

Staphylococci In Human Disease

Epigenetics in Human Disease Immunogenetic Risk Assessment In Human Disease Peroxisomes: Biogenesis, Function, and Role in Human Disease Heat Shock Protein 90 in Human Diseases and Disorders Viruses and Human Disease Fatty Acid-Binding Proteins and Their Roles in Human Health and Disease Animal Models of Human Disease MicroRNA in Human Infectious Diseases Polyphenols: Prevention and Treatment of Human Disease Spontaneous Animal Models of Human Disease Epstein-Barr Virus and Human Disease Omics Technologies for Clinical Diagnosis and Gene Therapy: Medical Applications in Human Genetics Basics in Human Evolution Novel Systems for the Study of Human Disease From Basic Research to Applications Animal Models of Human Disease Solar Radiation, Global Warming and Human Disease Advances in Human Genetics Introduction to Human Disease (book) Human Disorders of PI3K Biology Shiga toxin-producing Escherichia coli in human, cattle and foods. Strategies for detection and control Trygve O. Tollefsbol J. P. Pandey Tsuneo Imanaka Alexzander A. A. Asea Ellen G. Strauss Asim K. Duttaroy Armed Forces Institute of Pathology. Registry of Comparative Pathology Vijay Kumar Prajapati Ronald Ross Watson Edwin J. Andrews P. H. Levine Syeda Marriam Bakhtiar Michael P Muehlenbein OECD Sara Green Steven Magee Harry Harris Agnes G. Loeffler Carrie L. Lucas Nora Lía Padola

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epigenetics is one of the fastest growing fields of sciences illuminating studies of human diseases by looking beyond genetic make up and acknowledging that outside factors play a role in gene expression the goal of this volume is to highlight those diseases or conditions for which we have

advanced knowledge of epigenetic factors such as cancer autoimmune disorders and aging as well as those that are yielding exciting breakthroughs in epigenetics such as diabetes neurobiological disorders and cardiovascular disease where applicable attempts are made to not only detail the role of epigenetics in the etiology progression diagnosis and prognosis of these diseases but also novel epigenetic approaches to the treatment of these diseases chapters are also presented on human imprinting disorders respiratory diseases infectious diseases and gynecological and reproductive diseases since epigenetics plays a major role in the aging process advances in the epigenetics of aging are highly relevant to many age related human diseases therefore this volume closes with chapters on aging epigenetics and breakthroughs that have been made to delay the aging process through epigenetic approaches with its translational focus this book will serve as valuable reference for both basic scientists and clinicians alike comprehensive coverage of fundamental and emergent science and clinical usage side by side coverage of the basis of epigenetic diseases and their treatments evaluation of recent epigenetic clinical breakthroughs

this book provides readers with a comprehensive overview of peroxisomes and their role in human diseases it starts by describing the history of peroxisome research and then examines in detail the current understanding of the biogenesis and function of peroxisomes it then focuses on peroxisomal disorders and the involvement of peroxisomes in cancer and age related diseases discussing in detail the use of model organisms to elucidate the pathogenesis of peroxisomal disorders and the physiological importance of peroxisomal proteins further the book examines diagnostic and therapeutic strategies in peroxisomal disorders as well as significant recent advances lastly it addresses various topics in peroxisome research including the isolation of peroxisomes from mammalian tissues and cells the structural biology of peroxisomal proteins the lipidomics of peroxisomal disorders the value of exome sequencing and neuropsychological testing in x linked adrenoleukodystrophy given its scope the book is a valuable resource for postgraduate students and researchers in the life sciences and clinicians in the fields of internal medicine pediatrics and neurology

the book heat shock protein 90 in human diseases and disorders provides the most comprehensive review on contemporary knowledge on the role of hsp90 using an integrative approach the contributors provide a synopsis of novel mechanisms previously unknown signal transduction pathways to enhance the ease of reading and comprehension this book has been subdivided into various section including section i reviews current progress on our understanding oncogenic aspects of hsp90 section ii focuses on bimolecular aspects of hsp90 section iii emphasizes and hsp90 in natural products development and section iv give the most up to date reviews on clinical aspects of hsp90 key basic and clinical research laboratories from major universities academic medical hospitals biotechnology and pharmaceutical laboratories around the world have contributed chapters that review present research activity and importantly project the field into the future the book is a must read for starters and professionals in the fields of translational medicine clinical research human physiology biotechnology natural products cell

molecular medicine pharmaceutical scientists and researchers involved in drug discovery

this is the first text to examine the connection between virology and human disease it is also the first book to integrate basic virology with pathophysiological conditions by contrast most virology textbooks focus on the molecular biology involved without adequate reference to physiology viruses and human disease is four color throughout and contains clearly labeled figures and tables key features provides a concise overview of animal viruses emphasizing those causing diseases in humans integrates discussion of molecular biology epidemiology and the history of human viruses presents treatment of prions gene therapy and vaccine development illustrated in color by an expert virologist includes world maps depicting the current distribution of existing and newly emerging viruses

