Neuroimmunology What Do I Do Now

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Neuroimmunology Elsevier Health Sciences
Neuroimmunology, the latest volume in the Contemporary Neurology Series, provides a practical, clinical, and scientific background on a diverse group of neurological disorders in this rapidly expanding field. The book includes chapters on multiple sclerosis and related disorders in adults and children, neuromyelitis optica spectrum disorder, Guillain-Barre Syndrome, chronic inflammatory demyelinating polyradiculoneuropathy and variants, immune-mediated disorders of the neuromuscular junction, inflammatory myopathies, paraneoplastic disorders and autoimmune encephalitities, and neurologic manifestations of systemic immune-mediated diseases. Unique to the work, the authors have included an introductory chapter on the basics of immunology and another on mechanisms of action of therapies used in neuroimmunologic disorders. The clinical chapters cover epidemiology, pathology, pathogenesis, and pathophysiology of the different diseases along with clinical presentation, diagnostic testing, differential diagnosis, and treatment. All are presented in an accessible, practical format, making this volume a valuable resource for physicians and other healthcare providers that will care for persons with neuroimmunologic diseases.

Neuro-Ophthalmology Humana

NeuroimmunologyMultiple Sclerosis, Autoimmune Neurology and Related DiseasesSpringer Nature

Molecular Neurology Yale University Press

This book addresses important issues regarding the interaction between the nervous system, the immune system, and the digestive system. Gut flora has a profound influence on the shaping of the immune response, not only in the gastrointestinal system but also in the nervous system. Fascinatingly, manipulation of intestinal immune responses can be used to modulate neurological disease. Conversely, the nervous system and the psyche have significant effects on the functioning of the gut and liver. After introductory chapters on the neurology, the immunology and microbiology of the gut, the effects of the gut immune system and gut flora and its manipulation on neurological disease are discussed, followed by molecular mimicry and immune tolerance in neuroimmune diseases. Additionally, several chapters deal with gastrointestinal manifestations of neurological diseases. Neuro-Immuno-Gastroenterology is aimed at neurologists, gastroenterologists, and immunologists.

Introduction to Psychoneuroimmunology Springer

Neuroimmunology is a practical and accessible guide for both common and not-so-common neuroimmunological syndromes. Comprised of a collection of thirty short case vignettes, the information is presented in an easily digestible format that consists of a discussion highlighting the topic in question as well as an answer and advice section. This book is the go-to resource for primary care physicians, neurologists and subspecialists who encounter central and peripheral demyelinating diseases, vasculitis, and other immune system related neurological disorders.

Principles of Molecular, Cellular and Medical Neurobiology Academic Press

Why a book on molecular neurology? Molecular neuroscience is advancing at a spectacular rate. As it does so, it is revealing important clues to the pathogenesis and pathophysiology of neurological diseases, and to the therapeutic targets that they present. Medicines work by targeting molecules. The more specific the targeting, the more specific the actions, and the fewer the side effects. Molecular Neurology highlights, for graduate and MD-PhD students, research fellows and research-oriented clinical fellows, and researchers in the neurosciences and other biomedical sciences, the principles underlying molecular medicine as related to neurology. Written by internationally recognized experts, this well-illustrated and well-referenced book presents the most up-to-date principles and disease examples relevant to molecular neurology, and reviews the concepts, strategies, and latest progress in this field. This book will interest anyone studying the molecular basis of neurology, or developing new therapies in neurology. Describes the newest molecular aspects of neurological disorders Provides an introduction to neurological disorders for basic scientists Updates clinicians and clinical researchers on the most recent developments

Translational Neuroimmunology in Multiple Sclerosis Humana

Neuro-ophthalmology is a field of medicine that touches on every subspecialty in neurology, but has an undeserved reputation as a branch of knowledge that is difficult to learn and practice. Many neurologists and ophthalmologists do not receive sufficient exposure to neuro-ophthalmology during their residencies, and are uncomfortable diagnosing and treating patients with neuro-ophthalmic problems. Authored by neuro-ophthalmologists whose careers span three generations in the field, Neuro-Ophthalmology helps clinicians evaluate and manage patients with neuro-ophthalmic problems. This "curb-side consult" approach is divided into five sections: afferent (visual) disorders; efferent (eye movement) disorders; eyelid disorders; pupil disorders; and combination syndromes. Based on the most current scholarly evidence and filled with practical advice, Neuro-Ophthalmology provides the answers to "what do I do now?"

