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The Spinal Cord *2009-11-27*

many hundreds of thousands suffer spinal cord injuries leading to loss of sensation and motor function in the body below the point of injury spinal cord research has made some significant strides towards new treatment methods and is a focus of many laboratories worldwide in addition research on the involvement of the spinal cord in pain and the abilities of nervous tissue in the spine to regenerate has increasingly been on the forefront of biomedical research in the past years the spinal cord a collaboration with the christopher and dana reeve foundation is the first comprehensive book on the anatomy of the mammalian spinal cord tens of thousands of articles and dozens of books are published on this subject each year and a great deal of experimental work has been carried out on the rat spinal cord despite this there is no comprehensive and authoritative atlas of the mammalian spinal cord almost all of the fine details of spinal cord anatomy must be searched for in journal articles on particular subjects this book addresses this need by providing both a comprehensive reference on the mammalian spinal cord and a comparative atlas of both rat and mouse spinal cords in one convenient source the book provides a descriptive survey of the details of mammalian spinal cord anatomy focusing on the rat with many illustrations from the leading experts in the field and atlases of the rat and the mouse spinal cord the rat and mouse spinal cord atlas chapters include photographs of nissl stained transverse sections from each of the spinal cord segments obtained from a single unfixed spinal cord detailed diagrams of each of the spinal cord segments pictured delineating the laminae of rexed and all other significant neuronal groupings at each level and photographs of additional sections displaying markers such as acetylcholinesterase ache calbindin calretinin choline acetlytransferase neurofilament protein smi 32 enkephalin calcitonin gene related peptide cgrp and neuronal nuclear protein neun the text provides a detailed account of the anatomy of the mammalian spinal cord and surrounding musculoskeletal elements the major topics addressed are development of the spinal cord the gross anatomy of the spinal cord and its meninges spinal nerves nerve roots and dorsal root ganglia the vertebral column vertebral joints and vertebral muscles blood supply of the spinal cord cytoarchitecture and chemoarchitecture of the spinal gray matter musculotopic anatomy of motoneuron groups tracts connecting the brain and spinal cord spinospinal pathways sympathetic and parasympathetic elements in the spinal cord neuronal groups and pathways that control micturition the anatomy of spinal cord injury in experimental animals the atlas of the rat and mouse spinal cord has the following features photographs of nissl stained transverse sections from each of 34 spinal segments for the rat and mouse detailed diagrams of each of the 34 spinal segments for rat and mouse delineating the laminae of rexed and all other significant neuronal groupings at each level alongside each of the 34 nissl stained segments there are additional sections displaying markers such as acetylcholinesterase calbindin calretinin choline acetlytransferase neurofilament protein smi 32 and neuronal nuclear protein neun all the major motoneuron clusters are identified in relation to the individual muscles or muscle groups they supply

Clinical Anatomy of the Spine, Spinal Cord, and ANS - E-Book *2017-04-05*

this one of a kind text describes the specific anatomy and neuromusculoskeletal relationships of the human spine with special emphasis on structures affected by manual spinal techniques a comprehensive review of the literature explores current research of spinal anatomy and neuroanatomy bringing practical applications to basic science a full chapter on surface anatomy includes tables for identifying vertebral levels of deeper anatomic structures designed to assist with physical diagnosis and treatment of pathologies of the spine as well as evaluation of mri and ct scans high quality full color illustrations show fine anatomic detail red lines in the margins draw attention to items of clinical relevance clearly relating anatomy to clinical care spinal dissection photographs as well as mris and cts reinforce important anatomy concepts in a clinical context revisions to all chapters reflect an extensive review of current literature new chapter on the pediatric spine discusses the unique anatomic

changes that take place in the spine from birth through adulthood as well as important clinical ramifications over 170 additional illustrations and photos enhance and support the new information covered in this edition

