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The Nuclear Receptor FactsBook Sep 29 2022 The FactsBook Series has established itself as the best source of easily accessible and accurate facts about protein groups. They use an easy-to-follow format and are researched and compiled by experts in the field. This Factsbook is devoted to nuclear receptors. The first section presents an introduction and describes the mode of action of the receptors in general. The second section of the book contains detailed entries covering each type of receptor. Entries provide information on: Nomenclature and structure, Isolation, DNA binding properties, Ligands, Expression, Target genes, Knockouts, Disease association, Gene structure, promoter and isoforms, Chromosomal location, Amino acid sequences, Key references

The Immunoglobulin FactsBook Oct 31 2022 The FactsBook series has established itself as the best source of easily accessible and accurate facts about protein groups. Books in the series use an easy-to-follow format and are meticulously researched and compiled by experts in the field. The Immunoglobulin FactsBook is the first published reference for all 203 human functional and ORF immunoglobulin genes. It is complete and standardized and employs nomenclature approved by the HUGO Nomenclature Committee.

Immunoinformatics Aug 17 2021 This volume both engages the reader and provides a sound foundation for the use of immunoinformatics techniques in immunology and vaccinology. It addresses databases, HLA supertypes, MCH binding, and other properties of immune systems. The book contains chapters written by leaders in the field and provides a firm background for anyone working in immunoinformatics in one easy-to-use, insightful volume.

[Fluorinated Hydrocarbons—Advances in Research and Application: 2013 Edition](#) Aug 05 2020 *Fluorinated Hydrocarbons—Advances in Research and Application: 2013 Edition* is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Chlorofluorocarbons. The editors have built *Fluorinated Hydrocarbons—Advances in Research and Application: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Chlorofluorocarbons in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Fluorinated Hydrocarbons—Advances in Research and Application: 2013 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Immunogenomics and Human Disease Apr 12 2021 This book provides an overview of key conceptual and molecular technologies being deployed in immunogenomics, followed by detailed evaluations of the impact of genomics and systems biology on important areas such as cancer immunology, autoimmunity, allergy and the response to infection.

Evolutionary Parasitology Nov 27 2019 Parasites and infectious diseases are everywhere and represent some of the most potent forces shaping the natural world. They affect almost every aspect imaginable in the life of their hosts, even as far as the structure of entire ecosystems. Hosts, in turn, have evolved complex defences, with immune systems being among the most sophisticated processes known in nature. In response, parasites have again found ways to manipulate and exploit their hosts. Ever since life began, hosts and parasites have taken part in this relentless co-evolutionary struggle with far-reaching consequences for us all. Today, concepts borrowed from evolution, ecology, parasitology, and immunology have formed a new synthesis for the study of host-parasite interactions. Evolutionary parasitology builds on these established fields of scientific enquiry but also includes some of the most successful interdisciplinary areas of modern biology such as evolutionary epidemiology and ecological immunology. The first edition of this innovative

text quickly became the standard reference text for this new discipline. Since then, the field has progressed rapidly and an update is now required. This new edition has been thoroughly revised to provide a state-of-the-art overview, from the molecular bases to adaptive strategies and their ecological and evolutionary consequences. It includes completely new material on topics such as microbiota, evolutionary genomics, phylodynamics, within-host evolution, epidemiology, disease spaces, and emergent diseases. Evolutionary Parasitology is suitable for advanced undergraduates, graduate level students, and interdisciplinary researchers from a variety of fields including immunology, genetics, sexual selection, population ecology, behavioural ecology, epidemiology, and evolutionary biology. Those studying and working in adjacent fields such as conservation biology, virology, medicine, and public health will also find it an invaluable resource for connecting to the bases of their science.

