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Immunopathology and Immunomodulation
Immunization Safety Review
Immune-mediated Neuromuscular Diseases
American Book Publishing Record
Induction of Central Nervous System Disease by the Adaptive Immune Response
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Neurological Diseases Current Topics in Microbiology and
Immunology Neurorheumatology Handbook of Multiple Sclerosis Current Topics in
Anemia

Immunopathology and Immunomodulation

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

Immunization Safety Review

Movement Disorders in Childhood, Second Edition, provides the most up-to-date

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information on the diseases and disorders that affect motor control, an important area of specialization within child neurology. Over the past several decades, advances in genetics, neuroimaging, neurophysiology, and other areas of neuroscience have provided new understanding of the underlying etiologies and mechanisms of these conditions as well as new opportunities for more accurate diagnosis and effective treatment. This new edition builds upon the success of the first edition, with comprehensive scientific and clinical updates of all chapters. In addition, there are new chapters on hereditary spastic paraplegia, quantitative motor assessments, autoimmune disorders, and movement disorders in the developmental neuropsychiatric disorders ADHD, OCD, and autism. Additional materials are provided on the latest in drug treatments, computer based strategies for genetic diagnosis, and helpful videos for phenomenology. Provides the only current reference specifically focused on childhood movement disorders Investigates the underlying etiologies and mechanisms of these disorders Completely revised and updated with new materials and a more disease-oriented approach New coverage of genetics and movement disorders, immunology and movement disorders, and an introduction to the latest quantitative analysis New videos of instructive and unusual childhood movement disorders 2016 BMA Medical Book Awards Highly Commended in Neurology

Immune-mediated Neuromuscular Diseases

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The Research Topic entitled "Emerging Challenges in the Diagnosis and Treatment of Autoimmune Encephalitis" covers recent developments in an rapidly expanding field. We believe that the present Frontiers Research Topic eBook will provide the interested readers with updated knowledge on autoimmune encephalitis including real life clinical experience in diagnostic challenges, differential diagnosis and treatment of patients with autoimmune encephalitis.

American Book Publishing Record

Induction of Central Nervous System Disease by the Adaptive Immune Response

Gerontology

An up-to-date, integrated analysis of the language disturbances associated with brain pathology, this book examines the different types of aphasia combining two clinical approaches: the neurological and the neuropsychological. Although they stress the clinical aspects of aphasia syndromes, they also review assessment techniques, linguistic analyses, problems of aphasia classification, and frequently

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occurring related disorders such as alexia, agraphia, acalculia, and anomia. In addition, they examine commonly encountered speech disorders, neurobehavioral and psychiatric problems commonly associated with aphasia, and the language characteristics of aging and dementia. Rehabilitation and recovery are discussed, and a neural basis for aphasia and related problems is proposed. Neuropsychologists, neurologists, speech therapists, psychiatrists, and occupational therapists will find this book invaluable when dealing with language disorders resulting from brain disease or injury.

Autoantibodies

Written by the foremost researchers in the field, this book gathers together in a single source the many important clinical associations of antiphospholipid antibodies. Antibody-related clotting mechanisms and their relationship to conditions such as recurrent strokes, chorea, multi infarct dementias, a variety of spinal syndromes, Addison's Disease, recurrent miscarriages, and many more are discussed in depth. The importance of these antibodies in 'Primary,' 'Secondary,' and 'Catastrophic' Antiphospholipid Syndrome is highlighted. Each chapter is devoted to a specific internal system and the clinical effects this syndrome has on that system. This authoritative book is an essential addition to medical libraries as well as an invaluable reference for general physicians, internists, rheumatologists, neurologists, cardiologists, nephrologists, endocrinologists, gastroenterologists,

pulmonologists, dermatologists, and obstetricians.