Conn's Translational Neuroscience OUP USA

"In this book, nationally known headache specialists Drs Lawrence Newman and Morris Levin have simulated the "curbside consultation" in a representative set of 33 "mini-cases" of headache and facial pain. The key questions in each are addressed, much as a consultant would do over the phone or in the hallway. This volume is divided into three sections that cover the typical ground for head/face pain consultation: (1) Diagnostic Questions, (2) Treatment Considerations, and (3) Prognostic, Social and Legal Issues. Recommendations are based on the most current evidence available. Diagnostic thinking is presented along the lines of the International Classification of Headache Disorders, second edition (ICHD-II). A list of key clinical points appears at the end of each case discussion, followed by a list of suggested articles or chapters for those interested in doing further reading on the subject. Tables are provided for quick reference in most chapters."--BOOK JACKET.

Neuro-Immuno-Gastroenterology Academic Press

The Encyclopedia of the Neurological Sciences, Second Edition develops from the first edition, covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology, neurosurgery, psychiatry and other related areas of neuroscience. The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field. Entries are designed to be understandable without detailed background knowledge in the subject matter, and cross-referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding. The easy-to-use 'encyclopedic-dictionary' format of the Encyclopedia of the Neurological Sciences, Second Edition features alphabetic entries, extensive cross-referencing, and a thorough index for quick reference. The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers, from undergraduate students to academic researchers. Provides comprehensive coverage of the field of neurological science in over 1,000 entries in 4 volumes "Encyclopedic-dictionary" format provides for concise, readable entries and easy searching Presents complete, up-to-date information on 32 separate areas of neurology Entries are supplemented with extensive cross-referencing, useful references to primary research articles, and an extensive index

Basic Neurochemistry Oxford University Press, USA

What Do I Do Now? Emergency Neurology is designed as a resource for clinicians at all levels of training in all fields of medicine who treat patients with urgent and emergent neurological syndromes. It uses a novel approach focusing on the "clinical impasse" that so often occurs in complex cases, and emphasizes the creative intellectual process clinicians relish. Authored by Morris Levin, along with colleagues from the Dartmouth-Hitchcock Medical Center, this volume presents 32 common urgent/emergent cases divided in to four distinct sections: (1) Diagnostic Questions (ADULT), (2) Treatment Considerations (ADULT), (3) Ethical, Neuropsychiatric and Legal issues and 4) Pediatric issues. The chapters are short and to the point, bearing in mind the increasing work demands on physicians. Thus, the approach in this book, as in the "What Do I Do Now?" series in general, is highly practical, logical and fun.

Emerging Drugs and Targets for Multiple Sclerosis Frontiers Media SA

This is the latest edition of the classic book on the subject of multiple sclerosis. An international group of authors has been involved in updating this edition which features more information on imaging and investigations, and a new chapter on neurobiology and glial development. new edition of the classic book on the subject four new authors, all internationally known authorities from UK, Canada, Germany & Austria much more on imaging and investigations than 2E new chapter on neurobiology and glial development much better illustrated than 2E very well referenced totally rewritten, except for chapters 2 & 3 on symptoms and diagnosis, which have been revised

Neuroimmunology in Clinical Practice Springer

Neuroimmunology, the latest volume in the Contemporary Neurology Series, provides a practical, clinical, and scientific background on a diverse group of neurological disorders in this rapidly expanding field. The book includes chapters on multiple sclerosis and related disorders in adults and children, neuromyelitis optica spectrum disorder, Guillain-Barre Syndrome, chronic inflammatory demyelinating polyradiculoneuropathy and variants, immune-mediated disorders of the neuromuscular junction, inflammatory myopathies, paraneoplastic disorders and autoimmune encephalitities, and neurologic manifestations of systemic immune-mediated diseases. Unique to the work, the authors have included an introductory chapter on the basics of immunology and another on mechanisms of action of therapies used in neuroimmunologic disorders. The clinical chapters cover epidemiology, pathology, pathogenesis, and pathophysiology of the different diseases along with clinical presentation, diagnostic testing, differential diagnosis, and treatment. All are presented in an accessible, practical format, making this volume a valuable resource for physicians and other healthcare providers that will care for persons with neuroimmunologic diseases.