Investigating and harnessing T-cell functions with engineered immune receptors and their ligands Jul 04 2020 T-cells are an essential component of the immune system that provide protection against pathogen infections and cancer and are involved in the aetiology of numerous autoimmune and autoinflammatory pathologies. Their importance in disease, the relative ease to isolate, expand and manipulate them ex vivo have put T-cells at the forefront of basic and translational research in immunology. Decades of study have shed some light on the unique way T-cells integrate extrinsic environmental cues influencing an activation program triggered by interactions between peptide-MHC complexes and the antigen-recognition machinery constituted of clonally distributed T-cell receptors and their co-receptor CD4 or CD8. The manipulation of these molecular determinants in cellular systems or as recombinant proteins has considerably enhanced our ability to understand antigen-specific T-cell activation, to monitor ongoing T-cell responses and to exploit T-cells for therapy. Even though these principles have given numerous insights in the biology of CD8+ T-cells that translate into promising therapeutic prospects, as illustrated by recent breakthroughs in cancer therapy, they have proven more challenging to apply to CD4+ T-cells. This Research Topic aims to provide a comprehensive view of the recent insights provided by the use of engineered antigen receptors and their ligands on T-cell activation and how they have been or could be harnessed to design efficient immunotherapies.

HIV Immunology and HIV SIV Vaccine Databases 2003 Nov 19 2021 [Immunoinformatics](#) Mar 12 2021 The astounding diversity of the immune system and the complexity of its regulatory pathways makes immunology a combinatorial science. Computational analysis has therefore become an essential element of immunology research and this has led to the creation of the emerging field of immunoinformatics. This book is the first to feature thorough coverage of this new

field. Immunoinformatics facilitates the understanding of immune function by modelling the interactions among immunological components. Biological research provides ever deeper insights into the complexity of living organisms while computer science provides an effective means to store and analyse large volumes of complex data. Combining the two fields increases the efficiency of biological research and offers the potential for major advances in the study of biological systems. This book encompasses key developments in immunoinformatics, including immunological databases, sequence analysis, structure modelling, mathematical modelling of the immune system, simulation of laboratory experiments, statistical support for immunological experimentation and immunogenomics. The difficulties in effective application of bioinformatic tools in immunology arise at both ends of the spectrum: most immunologists have only a limited comprehension of sophisticated data analysis and applicability and limitations, while the average computer scientist lacks knowledge of the depth and complexity of biological data. The purpose of this book, therefore, is to present contributions from a multidisciplinary team of biologists and computer scientists to explore the issues related to better understanding of immune function and, in particular, to help apply new computer science methods to immunological research. Related Novartis Foundation symposia: 247 *In Silico Simulation of Biological Processes* Chair: Denis Noble 252 *Generation and effector functions of regulatory lymphocytes* Chair: Jean-François Bach

Postgraduate Haematology Feb 08 2021 The textbook of choice for trainees and practitioners in haematology Over five editions *Postgraduate Haematology* has built a reputation as an extremely practical, user-friendly, reliable source of information for examination preparation and clinical practice. Completely revised to reflect the latest research in the field, this edition continues to provide trainees with up-to-date knowledge on the pathogenesis, clinical and laboratory features, and management of blood disorders. It covers the significant advances which have occurred in the application of cytogenetics and molecular genetics in the diagnosis, classification and understanding of haematological disorders. Coupled with the expertise of 34 new contributors from across Europe, the editors have been joined by Professor Anthony Green, from the University of Cambridge, and they have reorganised the book into 52 accessible chapters. *Postgraduate Haematology* is richly illustrated throughout with over 450 colour illustrations including line drawings, photomicrographs of blood cells and tissues, and algorithms to help aid treatment decision making. It is an indispensable resource for trainees and an essential read for all specialists who are interested in updating their knowledge. Companion resources site for this book:

www.wiley.com/go/hoffbrand/postgraduate with: Figures and tables from the book for downloading Interactive multiple-choice questions

A Dictionary of Virology Nov 07 2020 This third edition of *A Dictionary of Virology* offers an authoritative, concise, and up-to-date list of

all viruses affecting vertebrate species, from humans to fish. It has been completely revised since the 1997 edition to include 25% more entries, including many completely new viruses. The entries have been restructured so that all viruses are listed and classified in accordance with the standards set by the 7th Report of the ICTV. The extensive cross-referencing and illustrative tables further enhance the utility of this reference.