Psychoneuroimmunology

The bestselling Medical-Surgical Nursing, 7th Edition provides a well-rounded and comprehensive approach to nursing care. It covers patient care in various clinical settings by employing a unique levels of care approach, discussing nursing implementation at multiple levels. Special features highlight the content that is most relevant and challenging for today's nursing students, including patient teaching, nutrition, drug therapy, cultural and ethnic disparities, and more. Identifies and discusses all levels of nursing management, including Health Promotion, Acute Intervention, and Ambulatory and Home Care, to prepare the nurse to effectively intervene at various stages of illness. Online podcasts feature audio key points summaries for each chapter highlighting important information. Extensive gerontologic content discusses age-related changes for each body system and alerts the nurse to differences often encountered in older patients. Attractive four-color design and over 1,400 full-color illustrations enhance learning by presenting disease processes and related anatomy and physiology more clearly. About 55 thoroughly updated, comprehensive nursing care plans incorporate current NANDA diagnoses, defining characteristics, expected outcomes, interventions with rationales, evaluation criteria, and more. New chapters on Health Disparities, Stress and Stress Management, Infection and HIV, and Nursing

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Management: Obesity provide a more comprehensive look at the world of medical-surgical nursing. Electronic Resource Summary at chapter openers alert students to additional electronic resources available on companion CD and Evolve. Gender Differences boxes summarize how women and men are affected differently by medical conditions. Drug Alert boxes highlight important considerations applicable to key drugs. A glossary of key terms and definitions contains definitions and page references. NCLEX examination style review questions in each chapter include a focus on prioritization of patient care. All nursing care plans now incorporate NIC and NOC. Companion CD: More than 50 interactive case studies with realistic, 3-D animations to help you visualize disease processes from the inside out A unique Stress-Busting Kit for Nursing Students with strategies for managing your (and your patients') stress A collection of Multimedia Supplements with audio and video clips, plus additional animations NCLEX® examination-style review questions

Top Topics in Child & Adolescent Psychiatry, An Issue of Child and Adolescent Psychiatric Clinics of North America,

The study of the genetic regulation of immune response to natural multideterminant immunogens was undertaken by the method of bidirectional selective breeding of High or Low antibody responder lines of mice. Five Selections are described: Selection I, carried out for agglutinin responsiveness to sheep erythrocytes and

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pigeon erythrocytes alternated in each generation. Selection II, carried out for agglutinin responsiveness to sheep erythrocytes repeated in each generation. Selection III and Selection IV performed respectively for agglutinin response to flagellar or somatic antigens of *Salmonella typhimurium* and *Salmonella oranienburg* alternated in each generation. Selection V, performed for passive agglutinin response to bovine serum albumin and rabbit gamma globulin alternated in each generation. In each Selection the character investigated is polygenic. High and Low responder lines diverge progressively during the selective breeding. The maximal interline separation (selection limit) is reached in the 7th-16th generations. High and Low responder lines at selection limit are considered homozygous for the character submitted to selection. Their variance is therefore only due to environmental effects. The difference in agglutinin titre between High and Low lines is 220-fold in Selection I, 103-fold in Selection II, 90-fold in Selection III, 85-fold in Selection IV and 275-fold in Selection V. The partition of genetic and environmental variances in the foundation populations of the five Selections is established. The proportion of genetic variance is 60% in Selection I; 49% in Selection II; 51% in Selection III; 47% in Selection IV and 76% in Selection V.

Aphasia

This is the first book to address all aspects of the biology of autoantibodies in a

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single volume, including a discussion of immunology, experimental models, clinical aspects, and the use of autoantibodies as probes in molecular and cellular biology. The editor, currently professor at the W.M. Keck Autoimmune Disease Center of The Scripps Research Institute, has assembled an all-star team of authors to report on the latest research, technologies, and applications. Following an introductory chapter, the book goes on to cover such topics as cellular mechanisms of autoantibody production, clinical and diagnostic usefulness in human disease, and animal models used to study the elicitation of autoantibodies. The whole is rounded off with a look at future perspectives. With its comprehensive coverage, this volume will appeal not only to immunologists and clinicians but also to cell and molecular biologists.