The Neuroimmunological Basis of Behavior and Mental Disorders Springer

This volume explores the recent advances in the study of translational paths in central inflammation and focuses on ongoing pathophysiological processes and the transition between inflammatory stages and progressive states with neurodegeneration. Chapters cover topics such as pathophysiological hallmarks of neuroinflammation from tissue damage to reorganization; connecting studies of mouse models; and investigations of humans with multiple sclerosis. In the Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory. Cutting-edge and practical, Translational Methods for Multiple Sclerosis Research is a valuable resource for researchers who want to learn more about this chronic ad progressive disease, and pave the way for new advancements.

Clinical Neuroimmunology John Wiley & Sons

This is a practical book on neurological therapy. It is aimed at giving concise and updated answers to busy practicing clinicians in the clinic, ward, or emergency department. An evidence-based approach is used, but when there is no evidence or the data are inconclusive, an expert opinion is always given in order to meet the expectations of the reader. All neurological conditions, common and less common, are discussed; each chapter has a similar format, and contains an initial brief introduction on the epidemiology and clinical features of each disease. The therapy is then discussed, including pharmacological and non-pharmacological, with wide use of Tables & Figures. Flowcharts are also included in most of the chapters.

Neuroimmunology Elsevier

The last decade has seen an upsurge of information on the role of immune responses in neurodegenerative disorders. In many of these diseases it is still unclear whether the innate and adaptive responses are pathogenic or play a role in repair, and thus understanding their precise roles is key to controlling these diseases by designing immune-therapeutic approaches. The connection between many neurological diseases is the realisation that the immune and nervous systems are inextricable linked, and that perturbations in this delicate balance are involved in many disorders. This has opened up new avenues for therapeutic approaches to treatment of CNS inflammatory and neurodegenerative disorders. Neuroinflammation and CNS Disorders brings together the very latest information on the interactions between the immune system and central nervous system. The first section of the book highlights the basic concepts in the field whilst the second section, the main body of the book, covers the role of the immune

response in specific disorders of the central nervous system. Neuroinflammation and CNS Disorders will provide an invaluable guide for both researchers and clinicians working in this complex and dynamic field.

Autoimmune Neurological Disease Springer Science & Business Media

Conn’s Translational Neuroscience provides a comprehensive overview reflecting the depth and breadth of the field of translational neuroscience, with input from a distinguished panel of basic and clinical investigators. Progress has continued in understanding the brain at the molecular, anatomic, and physiological levels in the years following the 'Decade of the Brain,' with the results providing insight into the underlying basis of many neurological disease processes. This book alternates scientific and clinical chapters that explain the basic science underlying neurological processes and then relates that science to the understanding of neurological disorders and their treatment. Chapters cover disorders of the spinal cord, neuronal migration, the autonomic nervous system, the limbic system, ocular motility, and the basal ganglia, as well as demyelinating disorders, stroke, dementia and abnormalities of cognition, congenital chromosomal and genetic abnormalities, Parkinson's disease, nerve trauma, peripheral neuropathy, aphasias, sleep disorders, and myasthenia gravis. In addition to concise summaries of the most recent biochemical, physiological, anatomical, and behavioral advances, the chapters summarize current findings on neuronal gene expression and protein synthesis at the molecular level. Authoritative and comprehensive, Conn’s Translational Neuroscience provides a fully up-to-date and readily accessible guide to brain functions at the cellular and molecular level, as well as a clear demonstration of their emerging diagnostic and therapeutic importance. Provides a fully up-to-date and readily accessible guide to brain functions at the cellular and molecular level, while also clearly demonstrating their emerging diagnostic and therapeutic importance Features contributions from leading global basic and clinical investigators in the field Provides a great resource for researchers and practitioners interested in the basic science underlying neurological processes Relates and translates the current science to the understanding of neurological disorders and their treatment

A Primer of Neuroimmunological Disease Academic Press

Includes bibliographical references and index.