Trends and Advances in Veterinary Genetics Sep 17 2021 It is very important to understand the recent advances and basic concepts of veterinary genetics to explore the possibilities for control of diseases in animals. They are also significant for enhancing animal production and reproduction. Our book *Trends and Advances in Veterinary Genetics* provides a concise introduction and details to the aspects of genetics relevant to animal science and production. This is the first edition of the book so it covers the introductory level of topics which are ideal for veterinary students, classroom use, and practitioners who require more guidance with genetics. The book coverage includes the following main sections: *Biotechnology and Reproductive Genetics, Advances in Embryonic Genetics, Conservation and Basic Genetics, and Veterinary Genetics and Future*. Each book section comprises two chapters from renowned experts from the area and gives readers a unique opportunity to explore the topic.

The Leucocyte Antigen Factsbook Oct 26 2019 Contains entries on all CD molecules and all other sequenced molecules expressed on the surface of haematopoietic cells (white and red blood cells). Each entry has a common format, using a minimum amount of text, and contains information on the sequence, expression and Physicochemic properties

Computational Toxicology Dec 09 2020 A key resource for toxicologists across a broad spectrum of fields, this book offers a comprehensive analysis of molecular modelling approaches and strategies applied to risk assessment for pharmaceutical and environmental chemicals. Provides a perspective of what is currently achievable with computational toxicology and a view to future developments Helps readers overcome questions of data sources, curation, treatment, and how to model / interpret critical endpoints that support 21st century hazard assessment Assembles cutting-edge concepts and leading authors into a unique and powerful single-source reference Includes in-depth looks at QSAR models, physicochemical drug properties, structure-based drug targeting, chemical mixture assessments, and environmental modeling Features coverage about consumer product safety assessment and chemical defense along with chapters on open source toxicology and big data

HIV Immunology and HIV/SIV Vaccine Databases Dec 21 2021

Immunology Guidebook Jan 22 2022 The *Immunology Guidebook* provides an easily accessible text-reference to the more up-to-date and difficult concepts in the complex science of immunology. It aims to demystify basic concepts and specialised molecular and cellular interactions. Its 18 chapters offer a logical and sequential presentation where much of the data is displayed in carefully designed tables. This

book is intended for immunology students, researchers, practitioners and basic biomedical scientists. Tables provide a quick reference to 'difficult to find' immunology data A distillate of the latest information on immunogenetics of the human MHC associated with tissue transplantation Information boxes feature related web resources

The T Cell Receptor FactsBook Jun 26 2022 The *T Cell Receptor FactsBook* contains entries on all the 176 functional variable, diversity, joining, and constant regions of the human T cell receptor, including alpha, beta, gamma, and delta loci. Introductory chapters summarize information of T cell receptor chain synthesis, chromosomal location, and an overview of the human T cell receptor loci.

The Leukemia-Lymphoma Cell Line Factsbook Apr 24 2022 This book represents an essential reference manual for all of the well-characterized leukemia-lymphoma cell lines currently available. It provides the most important facts, using the succinct and user-friendly format that has made the *FactsBooks* so popular with scientists and clinical researchers. Introductory chapters provide background and perspective for culturing malignant hematopoietic (blood forming) cell lines. These chapters are followed by over 400 comprehensive individual entries. Each cell line entry highlights essential clinical, immunological, genetic, and functional features and includes a comprehensive listing of references. Key Features * the full spectrum of malignant cell lines from all hematopoietic cell lineages * sister cell lines and relevant subclones * clinical data: patient, diagnosis, treatment status, and specimen source * authentication of derivation and availability * immunophenotype * cytogenetic karyotype * translocations and fusion genes * receptor gene rearrangements and genetic alterations * cell cultures aspects: establishment, medium, doubling time, growth * cytochemical profile * cytokine production and response to cytokines * proto-oncogene and transcription factor expression/alteration * functional features: differentiation induction, heterotransplantability * special unique features * key references

