission between the internal external environment and the central nervous system have been described The discovery of the interaction between the nervous and the immune system has for example changed our view on the development of inflammatory diseases while the cloning of genes encoding different trophic factors has boosted studies revealing profound changes in the regeneration of neurons and induction of changes in phenotype The study of the pre and postsynaptic modulation of transmitter release and the examination of the combined effects of amino acid and peptide transmitters has become recently possible by using cultured cell lines and in vitro techniques Although it is in embryonic state computational properties of single DRG cells under normal and pathological conditions are being investigated Results soon or later will have a great impact on pain research and consequently ultimately in clinical pain management This brief introduction indicates how our knowledge of the somatosensory system has increased dramatically recently However many investigators cultivate only a very specific field in the growing area of somatosensory research and find it difficult to integrate a more universal knowledge of their work Molecular and Cellular Approaches to Neural Development W. Maxwell Cowan,Thomas M. Jessell,Stephen Lawrence Zipursky,1997 Comprehensive up to date and authoritative this volume covers all the recent advances in understanding the early events of neural development at the molecular and cellular levels The authors detail the applications of molecular genetic methods to the study of neural induction neuronal phenotypes and processes and the

formation of specific patterns of connections They analyze the new information generated through modern techniques for identifying cloning deleting and introducing specific genes for labeling neuronal or glial precursors and for imaging individual neurons or parts of neurons Other chapters focus on the increasing use of a variety of model organisms fruit flies nematode worms zebra fish xenopus frogs chicks and mice The improved conservation of DNA and protein sequences and the availability of gene and protein databases have made it possible to rapidly identify gene homologues in organisms sometimes separated by hundreds of millions of years of evolution This volume features several chapters co authored by investigators one of whom works on vertebrates and the other on invertebrates They demonstrate clearly that although the nervous systems of a fruit fly and a mouse for example are quite different in appearance and organization many of the same molecular players and cellular processes are involved in their assembly **Molecular and Cellular Approaches to Neural Development** will be of great practical interest to researchers graduate students and post doctoral fellows in developmental cell and molecular biology genetics and neuroscience **Sensing with Ion Channels** Boris Martinac, 2007-10-30 This is the first book that is not exclusively focused on ion channels functioning in sensory mechanisms that are characteristic of animals and humans but also describes the role of ion channels in signal transduction mechanisms found in microbial cells and plants It summarizes comprehensively the progress that has been made in studies of ion channels and their role in sensory physiology

Neuropeptides in the Spinal Cord F. Nyberg, Z. Wiesenfeld-Hallin, H.S. Sharma, 1995-10-30 This is the first book devoted exclusively to examining the role of neuropeptides in the spinal cord Great progress has been made recently in our understanding of the role of neuropeptides in neurotransmission New tools have been developed to help study the function of endogenous neuropeptides in health and disease Because the general organization of the spinal cord is well conserved among species and neuropeptides appear to have a major role in spinal neurotransmission this book is a timely compendium of recent research in this field The volume will help to stimulate further research in the field of neuropeptides which will lead to better understanding of this role in health and disease

Molecular Sensors for Cardiovascular Homeostasis D.H. Wang, 2007-08-17 Biological homeostasis is maintained via intact function of an array of molecules detecting changes of microenvironments inside and outside of the biological system These molecules including cell membrane proteins and ion channels are intimately involved in a variety of sensory pathways and respond to environmental stimuli including altered temperature pH mechanical and osmotic stress intra and extracellular messengers as well as changes in energy consumption The book reveals the state of the science of several newly discovered ion channel families and their role in the pathogenesis of cardiovascular diseases This work offers comprehensive and up to date information for a deeper understanding of the relationship between macro and micro environments ion channels and pathophysiological responses and for developing novel therapies for treating devastating cardiovascular illnesses Culturing Nerve Cells Gary Banker, Kimberly Goslin, 1998 A do it yourself manual for culturing nerve cells complete with recipes and protocols **Neural Mechanisms of**

Cardiovascular Regulation Nae J. Dun, Benedito H. Machado, Paul M. Pilowsky, 2011-06-27 Neural Mechanisms of Cardiovascular Regulation responds to current questions about how neurons in the central and peripheral nervous systems regulate the cardiovascular system. It includes a series of thoughtful reviews that are intended to provoke and illuminate the reader with the intention of revealing some of the ideas that current practitioners in the field of cardiovascular research are using to generate their current studies.

Neurogenic Inflammation Pierangelo Geppetti, Peter Holzer, 1996-03-22 Take advantage of this unique book, the first single volume resource to explore all important aspects of neurogenic inflammation. An unrivaled compilation of up to date information, Neurogenic Inflammation contains chapters written by recognized authorities in their areas of expertise. It covers the basic mechanisms and the pathophysiological implications of neurogenic inflammatory processes and points to novel therapeutic strategies in the field of inflammatory and related diseases. The book highlights the many systems and mechanisms involved in neurogenic inflammation, including vasodilatation, plasma extravasation, leukocyte adhesion, smooth muscle contraction, exocrine gland secretion, and recruitment of inflammatory cells. The authors discuss the contribution of neurogenic inflammation to human diseases such as migraine, asthma, arthritis, and inflammatory bowel disease, linked to the ubiquitous distribution of sensory nerves to organs and tissues at both the somatic and visceral level. Neurogenic Inflammation is the clear choice for a one step authoritative guide to the latest developments in this dynamic field.

Neurotrophins and the Neural Crest Maya Sieber-Blum, 1998-06-29 The target of much current research, the neural crest is a transitory tissue of the vertebrate embryo that gives rise to many diverse structures in the adult organism, including the autonomic nervous system, the enteric nervous system, and most primary sensory ganglia, among other cell types and tissues. Reflecting recent investigations, Neurotrophins and the Neural Crest is dedicated to the roles neurotrophins play in neural crest cell differentiation and in the survival of neural crest derivatives. This timely book correlates in vitro data with results obtained from knock out mice with targeted neurotrophin or receptor deletions, with the goal of determining the fidelity and usefulness of various experimental culture systems. It also covers embryonic expression patterns and functions of neurotrophins and their receptors. Chapters are organized to begin with neural crest derived tissues as sources for experimental material, including sensory neurons, sympathetic neurons, enteric neurons, melanocytes, and calcitonin producing cells from the thyroid, and concludes with discussions of the neural crest cells. A broad range of researchers and scientists involved in growth factors, neuroscience, developmental and cell biology, embryology, and many other fields will find that Neurotrophins and the Neural Crest targets this fast moving area of research completely and concisely.

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