fatty acid binding proteins and their roles in human health and disease from basic science to clinical application presents the latest information on the contributions of different fabps in physiology and pathophysiology along with their importance in clinical outcomes the book is divided into six main sections that cover fabp biology and their role in inflammation and diseases such as cardiovascular neurological and liver diseases to fabps and their clinical applications each chapter thoroughly reviews current literature primary research data and clinical cases providing readers with an overview of the latest information in the expanded field of fabps this is an invaluable resource for both researchers and clinicians familiar with and those new to the exciting and everchanging world of fatty acid binding proteins and clinical disorders compiles the most recent and comprehensive findings on fatty acid binding proteins fabps describes the pathophysiology of fabps in various diseases and as therapeutic targets highlights opportunities for improving diagnosis and treatment by encompassing all pathological conditions involving fabps

microrna in human infectious diseases offers a detailed overview of the therapeutic and diagnostic role micrnas can play in the treatment of various infectious diseases beginning with an introduction on micrnas and their mechanisms the book then delves into the therapeutic role of micrnas in various categories of diseases bacterial viral and parasitic a wide range of diseases are explored in these sections including sexually transmitted diseases typhoid tuberculosis dengue fever ebola covid 19 malaria leishmaniasis and lymphatic filariasis the final section of the book covers microrna based system approaches considering aspects such as web based tools available for detecting and predicting microrna targets and the latest technologies for modifying and manipulating micrnas this volume explores microrna across a multitude of conditions and is an ideal reference for those involved in the investigation and development of treatments in this area includes foundational knowledge on micrnas and the fundamental aspects of its biogenesis explores the potential role micrnas can play in therapeutics and diagnostics to treat various infectious diseases including sexually transmitted diseases bacterial diseases viral infections and parasitic diseases features a chapter dedicated to the role of microrna for therapeutics in respiratory viral infections such as covid 19 considers technologies used for manipulating and modifying micrnas in preparation for applications to treat infectious

diseases

polyphenols in prevention and treatment of human disease second edition authoritatively covers evidence of the powerful health benefits of polyphenols touching on cardiovascular disease cancer obesity diabetes and osteoporosis this collection represents the contributions of an international group of experts in polyphenol research who share their expertise in endocrinology public health cardiology pharmacology agriculture and veterinary science researchers from diverse backgrounds will gain insight into how clinical observations and practices can feed back into the research cycle thus allowing them to develop more targeted insights into the mechanisms of disease this reference fills a void in research where nutritionists and alternative therapies may be applicable describes polyphenol modulation of blood flow and oxygenation as a potential mechanism of protection against vascular atherosclerosis describes how polyphenols and antioxidants frequently change immune defenses and actions focuses on the most important areas of research and provides insights into their relationships and translational opportunities

this two volume work gathers together the diverse information presently available on spontaneous animal models of human disease in addition to providing a comprehensive review of existing models the book presents many previous unpublished new models the scope of this work is limited to spontaneous models neoplasia infectious diseases including parasitism and nutritionally induced or other types of experimental models have not been included the sixteen parts of the book are alphabetically arranged according to organ system with over 230 authors contributing to the overall effort in addition to many illustrations the book features an extensive bibliography

since its discovery as the cause of infectious mononucleosis in 1964 the epstein barr virus ebv has been etiologically implicated in an increasing number of human diseases generally considered the first human oncogenic virus because of a number of studies linking it with burkitt s lymphoma and nasopharyngeal carcinoma npc as well as its documented oncogenicity in nonhuman primates ebv has served as a model for identifying subsequent candidate oncogenic viruses and the stimulus for evans revision of the henle koch postulates to accommodate the problems in proving viral oncogenicity in humans research on the role of ebv in human cancer was particularly enhanced a by the pioneering work of werner and gertrude henle and b by the coordinated efforts of the special virus leukemia program and its successors the special virus cancer program and the virus cancer program of the national cancer institute nci initiated by dr frank j rauscher who subsequently became director of the ncr and is now vice president of the american cancer society and expanded by dr john b moloney whose contributions to cancer research were honored at this second international symposium on ebv and associated malignant diseases these nci contract supported programs brought together investigators from all over the world to participate in a joint effort to unravel the mystery of ebv behavior and pathogenicity it was these programs that gave us the opportunity to work with such outstanding people as professor yohei ito to whom this book is dedicated

genetic disorders have been the focus of scientists for a long time the emergence of next