The Complement FactsBook May 26 2022 The *Complement FactsBook* contains entries on all components of the Complement System, including C1q and Lectins, C3 Family, Serine Proteases, Serum Regulators of Complement Activation, Cell Surface Proteins, and Terminal Pathway Proteins. Domain Structure diagrams are incorporated to clearly illustrate the relationships between all the complement proteins, both within families and between families. The *FactsBook* also includes the cDNA sequences, marked with intron/exon boundaries, which will facilitate genetic studies. Key Features * Includes the cDNA sequences, marked with intron/exon boundaries, facilitating genetic studies * Presents detailed structural information including cDNA and gene structure for all proteins * Introduces complement function, simply described for each function * Data is as up-to-date as possible, including unpublished work from many contributors * Incorporates domain structures diagrams, which beautifully illustrate the relationship between all the complement proteins, both within, and

between, families * Each chapter has been written by an expert in the field * Data is as up-to-date as possible, including unpublished work from many contributors Entries provide information on: * Alternative nomenclature * Physicochemical properties * Structure and function * Tissue distribution and regulation expression * Protein sequence/modules * Chromosomal location * Genomic structure * Database accession numbers * Deficiency and polymorphic variants * Key references

Social and Cultural Perspectives on Health, Technology and Medicine Dec 29 2019

Developments in health, science and technology have long provided fertile analytical ground for social science disciplines. This book focuses on the critical and enduring importance of core concepts in anthropology and sociology for interrogating and keeping pace with developments in the life sciences. The authors consider how transformations in medical and scientific knowledge serve to reanimate older controversies, giving new life to debates about relations between society, culture, knowledge and individuals. They reflect on the particular legacies and ongoing relevance of concepts such as 'culture', 'society', 'magic', 'production', 'kinship', 'exchange' and 'the body'. The chapters draw on the work of key historical and contemporary figures across the social sciences and include a range of illustrative case studies to explore topics such as transplant medicine, genetic counselling, cancer therapy, reproductive health and addiction. Of particular interest to students and scholars of anthropology, sociology, and science and technology studies, this volume will also be a valuable resource for those working in the fields of health and medicine.

Natural History of Host-Parasite

Interactions Aug 24 2019 This volume covers a wide range of systems, exemplified by a broad spectrum of micro- and macro-parasites, impacting humans, domestic and wild animals and plants. It illustrates the importance of evolutionary considerations and concepts, both as thinking tools for qualitative understanding or as guiding tools for decision making in major disease control programs. * Brings together a range of articles from scientists from different fields of research and/or disease control, but with a common interest in studying the biology of a variety of parasitic diseases * Evolutionary theory has an important role to play in both the interpretation of host and parasitic dynamics and the design and application of disease control programs

Immunology and Evolution of Infectious

Disease Jul 16 2021 From HIV to influenza, the battle between infectious agents and the immune system is at the heart of disease. Knowledge of how and why parasites vary to escape recognition by the immune system is central to vaccine design, the control of epidemics, and our fundamental understanding of parasite ecology and evolution. As the first comprehensive synthesis of parasite variation at the molecular, population, and evolutionary levels, this book is essential reading for students and researchers throughout biology and biomedicine. The author uses an evolutionary perspective to meld the terms and findings of molecular biology, immunology, pathogen biology, and population dynamics. This multidisciplinary approach offers

newcomers a readable introduction while giving specialists an invaluable guide to allied subjects. Every aspect of the immune response is presented in the functional context of parasite recognition and defense--an emphasis that gives structure to a tremendous amount of data and brings into sharp focus the great complexity of immunology. The problems that end each chapter set the challenge for future research, and the text includes extensive discussion of HIV, influenza, foot-and-mouth disease, and many other pathogens. This is the only book that treats in an integrated way all factors affecting variation in infectious disease. It is a superb teaching tool and a rich source of ideas for new and experienced researchers. For molecular biologists, immunologists, and evolutionary biologists, this book provides new insight into infectious agents, immunity, and the evolution of infectious disease.