Medical Topics in the 21st Century

This book provides a comprehensive review of T cell vaccination which is a topic of significant interest in the field of Immunology. However, its academic value is not limited to basic research into the understanding of autoimmune T cell regulation *in vivo*, for the research is supported by preliminary clinical application. Indeed, T cell vaccinations have been tested in a number of promising clinical trials as a potential treatment for human auto-immune disease. T cell vaccination has thus evolved as one of the most interesting topics of immunology and translational medicine.

The Antiphospholipid Syndrome

Encyclopedia of the Neurological Sciences: Di-L

Emerging Challenges in the Diagnosis and Treatment of Autoimmune Encephalitis

This is another attempt of InTechOpen to continue the dissemination of international knowledge and experience in the field of immunology. The present book includes a number of modern concepts of specialists and experts in the field of immunotherapy, covering the major topics and analyzing the history, current stage, and future ideas of application of modern immunomodulation. It is always a benefit, but also a compliment, to gather a team of internationally distinguished authors and to motivate them to reveal their expertise for the benefit of medical science and health practice. On behalf of all readers, immunologists, immunogeneticists, biologists, oncologists, microbiologists, virologists, hematologists, chemotherapists, health-care experts, as well as students and medical specialists, also on my personal behalf, I would like to extend my gratitude and highest appreciation to InTechOpen for giving me the unique chance to be the

editor of this exclusive book.

Interdisciplinary Topics in Gerontology

Autoimmune Neurology presents the latest information on autoimmune neurologic disease, the immune response to the body where organs run wild, causing the immune system to attack itself. Autoimmunity is a main element in numerous nervous system diseases and can target any structure within the central or peripheral nervous system. Over the past 20 years, significant advances in our understanding of the pathophysiology of autoimmune disorders, including the use of biomarkers has led to new diagnosis and treatment options. Neurologic conditions associated with autoimmune reactions include dementia, neuromuscular disease, epilepsy, sleep disorders, diabetes, and other common neurologic disorders and disease. This current tutorial-reference will be a must-have title for clinical neurologists, research neurologists, neuroscientists, and any medical professional working with autoimmune disease and disorders. Includes comprehensive coverage of autoimmune neurology Details the latest techniques for the study, diagnosis, and treatment of diseases and disorders, including dementia, neuromuscular disease, epilepsy, and sleep disorders Presents a focused reference for clinical practitioners and the clinical neurology and neurology research communities

Adverse Effects of Vaccines

The book covers the immunological and clinical aspects of immune-mediated diseases of the central and peripheral nervous system, excluding multiple sclerosis. It includes paraneoplastic neurological disorders, and discusses the immune mechanisms in the growing number of recognised paraneoplastic conditions. It not only provides an overview of the field but also discusses the possible role of immunity in other neurological disorders such as epilepsy. Chapters are written by scientists and clinicians directly involved in each specific area, who have summarized the current understanding of neuroimmunology, with emphasis on the underlying abnormalities of the immune responses, the different clinical expression of the diseases and the important use of immunotherapies in treatment. Figures and tables are included in each chapter.

Neuroimmune Pharmacology

Explores all areas of neurological sciences with over 1,000 entries on a wide variety of topics in neurology, neurosurgery, psychiatry and the related neuroscience.

Autoantibodies and Autoimmunity

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This book is a continuation of the efforts of InTech to expand the scientific know-how in the field of immunopathology and bring valuable updated information to medical professionals and researchers. It consists of chapters related to various approaches to investigate the unique role of the immune system in response to different clinical disorders. The international team of authors is the bonus of the book, reflecting the rapid development of immunology and new achievements in medical science. We firmly hope that the book will be an excellent manual and guideline for people dealing with biology, microbiology, immunology, virology, pharmacology, general and dental medicine, and health care, from students and postdocs to high-level specialists and university professors.