Spinal Cord Medicine, Second Edition *2010-03-19*

a doody s core title 2012 the thoroughly revised second edition of this authoritative reference continues to define the standard of care for the field of spinal cord medicine encompassing all of the diseases and disorders that may a ect the proper functioning of the spinal cord or spinal nerves this comprehensive volume provides a state of the art review of the principles of care and best practices for restoring function and quality of life to patients with spinal cord injuries expert contributors from multiple disciplines cover topics ranging from acute medical and surgical management of specific problems to cutting edge research bladder bowel and sexual dysfunction neurologic and musculoskeletal issues advanced rehabilitation techniques and technologies functional outcomes and psychosocial care while comprehensive in scope spinal cord medicine offers practical guidance for physicians and other health care professionals involved in the management of individuals with sci multiple sclerosis and other spinal cord disorders the second edition has been completely updated to fully reflect current science and practice each section has been re ordered to better present information and the second edition brings in many new authors and topics more diagrams illustrations and tables to solidify concepts and contains 18 entirely new chapters spinal cord medicine principles and practice second edition reflects the breadth and depth of this multi faceted specialty involving over 150 authors from more than 20 fields of medicine it is a trusted reference for anyone who works with spinal cord patients and strives to deliver superior clinical care and improve outcomes

The Spinal Cord and Its Reaction to Traumatic Injury *1980*

explores how the spinal cord and nerves help our bodies function and explains the structure of the spinal cord and nerves

Spinal Cord and Nerves *2003*

this one of a kind text describes the specific anatomy and neuromusculoskeletal relationships of the human spine with special emphasis on structures affected by manual spinal techniques a comprehensive review of the literature explores current research of spinal anatomy and neuroanatomy bringing practical applications to basic science a full chapter on surface anatomy includes tables for identifying vertebral levels of deeper anatomic structures designed to assist with physical diagnosis and treatment of pathologies of the spine as well as evaluation of mri and ct scans high quality full color illustrations show fine anatomic detail red lines in the margins draw attention to items of clinical relevance clearly relating anatomy to clinical care spinal dissection photographs as well as mris and cts reinforce important anatomy concepts in a clinical context revisions to all chapters reflect an extensive review of current literature new chapter on the pediatric spine discusses the unique anatomic changes that take place in the spine from birth through adulthood as well as important clinical ramifications over 170 additional illustrations and photos enhance and support the new information covered in this edition

The Spinal Cord and Brain *1895*

diseases of the spine and spinal cord reviews the full spectrum of disorders affecting this region including primary spinal tumors and metastases infection degenerative diseases and trauma presenting an inter disciplinary perspective the book includes up to date information on therapy including neurosurgical new information on developmental disorders of the spine and a definitive chapter on trauma including information on biomechanics a separate chapter on pain syndromes also is included

Diseases of the Spinal Cord and Its Membranes ... 1858

there exists a wealth of information about the development of the spinal cord in journal articles and monographs yet this beautifully illustrated work is the first book devoted to this important topic because the developing human spinal cord cannot be subjected to experimental manipulations the knowledge gained from experimental work in animals is applied here to an interpretation of the time course and mechanisms of spinal cord development in man the book begins with a review of our current understanding of the structure and functions of the spinal cord special reference is made to the phylogeny of the vertebrate spinal cord because the authors interpretation of the development and organization of the human spinal cord is specifically an evolutionary one following a detailed experiment based account of spinal cord development in the rat the development of the human spinal cord is described illustrated and interpreted in separate chapters during three epochs the first trimester the embryonic period the second and third trimesters the fetal period and the first year of postnatal life special attention is paid to such topics as neurons and the growth and myelination of the ascending and descending fiber tracts of the spinal cord the book ends with a correlation of the development of motor behavior with different stages in the morphological development of the human spinal cord during the embryonic fetal and postnatal periods the successive acquisition of voluntary control over different parts of the body during infancy is correlated with the progressive myelination of the corticospinal tract the book contains an extensive review of work on spinal cord organization and development throughout the 20th century the interpretations are based on experimental studies of spinal cord development in the rat carried out by the authors and their associates the histological material on human spinal cord development is the largest ever assembled and reproduced combining the carnegie minot and yakovlev collections the collected material which varies in quality and some of it has begun to fade has been digitized and electronically reprocessed for improved reproduction discrete components of the spinal cord and new developments are highlighted by color coding typically on one side only leaving the contralateral side untouched to allow the reader to use his own interpretation summary graphs are presented many in color to convey important structural relationships developmental events or theories the authors revive a few forgotten theories and offer several new ones regarding the development and organization of the human spinal cord development of the human spinal cord will be of interest to developmental biologists neuroscientists embryologists molecular biologists those working on stem cell research pediatric neurologists pathologists child and developmental psychologists and their students and trainees

Basic and Clinical Anatomy of the Spine, Spinal Cord, and ANS - E-Book *2005-05-25*

explains how the spinal cord and nerves function and discusses illnesses and injuries that can affect the nervous system and spinal cord