The HLA Factsbook Jan 02 2023 The HLA FactsBook presents up-to-date and comprehensive information on the HLA genes in a manner that is accessible to both beginner and expert alike. The focus of the book is on the polymorphic HLA genes (HLA-A, B, C, DP, DQ, and DR) that are typed for in clinical HLA laboratories. Each gene has a dedicated section in which individual entries describe the structure, functions, and population distribution of groups of related allotypes. Fourteen introductory chapters provide a beginner's guide to the basic structure, function, and genetics of the HLA genes, as well as to the nomenclature and methods used for HLA typing. This book will be an invaluable reference for researchers studying the human immune response, for clinicians and laboratory personnel involved in clinical and forensic HLA typing, and for human geneticists, population biologists, and evolutionary biologists interested in HLA genes as markers of human diversity. Key Features * Introductory chapters provide good general overview of HLA field for novice immunologists and geneticists * Up-to-date, complete listing of HLA alleles * Invaluable reference resource for immunologists, geneticists, and cell biologists * Combines both structural and functional information, which has never been compiled in a single reference book previously * Serological specificity of allotypes * Identity of material sequenced including ethnic origin * Database accession numbers * Population distribution * Peptide binding specificities * T cell epitopes * Amino acid sequences of allotypes * Key references

Clinical Immunology, Principles and Practice (Expert Consult - Online and Print), 4 Sep 05 2020 Written and edited by international leaders in the field, this book has, through two best-selling editions, been the place to turn for authoritative answers to your toughest challenges in clinical immunology. Now in full color and one single volume, the 3rd Edition brings you the very latest immunology knowledge - so you can offer your patients the best possible care. The user-friendly book and the fully searchable companion web site give you two ways to find the answers you need quickly...and regular online updates keep you absolutely current. Leading international experts equip you with peerless advice and global best practices to enhance your diagnosis and management of a full range of immunologic

problems. A highly clinical focus and an extremely practical organization expedite access to the answers you need in your daily practice. Cutting-edge coverage of the human genome project, immune-modifier drugs, and many other vital updates keeps you at the forefront of your field. A new organization places scientific and clinical material side by side, to simplify your research and highlight the clinical relevance of the topics covered. A multimedia format allows you to find information conveniently, both inside the exceptionally user-friendly book and at the fully searchable companion web site. Regular updates online ensure that you'll always have the latest knowledge at your fingertips. Includes many new and improved illustrations and four color design. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. If the next edition is published less than one year after your purchase, you will be entitled to online access for one year from your date of purchase. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should access to the web site be discontinued.

The HLA FactsBook Dec 01 2022 The HLA FactsBook presents up-to-date and comprehensive information on the HLA genes in a manner that is accessible to both beginner and expert alike. The focus of the book is on the polymorphic HLA genes (HLA-A, B, C, DP, DQ, and DR) that are typed for in clinical HLA laboratories. Each gene has a dedicated section in which individual entries describe the structure, functions, and population distribution of groups of related allotypes. Fourteen introductory chapters provide a beginner's guide to the basic structure, function, and genetics of the HLA genes, as well as to the nomenclature and methods used for HLA typing. This book will be an invaluable reference for researchers studying the human immune response, for clinicians and laboratory personnel involved in clinical and forensic HLA typing, and for human geneticists, population biologists, and evolutionary biologists interested in HLA genes as markers of human diversity. Introductory chapters provide good general overview of HLA field for novice immunologists and geneticists Up-to-date, complete listing of HLA alleles Invaluable reference resource for immunologists, geneticists, and cell biologists Combines both structural and functional information, which has never been compiled in a single reference book previously Serological specificity of allotypes Identity of material sequenced including ethnic origin Database accession numbers Population distribution Peptide binding specificities T cell epitopes Amino acid sequences of allotypes Key references

The Dictionary of Virology Mar 31 2020 Completely revised and updated to take into account the new taxonomy and grouping changes made by the International Committee on Taxonomy of Viruses in their 8th Report, The Dictionary of Virology provides an authoritative and concise list of all viruses affecting vertebrate species, from humans to fish. Includes the new viruses of medical or veterinary importance that have emerged since