Novel Approaches to the Treatment of Alzheimer's Disease

In this issue of Child & Adolescent Psychiatric Clinics, consulting editor Dr. Harsh Trivedi has selected topics that continually are at the forefront for child and adolescent psychiatrists. Among the top topics are: Children's Exposure to Violent Video Games and Desensitization to Violence; Neurobiology of Attention Deficit Hyperactivity Disorder; Psychosocial Interventions in Attention Deficit Hyperactivity Disorder; 5. Social Skills Training for Youth with Autism Spectrum Disorders; 6. Complementary and Alternative Medicine Treatments for Children with Autism Spectrum Disorders; and Adolescent Eating Disorders: Definitions, Symptomatology, Epidemiology and Comorbidity. Authors renowned in the

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psychiatric field and the pediatric field provide the physician clinical outcomes and therapeutic management of these disorders.

Movement Disorders

The book Immunopathogenesis and Immune-Based Therapy for Selected Autoimmune Disorders is a synthesis work that discusses two main aspects of autoimmunity: Immunopathogenesis and therapeutic approaches essentially based on the immunotherapies. This book deals with different topics on a number of autoimmune disorders, including type 1 diabetes, autoimmune cardiomyopathy, autoimmunity of gastrointestinal tract, systemic sclerosis, and myasthenia gravis. This book will be useful to clinicians, biologists, researchers, teachers, and students who are interested in immunology and immunopathology.

Clinical Neurology E-Book

The Autoimmune Diseases is composed of 25 chapters dealing with different aspects of some specific autoimmune diseases. The book begins with the elucidation of the genetic predisposition to autoimmune diseases. Subsequent chapters explore numerous kinds of autoimmune diseases. Other chapters describe the antireceptor antibodies and the sensitivity and specificity of

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autoantibody testing. This book is designed to provide a deeper understanding of this increasingly important field of medical science for physicians and investigators involved in the diagnosis, treatment, or research of autoimmune

Autoantibodies

The second edition of Neuroimmune Pharmacology bridges the disciplines of neuroscience, immunology and pharmacology from the molecular to clinical levels with particular thought made to engage new research directives and clinical modalities. Bringing together the foremost field authorities from around the world, Neuroimmune Pharmacology will serve as an invaluable resource for the basic and applied scientists of the current decade and beyond.

Plasma Medicine

This eighth and final report of the Immunization Safety Review Committee examines the hypothesis that vaccines, specifically the measles-mumps-rubella (MMR) vaccine and thimerosal-containing vaccines, are causally associated with autism. The committee reviewed the extant published and unpublished epidemiological studies regarding causality and studies of potential biologic mechanisms by which these immunizations might cause autism. Immunization

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Safety Review: Vaccines and Autism finds that the body of epidemiological evidence favors rejection of a causal relationship between thimerosal-containing vaccines and autism. The book further finds that potential biological mechanisms for vaccine-induced autism that have been generated to date are only theoretical. It recommends a public health response that fully supports an array of vaccine safety activities and recommends that available funding for autism research be channeled to the most promising areas. The book makes additional recommendations regarding surveillance and epidemiological research, clinical studies, and communication related to these vaccine safety concerns.

Immunopathogenesis and Immune-based Therapy for Selected Autoimmune Disorders

The use of animal models is a key aspect of scientific research in numerous fields of medicine. Movement Disorders, Second Edition vigorously examines the important contributions and application of animal models to the understanding of human movement disorders, and serves as an essential resource for basic neuroscientists engaged in movement disorders research. Academic clinicians, translational researchers and basic scientists are brought together to connect experimental findings made in different animal models to the clinical features, pathophysiology and treatment of human movement disorders. The book is divided

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into sections on Parkinson's disease, Huntington's disease, dystonia, tremor, paroxysmal movement disorders, ataxia, myoclonus, restless legs syndrome, drug-induced movement disorders, multiple system atrophy, progressive supranuclear palsy/corticobasal degeneration, and spasticity. This book serves as an essential resource for both clinicians interested in the science being generated with animal models and basic scientists studying the pathogenesis of particular movement disorders. Introduces the scientific foundations for modern movement disorders research Contributing authors are internationally known experts Completely revised with 20% new material Provides a comprehensive discussion of genetics for each type of movement disorder Covers Parkinson's disease, Huntington's disease, dystonia, tremors, and tics