Diseases of the Spine and Spinal Cord *2000-01-13*

presents authorataive coverage of state of the art techniques for diagnosing and managing tumors of the spine and spinal cord covers fundamentals of spinal cord anatomy and the pathology of spinal tumors to evaluation diagnosis and treatment techniques for specific spinal tumors

Development of the Human Spinal Cord *2001*

this comprehensive and practical reference is the perfect resource for the medical specialist treating persons with spinal cord injuries the book provides detail about all aspects of spinal cord injury and disease the initial seven chapters present the history anatomy imaging epidemiology and general acute management of spinal cord injury the next eleven chapters deal with medical aspects of spinal cord damage such as pulmonary management and the neurogenic bladder chapters on rehabilitation are followed by nine chapters dealing with diseases that cause non traumatic spinal cord injury a comprehensive imaging chapter is included with 30 figures which provide the reader with an excellent resource to understand the complex issues of imaging the spine and spinal cord

Spinal Cord And Nerves *2003-03-01*

the mammalian spinal cord provides a comprehensive account of the anatomy and histology of the spinal cord the text covers the cytoarchitecture chemoarchitecture motor neuron distribution long tracts autonomic outflow and gene expression in the spinal cord a feature of the book is the inclusion of segment by segment atlases of the spinal cords of rat mouse newborn mouse marmoset rhesus monkey and human this book is an essential reference for researchers studying the spinal cord includes full color photographic images of nissl stained sections from every spinal cord segment in each of two rodent and three primate species over 160 nissl plates contains comprehensively labeled diagrams to accompany each nissl stained section over 160 diagrams provides more than 500 photographic images of sections stained for ache chat parvalbumin nadph diaphorase calretinin or other markers to supplement the nissl stained images

Spinal Cord and Spinal Column Tumors 2006

this book describes and illustrates an approach to surgery for spinal cord tumors that is based on a refined concept of anatomic compartmentalization the aim of this approach is to enable maximum preservation of spinal cord function through confinement of the surgical work to the involved compartment or compartments importantly this involvement differs according to tumor type and the classification favored by the author takes this fully into account after introductory chapters on epidemiology and pathology the anatomy of the spinal cord relevant to surgery for spinal cord tumors is discussed in detail and the proposed classification is clearly explained the surgical approach to each of the identified anatomic compartments is then described with attention to the roles of intraoperative mapping techniques diffusion tensor imaging and electrophysiologic studies in ensuring that spinal cord functions are spared examples of the author s experience when applying the proposed approach are presented the book is meant for neurosurgeons at all levels of experience

Spinal Cord Medicine *2011-12-07*

during the last decades research on spinal cord has attracted a great deal of attention because of problems such as sensory motor and autonomic dysfunctions associated with traumatic and other injuries recording of spinal cord evoked potentials is one of the most promising approaches to understand the spinal cord function however the details of the evoked potentials and their significance in various pathological conditions are not yet fully characterized this book summarizes new findings in the field of electrophysiology and relates this knowledge to pathology and regeneration research it is the first one which deals in great detail with various ways to monitor spinal cord function in experimental and clinical situations it provides an up to date knowledge regarding spinal cord bioelectrical activity and its modification with pharmacological agents and covers new aspects of regeneration studies particularly the role of myelin associated inhibitory molecules a section is devoted to clinical studies dealing with electrical activity pathology and current therapeutic measures this volume will be useful both to basic and clinical neuroscientists engaged in the field of neurology neurophysiology neurochemistry neurosurgery neuropathology and related disciplines in order to understand basic functions of the spinal cord and to stimulate further research in this rapidly advancing field

The Mammalian Spinal Cord *2021-12-22*

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Surgery of Spinal Cord Tumors Based on Anatomy *2021-01-20*

784 high quality illustrations including 369 in brilliant color this text covers the state of the art techniques for diagnosing and managing tumors of the spine and spinal cord from the fundamentals of spinal cord anatomy and the pathology of spinal tumors to the evaluation diagnosis and treatment techniques for specific spinal tumors this is the only comprehensive text devoted to managing tumors both surgically and non surgically you ll find the latest information on surgical approaches for resection reconstruction decompression and internal stabilization for tumors of the spine spinal cord and peripheral nerves the book also covers such treatments as systemic and intrathecal chemotherapy embolization techniques external beam radiation therapy brachytherapy and stereotactic radiosurgery special features more than 700 high quality illustrations including 369 in brilliant four color illuminate concepts in pathology and surgical technique full review of the basic science of tumors of the spinal cord and nerves aids the comprehension of pathology and indications for treatment step by step instruction guides the clinician through operative approaches including

decompression of tumors en bloc resection of primary spinal tumors reconstruction of the spine spinal fixation and more discussion of the current algorithm techniques to manage metastatic spinal disease this book will benefit established neurosurgeons orthopedic surgeons and residents requiring a complete text on current techniques in managing tumors of the spine and spinal column