2001, such as the new human coronaviruses, SARS and NL63 and a new subtype of influenza (H1N2) Includes new terms in virology Extensive cross-referencing and illustrative tables further enhance the use of this book

The Blood Group Antigen FactsBook Mar 24 2022 The second edition of The Blood Group Antigen FactsBook provides key information relating to human red blood cell membrane components carrying blood group antigens, the molecular basis of the antigens, their serological characteristics, and the clinical significance of blood group antibodies. The data on this group of molecules has expanded greatly since the previous edition was published five years ago. Topics include: history and information on terminology, expression, chromosomal assignment, carrier molecule description, molecular basis of antigens, effect of enzymes/chemicals, clinical significance, disease association, phenotypes, glycotypes and key references. Over 250 fully updated entries on blood group antigens, formatted on single pages for easy use Inclusion of RHAG blood group system and over twenty new antigens Basic science paired with clinical applications to give context to information Full-color illustrations, gene maps and charts Both traditional and ISBT-sanctioned naming conventions included

Manual of Allergy and Immunology Jun 02 2020 Completely revised and updated for its Fourth Edition, this Spiral(R) Manual is a quick-reference guide to the diagnosis and treatment of allergies and immunologic disorders in children and adults. Coverage includes allergic and immunologic disorders of each organ system; anaphylaxis; insect, drug, and food allergies; rheumatic diseases; immunohematology; transplantation immunology; primary immunodeficiency diseases; HIV disease and related opportunistic infections; immunologic diagnostic techniques; and immunization and immunoprophylaxis. The book is written in an easy-to-scan outline format, with numerous tables. Fourteen appendices provide rapid access to essential information, including normal laboratory values, allergy elimination diets, and manufacturers of allergenic extracts and environmental control products. A Brandon-Hill recommended title.

The HLA Complex in Biology and Medicine Feb 20 2022 A comprehensive guide to the HLA (Human Leukocyte Antigen) system for immunologists and clinicians, this book contains up-to-date information on the MHC (Major Histocompatibility Complex) and its role in the immune response and in various diseases. The book explores the biological significance and role of the HLA system in organ and haematopoietic stem cell transplantation management. This volume is an invaluable guide to the full spectrum of HLA-related science while also serving as a conceptual and technical resource for those involved in HLA-related research and in clinical or surgical practice. In addition, it will be a primary point of contact for individuals working in other areas who suddenly find that their research is drawing them into the complexities of HLA genetics.

Immunohematology: Principles and Practice Jun 14 2021 Immunohematology: Principles and Practice, Third Edition an ideal text for anyone

who wants to master the theory and practices of today's blood banking.

Clinical Immunology E-Book Sep 25 2019 Offering unique, comprehensive coverage of both basic science and clinical scenarios, Clinical Immunology: Principles and Practice, 6th Edition, brings you up to date with every aspect of this fast-changing field. It examines the molecular, cellular, and immunologic bases of immunologic diseases and their broader systemic implications; it also includes complete coverage of common and uncommon immunologic disorders. Updated with all the latest immunologic research and clinical implications, including breakthrough immunotherapies and molecular-based treatment protocols, this fully revised edition provides authoritative guidance from some of the most respected global leaders in immunology in one complete, well-illustrated volume. Includes extensive revisions that reflect rapidly expanding research and clinical advances, including breakthrough drug and immunotherapies such as immune checkpoint inhibitors, immunotherapies for cancer, precision medicine, and transfusion medicine. Contains new chapters on COVID-19, immune responses, and the role of the immune system; immunoregulatory deficiencies; immune checkpoints; CAR T cells, including new cellular-based immunotherapy; gene therapy, including CRISPR and gene selection; and a clinically focused chapter on asthma. Provides new genetics content focused on data applications. Addresses notable advances in key areas such as the importance of the microbiota to normal immune system development and to the pathogenesis of immunologic and inflammatory diseases; relationships between the innate and adaptive immune systems; progress in rapid and cost-effective genomics; cell signaling pathways and the structure of cell-surface molecules; and many more. Covers hot topics such as the role of genetics and genomics in immune response and immunologic disease, atherosclerosis, recurrent fever syndromes, aging and deficiencies of innate immunity, the role of microbiota in normal immune system development and in the pathogenesis of immunologic and inflammatory diseases, and novel therapeutics. Features a user-friendly format with color-coded boxes highlighting critical information on Key Concepts, Clinical Pearls, Clinical Relevance, and Therapeutic Principles. Summarizes promising research and development anticipated over the next 5-10 years with "On the Horizon" boxes and discussions of translational research.