Autoimmune Neurology

Twenty-four essays on major recent advances in the understanding of the genetics, pathophysiology, and immunology of MS including evidence for a viral etiology; evidence for immunopathogenesis; neuroimaging; evoked potentials; and treatment/therapy with monoclonal antibodies, interferon, cyclosporine, corticosteroid, steroids and immunosuppressive drugs, total lymphoid irradiation, plasma exchange and lymphocytapheresis. Annotation(c) 2003 Book News, Inc., Portland, OR (booknews.com)

Selected Topics in Myasthenia Gravis

Plasma can be defined as the extracellular matrix of blood cells. Plasma components, their role in human health risk evaluation, and their functional and clinical analyses are covered in this book. Furthermore, physical plasma-ionized gas is one of the four fundamental states of matter. This homonym has begun to emerge because it can interact with living systems. The physical plasma biomedical applications are reviewed in drug delivery and wound healing medical applications. This approach revolutionizes the therapeutic approaches in medicine and may open up new concepts and clinical applications. The book is an essential source for researchers in the field and provides a platform for different professions.

The Autoimmune Diseases

Please note that this eBook does not include the DVD accompaniment. If you would like to have access to the DVD content, please purchase the print copy of this title. This is a clinical neurology book for students and non neurologists, and for those who teach them. The book covers neuroanatomy, history taking and examination and then proceeds to discuss the clinical features of common problems as well as selected, less common neurological disorders, in a way that will demystify a part of medicine that many find complex and difficult to understand. The book is

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accompanied by a DVD explaining concepts, demonstrating techniques of performing the neurological examination and demonstration of abnormal neurological signs. The first chapter is devoted to neuroanatomy from a clinical viewpoint. The concept of localising problems by likening the nervous system to a map grid with vertical meridians of longitude (the ascending sensory pathways and the descending motor pathway) and horizontal parallels of latitude (cortical signs, brainstem cranial nerves, nerve roots and peripheral nerves) of the nervous system is developed. Subsequent chapters take the reader through the neurological examination and the common neurological presentations from a symptom oriented approach. Chapter 4 contains a very simple method of understanding the brainstem, the "rule of 4". Chapter 6 discusses the approach after the history and examination are completed. The final chapter is an overview of how to approach information gathering and keeping up-to-date using the complex information streams available. widely illustrated with case studies and illustrations key points clinical questions clinical orientation with comprehensive references

Cerebral Small Vessel Disease

Immunologic Mechanisms in Neurologic and Psychiatric

Disease

This book deals with a very common condition, anemia, which might interest not only the physicians but also other healthcare professionals and researchers dealing with anemic patients. The objective of this book was to collect and compile up-to-date information from reputable researchers of different countries of the world to disseminate the latest information about the common types of anemia in some specific physiological and pathological conditions including pathophysiology and the use of algorithms as a tool to minimize the laboratory tests and accurate diagnosis of the underlying cause. In total, there are 13 chapters in this book where the authors shared their research findings and real-life experiences in managing their patients with anemia.

T-cell Vaccination

Autoantibodies was published and presented in November 2006 at the International Congress of Autoimmunity in Sorrento, a small town in Campania, Italy. The Congress also celebrated the 100th anniversary of the first routine test for autoantibodies. An autoantibody is a type of antibody that is produced by the immune system and that fights one or more of a person's own proteins. These autoantibodies cause autoimmune diseases such as lupus erythematosus. The

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authors and editors of this book provide a critical review of autoantibodies and their primary functions. They cite a number of major developments in the field of autoantibodies, including the detection of autoantibodies in which a healthy person is a carrier; the discovery that autoantibodies can be both pathogenic and protective in some cases; and the development of a device that will help monitor and detect a specific autoantibody using a small amount of serum and proteomic arrays. Aside from the pathogenic and protective autoantibodies, the book also discusses irrelevant autoantibodies, as these may be relevant for future research. It also addresses the importance of the autoantibodies in a person's body. Clinical physicians, as well as scientists interested in the significance of autoantibodies in the human body, will find this book relevant. It will also be of interest to those who suffer from an autoimmune disease. * Includes an exhaustive list of autoantibodies not covered by other publications * Short reviews can easily be checked for quick reference information * Both basic and clinical aspects are covered