Spinal Cord Monitoring *2012-12-06*

focusing on the main physiological systems of the body each title in this series closely examines a specific system or set of organs its function its role in the health of the individual and its relationship to other organs or systems

The Spinal Cord and Brain *2016-05-24*

this clinically focused book aims to cover for the first time all of the neurological aspects relevant to the diagnosis and treatment of spinal cord disease furthermore innovative neurorestorative therapeutic strategies aiming for repair of the damaged spinal cord and or reorganization of the remaining nervous system with significant potential for translation into clinical routine are presented the book covers a comprehensive list of topics including epidemiology neuroanatomy etiology of compressive and non compressive spinal cord injury imaging neurophysiology neurological sequelae and complications with emphasis on dysfunction of the autonomic nervous system both clinically established and preclinical therapies are discussed in detail the book is suited for trainees and practicing clinicians including neurologists spine surgeons rehabilitation specialists neuroradiologists and occupational physical therapists it will also be of value to neuroscientists involved in research into spinal cord disease

Spinal Cord and Spinal Column Tumors 2011-01-01

as a core part of the central nervous system the spinal cord has a distinctive role in the etiology and exacerbation of common and less common neurologic disorders this issue of neurologic clinics will look at the spinal cord s involvement in disorders arising generally in the cns as well as disorders based within the cord itself articles include spinal cord a review of functional neuroanatomy infections of spinal cord multiple sclerosis and spinal cord transverse myelitis neuromyelitis optica vascular disorders of spinal cord spine and spinal cord trauma imaging of spinal cord general principles toxic nutritional and metabolic deficiencies of spinal cord spinal cord motor neuron diseases spinal cord tumors new views and future directions spinal cord and spasticity a mechanistic view cervical spondylosis and stenosis autonomic nervous system disorders and spinal cord stiff person syndrome what is new sleep disorders in patients with spinal cord injury

Nerves and Spinal Cord *2004-06-16*

an estimated 11 000 spinal cord injuries occur each year in the united states and more than 200 000 americans suffer from maladies associated with spinal cord injury

this includes paralysis bowel and bladder dysfunction sexual dysfunction respiratory impairment temperature regulation problems and chronic pain during the last two decades longstanding beliefs about the inability of the adult central nervous system to heal itself have been eroded by the flood of new information from research in the neurosciences and related fields however there are still no cures and the challenge of restoring function in the wake of spinal cord injuries remains extremely complex spinal cord injury examines the future directions for research with the goal to accelerate the development of cures for spinal cord injuries while many of the recommendations are framed within the context of the specific needs articulated by the new york spinal cord injury research board the institute of medicine s panel of experts looked very broadly at research priorities relating to future directions for the field in general and make recommendations to strengthen and coordinate the existing infrastructure funders at federal and state agencies academic organizations pharmaceutical and device companies and non profit organizations will all find this book to be an essential resource as they examine their opportunities

Atlases of the Spinal Cord and Brainstem and the Forebrain *1969*

this book provides state of the art in depth knowledge of spinal cord tumor surgery after an introduction to the history and etiology of spinal cord tumor treatment the molecular biology cytogenetics and pathology of this group of tumors is discussed the pathological anatomy of spinal cord tumors is described and the book focuses in depth on their diagnosis and the surgical approaches that can be used in their treatment microsurgery resection techniques auxiliary treatment options prognosis and outcomes of spinal cord and spinal nerve tumors are all covered in detail spinal cord tumors is aimed at neurosurgeons and may also be of interest to neurologists neuro oncologists radiologists physiatrists pathologists geneticists orthopedic surgeons physical and occupational therapists and other interested scientists