The Cytokine Factsbook and Webfacts Aug 29 2022 Completely revised and expanded, this second edition of The Cytokine FactsBook is the most up-to-date reference manual available for all current well-characterized interleukins, cytokines, and their receptors. An additional 52 cytokines are included, doubling the number of entries from the previous edition. The key properties of each cytokine are described and presented in a very accessible format with diagrams for each of the receptors. The Cytokine FactsBook includes free online access to the regularly updated Cytokine Webfacts. Cytokine Webfacts is a web-based comprehensive compendium of facts about cytokines and their receptors that includes a

variety of data representations, such as text, signal pathway diagrams and 3D images. This exciting resource is integrated into other databases via hypertext links to provide a unique network, and contains a web-enabled version of RasMol for viewing structures. Reproductive Science and Integrated Conservation Feb 29 2020 Reproduction is essential to the continuation and evolution of life on this planet and is therefore a centrally important process in the conservation of wildlife. However, reproductive mechanisms are well understood in only a handful of vertebrate species, mostly domestic livestock and laboratory animals. This means that attempts to develop and implement management policies for wildlife conservation, and especially for endangered species that, by definition, are difficult to study, are often based on poor data or no data at all. In Reproductive Science and Integrated Conservation leading authorities provide glimpses of reproductive diversity in fishes, amphibia, reptiles, birds and mammals. Conservation plans are founded on the assumption that reproduction will be successful, but what if it fails? This book reviews the many factors that influence reproduction, including genetics, behaviour and nutrition, and experts assess the potential conservation relevance of the recent rapid advances in reproductive technology and medicine.

HLA from Benchtop to Bedside Jan 28 2020 HLA from Benchtop to Bedside provides the reader with a comprehensive, concise and thoroughly up-to-date book on all aspects of the HLA system, including new techniques and methodologies. Each chapter begins with bullet point lists of principle learning points, including comprehensive references and validated links to international resources. Written by a diverse range of international academics for professionals, researchers, undergraduate and graduate students, this book is ideal for organ and stem cell transplant professionals, histocompatibility laboratory professionals and staff, medical residents and fellows on transplant services, medical students, and students in clinical laboratory science. The book's author, Dr. Arthur Bradley Eisenbrey, is an experienced transplant pathologist who has held significant academic and leadership positions in the field. Reviews current knowledge surrounding the HLA system Covers current methodologies and utilization of histocompatibility testing Authored by a leader in the field of histocompatibility and transfusion medicine

Clinical Cases in Skin of Color Jan 10 2021 This book will identify the top dermatological conditions for patients with skin of color and provide essential features which contrast these conditions in darker skin types. The reader will be able to formulate informed treatment regimens for patients with skin of color. The book will also provide clinical pearls to guide decision making, as well as important cultural beliefs that must be considered in order to provide optimal care to patients with skin of color. Clinical cases are a key component in modern medical education, assisting the trainee or recertifying clinician to work through unusual cases using best practice techniques. Dermatology is an important discipline in this regard since it is a highly visual subject

requiring the reader to describe often very subtle differences in the presentation of patients and define accurately the diagnostic and management criteria to base their clinical decision-making on. By the year 2050, people with skin of color (including Africans, African Americans, Asians, Native Americans and Hispanics) will represent more than half of the U.S. population. There is now an increasing demand for dermatologic treatments in patients with skin of color, as well as an accompanying need for education and training in this quickly expanding market. Skin of Color is a key topic within dermatology as specific conditions can be harder to diagnose effectively in darker skin, and their treatment can be compromised by this. Conditions such as psoriasis, eczema, and atopic dermatitis may be more difficult to diagnose in darker skin. There are various other conditions that can provide a challenge in management, including postinflammatory hyperpigmentation, melasma, scarring, alopecias, and pseudofolliculitis barbae. If these skin disorders are not diagnosed and treated properly, the initial lesions can become darker as they heal, and the darker spots can last for years in some cases.