Recent Advances in Psychiatry from Psycho-Neuro-Immunology Research: Autoimmunencephalitis, Autoimmune-Encephalopathy, Mild Encephalitis Oxford University Press

This comprehensive, up-to-date book is designed to make recent developments in neuroimmunology accessible to medical professionals in the field. The field of neuroimmunology is complex and rapidly evolving, especially with the current improvements in targeted biologic therapies. This resource concisely offers clear explanations of these scientific and clinical advancements. Divided into five parts, the book begins with an in-depth introduction to neuroimmunology and the principles of immunotherapy. Section two consists of eight chapters devoted to multiple sclerosis, including discussions on the clinical features of the disease as well as symptom management and diagnosis. Subsequent chapters then dive into other central nervous system inflammatory disorders such as neuromyelitis optica, autoimmune encephalopathies, and immunological aspects of cancer. Following this are two chapters that examine distinct aspects of autoimmune disorders of the peripheral nervous system. Finally, the book closes with a review on the neurologic manifestations, diagnostic approaches and treatments of the various systemic rheumatic diseases. Following its successful predecessor edition, Clinical Neuroimmunology: Multiple Sclerosis and Related Disorders, Second Edition is positioned to be an invaluable asset to neurologists, residents and fellows, internists, and general practitioners who treat patients with neurologic disorders and other systemic autoimmune diseases.

Atlas of Clinical Neurology Elsevier Science Health Science Division

"The cerebrospinal vasculature originates at the aortic arch. The right brachiocephalic artery divides into the right common carotid artery and the right subclavian artery. The left common carotid and left subclavian arteries arise directly from the aortic arch. The 2 common carotid arteries bifurcate into the internal and external carotid arteries. The anterior circulation of the brain includes the distal branches from the internal carotid artery, including the anterior cerebral artery and the middle cerebral artery. The vertebral arteries arise from the subclavians and join at the pontomedullary junction, forming the basilar artery. The vertebrobasilar system and distal branches are commonly known as the posterior circulation of the brain"--

Translational Methods for Multiple Sclerosis Research Frontiers Media SA

Pathbreaking research offers new hope for treating brain diseases and injuries and for maintaining brain health even into old age In the past, the brain was considered an autonomous organ, self-contained and completely separate from the body's immune system. But over the past twenty years, neuroimmunologist Michal Schwartz, together with her research team, not only has overturned this misconception but has brought to light revolutionary new understandings of brain health and repair. In this book Schwartz describes her research journey, her experiments, and the triumphs and setbacks that led to the discovery of connections between immune system and brain. Michal Schwartz, with Anat London, also explains the significance of the findings for future treatments of brain disorders and injuries, spinal cord injuries, glaucoma, depression, and other conditions such as brain aging and Alzheimer's and Parkinson's diseases. Scientists, physicians, medical students, and all readers with an interest in brain function and its relationship to the immune system in health and disease will find this book a valuable resource. With general readers in mind, the authors provide a useful primer to explain scientific terms and concepts discussed in the book.

Neuroimmunology Springer

This detailed, practical textbook focuses on immune mediated disorders of the nervous system with particular focus on systemic autoimmune disorders. Divided into three sections, the first discusses the neuroanatomical and pathophysiologic basis of immune mediated disorders of the nervous system. Following this are 25 chapters devoted to individual clinical conditions. To conclude, the final section explains what is known about the mechanisms of immunomodulatory treatments and practical points about monitoring patients on these treatments. Neurorheumatology: A Comprehensive Guide to Immune Mediated Disorders of the Nervous System bridges the gaps among different branches of medicine and is an indispensable resource for rheumatologists and neurologists looking to develop a firm understanding of these dynamic disorders