generation sequencing techniques has ushered a new era in genetics and several developments have occurred in human genetics the scientific perspective has also been widened with omics technologies that allow researchers to analyze genetic sequences and their expression products an integrated approach is being used not only for diagnosis but also for disease management and therapeutic purposes this book highlights emerging areas of omics technology and its application in the diagnosis and management of human genetic disorders the book covers three areas of research and implementation 1 diagnosis covering conventional strategies to next generation platforms this section focuses on the role of in silico analysis databases and multi omics of single cell which will help in designing better management strategies 2 disease management and therapeutic interventions this section starts with genetic counselling and progresses to more specific techniques such as pharmacogenomics and personalized medicine gene editing techniques and their applications in gene therapies and regenerative medicine 3 case studies this section discusses the applications and success of all the above mentioned strategies on selected human disorders this book serves as a handy reference for students and academics studying advanced omics techniques in biochemistry and molecular genetics as part of courses in life sciences pharmacology and medicine

basics in human evolution offers a broad view of evolutionary biology and medicine the book is written for a non expert audience providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field from evolutionary theory to cultural evolution this book fills gaps in the readers knowledge from various backgrounds and introduces them to thought leaders in human evolution research offers comprehensive coverage of the wide ranging field of human evolution written for a non expert audience providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field provides expertise from leading minds in the field allows the reader the ability to gain exposure to various topics in one publication

this proceedings brings together scientific papers covering the breadth and significance of model animals used in scientific research and scientific and policy summaries based on workshop discussions

the crucial role of animal models in biomedical research calls for philosophical investigation of how and whether knowledge about human diseases can be gained by studying other species this element delves into the selection and construction of animal models to serve as preclinical substitutes for human patients it explores the multifaceted roles animal models fulfil in translational research and how the boundaries between humans and animals are negotiated in this process the book also covers persistent translational challenges that have sparked debates across scientific philosophical and public arenas regarding the limitations and future of animal models among the are persistent tensions between standardization and variation in medicine as well as between strategies aiming to reduce and recapitulate biological complexity finally the book examines the prospects of replacing animal models with animal free methods the element demonstrates why animal modeling should be of interest to philosophers social scientists and

scientists alike

this second edition book examines the modern development of the earth and the potential impacts on global warming and human disease the destruction of the forests for modern agricultural use appears to have effects that are not fully understood and these are explored radiation deficiency and radiation overloading are investigated to see if they are factors in many illnesses and diseases

introduction to human disease pathophysiology for health professionals sixth edition provides a broad overview of the most common and important human diseases for students pursuing careers in the health professions comprehensive yet accessible it addresses the aspects of disease epidemiology diagnosis and treatment that are essential to clinical practice the sixth edition of this popular text has been thoroughly updated to cover the latest advances in medical knowledge and practice especially with regard to mental health and nutritional disorders it also includes additional clinical information on treatments for diseases designed to facilitate learning this essential reference features new full color photos and illustrations learning objectives and practice questions for review and assessment introduction to human disease pathophysiology for health professions sixth edition will help students gain a solid foundation in disease pathology and medical terminology to help them throughout their medical education key features provides a comprehensive introduction to the essential aspects of human disease covers the most common and important human diseases including mental illnesses facilitates learning with chapter objectives key terms and practice questions includes more than 400 full color illustrations photos and tables new to the sixth edition new photos and illustrations new and updated resources for instructors and students updated content reflects the current state of medical knowledge and practice more clinical information including general and specific treatments for diseases with an emphasize on common laboratory tests chapter 26 infectious diseases and chapter 27 immunologic diseases are revised and now included in section 4 multiple organ system diseases chapters 24 mental illness and 30 nutritional disorders are revised to bring them up to date with current health problems e g obesity concepts and terminologies

shiga toxin producing escherichia coli stec is an important foodborne pathogen associated with both outbreaks and sporadic cases of human disease ranging from uncomplicated diarrhoea to haemorrhagic colitis hc and haemolytic uraemic syndrome hus stec affects children elderly and immuno compromised patients stec is capable of producing shiga toxin type 1 stx1 type 2 stx2 or both encoded by stx1 and stx2 genes respectively these strains are likely to produce putative accessory virulence factors such as intimin encoded by eae an enterohaemolysin ehxa and an autoagglutinating protein commonly associated with eae negative strains saa both encoded by an enterohaemorrhagic plasmid several studies have confirmed that cattle are the principal reservoir of stec o157 and non o157 h7 serotypes and many of these serotypes have been involved in hus and hc outbreaks in other countries transmission of stec to humans occurs through the consumption of undercooked meat vegetables and water contaminated by faeces of carriers and by person to person contact diagnostic methods have evolved to avoid selective diagnostics

currently using molecular techniques for typing and subtyping of strains control is still a challenge although there are animal vaccines directed against the serotype o157 h7

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