Medical-surgical Nursing

In 1900, for every 1,000 babies born in the United States, 100 would die before their first birthday, often due to infectious diseases. Today, vaccines exist for many viral and bacterial diseases. The National Childhood Vaccine Injury Act, passed in 1986, was intended to bolster vaccine research and development through the

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federal coordination of vaccine initiatives and to provide relief to vaccine manufacturers facing financial burdens. The legislation also intended to address concerns about the safety of vaccines by instituting a compensation program, setting up a passive surveillance system for vaccine adverse events, and by providing information to consumers. A key component of the legislation required the U.S. Department of Health and Human Services to collaborate with the Institute of Medicine to assess concerns about the safety of vaccines and potential adverse events, especially in children. Adverse Effects of Vaccines reviews the epidemiological, clinical, and biological evidence regarding adverse health events associated with specific vaccines covered by the National Vaccine Injury Compensation Program (VICP), including the varicella zoster vaccine, influenza vaccines, the hepatitis B vaccine, and the human papillomavirus vaccine, among others. For each possible adverse event, the report reviews peer-reviewed primary studies, summarizes their findings, and evaluates the epidemiological, clinical, and biological evidence. It finds that while no vaccine is 100 percent safe, very few adverse events are shown to be caused by vaccines. In addition, the evidence shows that vaccines do not cause several conditions. For example, the MMR vaccine is not associated with autism or childhood diabetes. Also, the DTaP vaccine is not associated with diabetes and the influenza vaccine given as a shot does not exacerbate asthma. Adverse Effects of Vaccines will be of special interest to the National Vaccine Program Office, the VICP, the Centers for Disease Control and Prevention, vaccine safety researchers and manufacturers, parents, caregivers,

and health professionals in the private and public sectors.

Autoimmune Neurology

Over the last years it has become evident that many neurological diseases of the central nervous system (CNS) are induced by a specific adaptive immune response directed against molecules expressed on CNS-resident cells. Well-recognized examples are anti-N-Methyl-D-Aspartate Receptor (NMDAR) encephalitis which is characterized by the presence of antibodies against neuron-expressed NMDAR, or neuromyelitis optica (NMO), induced by antibodies to astrocyte-expressed aquaporin-4. Many more examples exist, and antibodies, and T or/and B cells have increasingly been associated with CNS disease. Often the symptoms of these diseases have not been typically reported to have an immune aetiology. Beside classical neurological symptoms like ataxia, vision disturbance, and motor or sensory symptoms, these can include cognitive disturbances, behavioral abnormalities, or/and epileptic seizures. Although much has been learned regarding the pathophysiology of prototypic examples of these disorders, there are still major gaps in our understanding of their biology. This may be due to the fact that they are rare diseases, and their therapies are still very limited. This research topic includes contributions addressing the analysis of the adaptive immune response driving disease including target antigens, molecular epitope mapping, and factors involved in the disease pathogenesis such as complement activation

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cascades, genetic and genomic regulation, as well as environmental triggers. Diagnostic criteria and methods, and treatment are also discussed. The overall aim of the volume is to review progress in our pathophysiological understanding of immune-mediated CNS disorders in order to advance diagnostic and therapeutic approaches, and ultimately improve outcomes for patients.