Neurological Aspects of Spinal Cord Injury *2017-06-06*

spinal injury affects about 10 million people annually worldwide impacting on the family unit and causing lifelong disabilities with varied symptoms including paresthesia spasticity loss of motor control and often severe pain cellular molecular physiological and behavioral aspects of spinal cord injury will enhance readers understanding of the biological and psychological effects of spinal cord injury featuring chapters on gene expression metabolic effects and behavior this volume discusses in detail the impact of spinal cord injury to better understand the underlying pathways and processes the book has applicability for neuroscientists neurologists clinicians and anyone working to better understand these injuries summarizes the neuroscience of spinal cord injury including cellular and molecular biology contains chapter abstracts key facts dictionary and summary points to aid in understanding features chapters on signaling and hormonal events includes plasticity and gene expression examines health and stress behaviors after spinal cord injury

Spinal Cord Diseases, An Issue of Neurologic Clinics 2013-02-28

surgical management of spinal cord injury controversies and consensus reviews the controversies pertaining to the emergency diagnostic medical and surgical management of spinal cord injury sci in vitro studies animal models and clinical outcome analyses have all failed to yield incontrovertible guidelines that define the role of surgery in sci as a result there is no consensus regarding the necessity timing nature or approach of surgical intervention in this concise yet comprehensive book

some of the leading authorities in the field scrutinize the scientific data and summarize the foundations of rational treatment paradigms specific topics include the timing of decompressive surgery the adjunctive use of solumedrol management of penetrating injuries radiographic evaluation spinal stabilization pediatric sci surgical management of spinal cord injury is an essential new book for all members of the patient care team involved in spinal cord injury

Diagnosis and Treatment of Surgical Diseases of the Spinal Cord and Its Membranes 1984

the present e book consists of original articles and reviews published in our research topic on injuries to the spinal cord and peripheral nerves and presents a wide array of novel findings and in depth discussions on topics within the field of nerve injury and repair our aim with this research topic is to bring together knowledge spanning from basic laboratory studies to clinical findings and strategies within the field of spinal cord and nerve injury and repair we hope this publication will provide a basis for accelerated knowledge exchange within the field and hopefully a subsequent increase in research efforts and collaborations

Spinal Cord Injury *2005-08-27*

every year between 250 000 and 500 000 people suffer a spinal cord injury with road traffic crashes falls and violence as the three leading causes people with spinal cord injury are two to five times more likely to die prematurely they also have lower rates of school enrollment and economic participation than people without such injuries spinal cord injury has costly consequences for the individual and society but it is preventable survivable and need not preclude good health and social inclusion ensuring an adequate medical and rehabilitation response followed by supportive services and accessible environments can help minimize the disruption to people with spinal cord injury and their families the aims of international perspectives on spinal cord injury are to assemble and summarize information on spinal cord injury in particular the epidemiology services interventions and policies that are relevant together with the lived experience of people with spinal cord injury make recommendations for actions based on this evidence that are consistent with the aspirations for people with disabilities as expressed in the convention on the rights of persons with disabilities

Spinal Cord Tumors *2019-01-24*

unlike some other reproductions of classic texts 1 we have not used ocr optical character recognition as this leads to bad quality books with introduced typos 2 in books where there are images such as portraits maps sketches etc we have endeavoured to keep the quality of these images so they represent accurately the original artefact although occasionally there may be certain imperfections with these old texts we feel they deserve to be made available for future generations to enjoy

The Human Brain and Spinal Cord 1996

this easy to use handbook is designed to assist in the evaluation and management of spinal cord injuries and the diverse related disorders and conditions spinal cord

injuries can cause abnormalities in all body systems due to dysfunction of the somatic motor and sensory systems and damage to the autonomic nerve system the latter gives rise to respiratory and cardiac problems temperature regulation disorders endocrine system disorders and many associated metabolic disorders other potential consequences of spinal cord injuries include pressure injuries and various disabilities and obstacles ranging from physical limitations to social embarrassment this handbook offers extensive guidance on medical management in different scenarios from the acute phase to long term care with a particular focus on information of importance for the solution of clinical problems commonly encountered in daily practice it will be ideal for practitioners in rehabilitation medicine neurosurgery orthopedics neurology and other relevant specialties that deal with patients with spinal cord injuries