Monoclonal Antibodies May 02 2020

Immune-based therapies are being studied extensively in a variety of immunological conditions due to their high precision and sensitivity. Monoclonal antibody (mAb) technology is a major advancement in the treatment of several infectious diseases, malignancies, and immunological disorders. This book provides comprehensive information about technologies, characterization, and application of mAbs in the clinic and laboratory.

Genes and Common Diseases Oct 19 2021

The aim of this book is to present an up-to-date view of the role of genetics in modern medicine.

The Leucocyte Antigen Factsbook Oct 07

2020 A volume in the popular FactsBook Series, the First Edition of The Leucocyte Antigen FactsBook was hugely successful. The new

Second Edition has been completely revised, updated, and expanded by 65% to include new findings and up-to-date key references. The introductory chapters have also been updated, especially in terms of nomenclature, the role of the World Wide Web, and new structural data. The Leucocyte Antigen FactsBook, Second Edition contains more than 200 entries, with approximately 70 new entries, on all the molecules specifically expressed in the surface of cells of the haematopoietic system, including all characterized CD antigens, antigen receptors, MHC antigens, adhesion molecules, and cytokine receptors. This FactsBook will be of enormous value to immunologists, cell biologists, biochemists, and endocrinologists. Key Features * Completely up-to-date * Revised and expanded to include over 70 new entries * More than 200 entries in total, plus additional introductory material * New structural data * New nomenclature for CD and related molecules covered

Immunological Bioinformatics May 14 2021

Using bioinformatics methods to generate a systems-level view of the immune system; description of the main biological concepts and the new data-driven algorithms. Despite the fact that advanced bioinformatics methodologies have not been used as extensively in immunology as in other subdisciplines within biology, research in immunological bioinformatics has already developed models of components of the immune system that can be combined and that may help develop therapies, vaccines, and diagnostic tools for such diseases as AIDS, malaria, and cancer. In a broader perspective, specialized bioinformatics methods in immunology make possible for the first time a systems-level understanding of the immune system. The traditional approaches to immunology are reductionist, avoiding complexity but providing detailed knowledge of a single event, cell, or molecular entity. Today, a variety of

experimental bioinformatics techniques connected to the sequencing of the human genome provides a sound scientific basis for a comprehensive description of the complex immunological processes. This book offers a description of bioinformatics techniques as they are applied to immunology, including a succinct account of the main biological concepts for students and researchers with backgrounds in mathematics, statistics, and computer science as well as explanations of the new data-driven algorithms in the context of biological data that will be useful for immunologists, biologists, and biochemists working on vaccine design. In each chapter the authors show interesting biological insights gained from the bioinformatics approach. The book concludes by explaining how all the methods presented in the book can be integrated to identify immunogenic regions in microorganisms and host genomes.

The Adhesion Molecule FactsBook Jul 28 2022

This updated and expanded Second Edition of The Adhesion Molecule FactsBook has nearly double the number of entries of the First Edition, and provides a compendium of the major cell surface adhesion molecules. The introductory chapters detail the organization of the data in the entries section, provide a background to the main adhesion molecule families, and inform the reader how to access information on adhesion molecules on the Internet. The entries have been designed to allow the reader to quickly establish the main structure and functional features of each molecule and where to find information. alternative nomenclature tissue distribution and regulation of expression ligands gene organization and chromosomal location protein structure and molecular weights amino acid sequence of the most commonly studied organisms PIR, SWISSPROT, and EMBL/GenBank accession numbers biological function key references

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