Biomarkers in Neurology

Neuromuscular medicine is constantly advancing in terms of accurate diagnosis, pathophysiology, and treatment. Many disorders that have been discovered within this field are either autoimmune or genetic. This publication provides the latest updates of the more common and treatable autoimmune neuromuscular diseases affecting the spinal cord, peripheral nerves, neuromuscular junction and muscles. The authors, renowned experts in the field, offer clinical presentations as well as the best diagnostic and treatment approach to the readers. The chapters are dealing with acute and chronic neuropathies, nonsystemic vasculitic neuropathy, dysimmune neuropathy and autoimmune autonomic ganglionopathy. Further, disorders such as myasthenia gravis, Lambert-Eaton myasthenic syndrome, idiopathic inflammatory myopathies and stiff person syndrome are discussed. Providing an excellent source of up-to-date information, this publication is highly recommended not only to neurologists, but also to internists, rheumatologists, allergists and immunologists.

Movement Disorders in Childhood

Autoimmune Neurology presents the latest information on autoimmune neurologic disease, the immune response to the body where organs run wild, causing the immune system to attack itself. Autoimmunity is a main element in numerous nervous system diseases and can target any structure within the central or peripheral nervous system. Over the past 20 years, significant advances in our understanding of the pathophysiology of autoimmune disorders, including the use of biomarkers has led to new diagnosis and treatment options. Neurologic conditions associated with autoimmune reactions include dementia, neuromuscular disease, epilepsy, sleep disorders, diabetes, and other common neurologic disorders and disease. This current tutorial-reference will be a must-have title for clinical neurologists, research neurologists, neuroscientists, and any medical professional working with autoimmune disease and disorders. Includes comprehensive coverage of autoimmune neurology Details the latest techniques for the study, diagnosis, and treatment of diseases and disorders, including dementia, neuromuscular disease, epilepsy, and sleep disorders Presents a focused reference for clinical practitioners and the clinical neurology and neurology research communities

Immunotherapy

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The first edition of Psychoneuroimmunology collated the information then available that implicated neural and endocrine processes in the modulation of immunity in an attempt to identify and define a new field of study. This edition documents the past ten years of research and provides evidence of behavior-neural-endocrine-immune interactions.

Autoantibodies in Neurological Diseases

Myasthenia gravis is a rare potentially fatal chronic autoimmune disorder. Circulating autoantibodies directed against components of the neuromuscular junction of skeletal muscles, most commonly nicotinic acetylcholine receptor and associated protein in the postsynaptic membrane, block neuromuscular transmission resulting in muscle weakness. This muscle weakness typically worsens with continued activity, improves on rest, and is of variable severity ranging from mild ocular muscle weakness to severe generalized muscle weakness, involving the respiratory muscle with impending respiratory failure. The worldwide prevalence of myasthenia gravis is 100-200 per million population, affecting more than 700,000 people all over the world. The prevalence rate has increased since the 1950s due to improved diagnostic precision and decreased mortality rate.

Current Topics in Microbiology and Immunology

Up-to-date discussion of the etiology, diagnosis, treatment, and prevention of this common cause of stroke and cognitive impairment.

Neurorheumatology

Handbook of Multiple Sclerosis

Alzheimer's disease afflicts up to 1 in 5 people over the age of 65 years and causes untold suffering of the patient and their family. The cause of this disease is unknown; indeed, evidence increasingly suggests that there may be multiple Alzheimer-type syndromes with different etiologies, analogous to different types of psychosis. Currently there are no means to prevent the disease, slow its progress or reverse its neurodegenerative consequences. With few exceptions, clinical trials of a variety of compounds have resulted in patient responses that are disappointing with respect to both the proportion of responders and the magnitude of the responses. Novel approaches to the treatment of Alzheimer's disease are clearly warranted. For this reason, we organized the First Suncoast Workshop on the Neurobiology of Aging in St. Petersburg, Florida, which took place from

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February 26-March 1, 1989. This workshop focused on novel treatments and models for Alzheimer's disease and represented a cooperative venture among academia, government and industry, both in its participants and sponsorship. The Center for the Neurobiology of Aging at the University of Florida, the National Institute on Aging and Taiho Pharmaceutical Corporation in Japan sponsored the workshop in which scientists from the North America, Europe, Japan and other parts of Asia participated.

Current Topics in Anemia

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