Cellular, Molecular, Physiological, and Behavioral Aspects of Spinal Cord Injury 2022-05-10

the spinal cord is a vital part of the central nervous system even a small injury can lead to severe disability in the us there are approximately 230 000 people living with traumatic spinal cord injury sci with over 10 000 more becoming disabled each year learning to live with sci can be a challenge to any individual caregiver or family to improve their ability to cope everyone involved must understand how the body responds to a spinal cord injury and educate themselves about treatment and management issues spinal cord injury the newest title in the critically acclaimed american academy of neurology press quality of life guides is an authoritative and reliable resource for any patient family member or caregiver looking to inform themselves on this topic written in easy to understand language this excellent overview of spinal cord injury and its treatment is essential reading for all patients desiring a better quality of life and for family members and caregivers who need a better understanding of this condition and its effects this informative book explains the anatomy of the spine the results of injury and the treatment and management issues encountered during rehabilitation it contains a glossary with commonly used terms and website resources that can aid in further research in addition it includes current research to help sci patients make informed medical decisions that promote optimum healing spinal cord injury will help patients caregivers and family members cope with sci and enjoy a better quality of life

An Inquiry Concerning the Diseases and Functions of the Brain, the Spinal Cord, and the Nerves *1840*

we shall not and those who come after us must not accept the goals that were not reached yesterday as unsurmountable today or tomorrow we will strive to render the world of the paralyzed on wheels but a transitory stop and settle for nothing short of optimal recovery n eric naftchi in man the process of encephalization culminates in almost complete control of the brain over the lower centers transection of the spinal cord severs the extensions of its nerve fiber tracts running to and from various brain centers although there is some confusion on the meaning of spinal shock it is supposed to last from two to three weeks or longer in man compared with less than a few minutes in the frog this is a testimony to the complexity of the suprasegmental control in higher animals since the brain exerts its control over the internal environment through several monoamine amino acids and peptide neurotransmitters it should not be surprising if the metabolism of these transmitters is found to be drastically altered along with other physical and metabolic dysfunctions which ensue following the spinal cord section in spite of the major strides in rehabilitation of traumatic spinal cord injury our knowledge of the etiology underlying the diverse neurophysiologic derangements remains limited for instance we are just becoming aware of some

of the changes in the milieu interieur

Surgical Management of Spinal Cord Injury 2008-04-15

the studies described here were carried out in the neuroregulation group at the department of physiology of the university of leiden over the last decade this group has in close collaboration with the departments of neurosurgery and urology of the academic hospital of leiden studied development and regeneration of the spinal cord and its peripheral nerves both from a neuroanatomical and a clinical perspective during this period the development of brainstem projections to the spinal cord of the rat was studied with a retrograde tracing technique horseradish peroxidase was injected into the spinal cord of rat fetuses both at different ages and at different levels of the spinal cord these studies aimed to discover regularities in the behavior of descending fiber systems that could yield insight into the logic that the nervous system must employ to structure its connectional pattern during development such insight might then be applied to improve regeneration of the nervous system

Injuries of the spine and spinal cord without apparent mechanical lesion, and nervous shock *1883*

spinal cord injury a guide for patients and families the newest title in the critically acclaimed american academy of neurology press quality of life guides series spinal cord injury is an authoritative and reliable resource for all those looking to educate themselves on the topic of spinal cord injury sci written in easy to understand language the book includes information on how the spinal cord works and what happens when it is injured the benefits of rehabilitation assistive devices that can make life easier a glossary with commonly used terms for communicating with doctors and caregivers website resources that can aid in further research learning to live with a spinal cord injury can be a challenge this book will help people better understand the medical basis for their disabilities the current treatments and rehabilitative methods used to manage spinal cord injuries and the research that points to hope for the future about the authors michael e selzer md phd is a professor in the department of neurology and director of the center for experimental neurorehabilitation training at the university of pennsylvania school of medicine as well as director of rehabilitation research and development in the department of veterans affairs

Karolinska Institutet 200-Year Anniversary Symposium on Injuries to the Spinal Cord and Peripheral Nervous System - An Update on Recent Advances in Regenerative Neuroscience 2017-11-08

Injuries of the Spine and Spinal Cord Without Apparent Mechanical Lesion, and Nervous Shock *1883*

International Perspectives on Spinal Cord Injury *2013*

A Contribution to the Surgery of the Spinal Cord 2012-08

Handbook of Spinal Cord Injuries and Related Disorders *2021-10-22*

Spinal Cord Injury *2008-02-27*

Spinal Cord Injury *2012-12-06*

The Projections to the Spinal Cord of the Rat During Development: A Timetable of Descent *2012-12-06*

Spinal Cord Injury *2010*

The Spinal Cord 1961

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