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Formal Languages, Automata and Numeration Systems 2 Michel Rigo 2014-11-17 The interplay between words, computability, algebra and arithmetic has now proved its relevance and fruitfulness. Indeed, the cross-fertilization between formal logic and finite automata (such as that initiated by J.R. Büchi) or between combinatorics on words and number theory has paved the way to recent dramatic developments, for example, the transcendence results for the real numbers having a "simple" binary expansion, by B. Adamczewski and Y. Bugeaud. This book is at the heart of this interplay through a unified exposition. Objects are considered with a perspective that comes both from theoretical computer science and mathematics. Theoretical computer science offers here topics such as decision problems and recognizability issues, whereas mathematics offers concepts such as discrete dynamical systems. The main goal is to give a quick access, for students and researchers in mathematics or computer science, to actual research topics at the intersection between automata and formal language theory, number theory and combinatorics on words. The second of two volumes on this subject, this book covers regular languages, numeration systems, formal methods applied to decidability issues about infinite words and sets of numbers.

Introduction to Animal Parasitology J. D. Smyth 1994-11-24 This textbook in parasitology incorporates the spectacular advances in biological sciences within recent years. It presents students and research workers with a broad approach to the morphology, ultrastructure, speciation, life cycles, biochemistry, in vitro culture and immunology of parasitology.

Plant Physiological Ecology Hans Lambers 2008-10-08 Box 9E. 1 Continued FIGURE 2. The C-S-R triangle model (Grime 1979). The strategies at the three corners are C, competi- winning species; S, stress-tolerating s- cies; R, ruderalspecies. Particular species can engage in any mixture of these three primary strategies, and the m- ture is described by their position within the triangle. comment briefly on some other dimensions that Grime's (1977) triangle (Fig. 2) (see also Sects. 6. 1 are not yet so well understood. and 6. 3 of Chapter 7 on growth and allocation) is a two-dimensional scheme. A C—S axis (Com- tition-winning species to Stress- tolerating spe- Leaf Economics Spectrum cies) reflects adaptation to favorable vs. unfavorable sites for plant growth, and an R- Five traits that are coordinated across species are axis (Ruderal species) reflects adaptation to leaf mass per area (LMA), leaf life-span, leaf N disturbance. concentration, and potential photosynthesis and dark respiration on a mass basis. In the five-trait Trait-Dimensions space, 79% of all variation worldwidelies along a single main axis (Fig. 33 of Chapter 2A on photo- A recent trend in plant strategy thinking has synthesis; Wright et al. 2004). Species with low been trait-dimensions, that is, spectra of varia- LMA tend to have short leaf life-spans, high leaf tion with respect to measurable traits. Compared nutrient concentrations, and high potential rates of mass-based photosynthesis. These species with category schemes, such as Raunkiaer's, trait occur at the "quick-return" end of the leaf e- dimensions have the merit of capturing cont- nomics spectrum.

National Institute of Allergy and Infectious Diseases, NIH Vassil St. Georgiev 2008-08-22 For over 50 years, the mission of the National Institute of Allergy and Infectious Diseases (NIAID) has been to conduct and support basic and applied research to better understand, treat, and prevent infectious, immunologic, and allergic diseases with the ultimate goal of improving the health of individuals in the United States and around the world. As part of its mission to foster biomedical discovery and to reduce the burden of human disease, NIAID is committed to encouraging the accelerated translation of biomedical discoveries into effective clinical care and public health practice throughout the world. In pursuit of this goal and its disease-specific scientific objectives, NIAID seeks to broaden research opportunities and collaborations involving scientists and

institutions outside the United States. National Institute of Allergy and Infectious Diseases, NIH: Volume 1, Frontiers in Research contains presentations given at the 2006 NIAID Research Conference held in Opatija, Croatia which brought internationally known researchers from the United States and Central and Eastern Europe to focus together on shared interests in microbiology, infectious disease, HIV/AIDS, and basic and clinical immunology. Some of the topics covered include emerging and re-emerging infections, the development of infectious disease prophylactics and therapeutics, drug resistance, and various topics in immunomodulation, autoimmunity, infections and immunity, and the development of vaccines. Extensive and in-depth, National Institute of Allergy and Infectious Diseases, NIH: Volume 1, Frontiers in Research is a valuable, comprehensive guide to the state of research today.

Creative Growth Games Eugene Raudsepp 1980 Seventy-five stimulating numerical, verbal, and spatial games are designed to test and promote one's problem-solving abilities and creative imagination

Contributions to Nonlinear Functional Analysis Eduardo H. Zarantonello 1971

Thomas' Hematopoietic Cell Transplantation, 2 Volume Set Stephen J. Forman 2016-12-27 Fully revised for the fifth edition, this outstanding reference on bone marrow transplantation is an essential, field-leading resource. Extensive coverage of the field, from the scientific basis for stem-cell transplantation to the future direction of research Combines the knowledge and expertise of over 170 international specialists across 106 chapters Includes new chapters addressing basic science experiments in stem-cell biology, immunology, and tolerance Contains expanded content on the benefits and challenges of transplantation, and analysis of the impact of new therapies to help clinical decision-making Includes a fully searchable Wiley Digital Edition with downloadable figures, linked references, and more References for this new edition are online only, accessible via the Wiley Digital Edition code printed inside the front cover or at www.wiley.com/go/forman/hematopoietic.

The Psychology of Fake News Rainer Greifeneder 2020-08-13 This volume examines the phenomenon of fake news by bringing together leading experts from different fields within psychology and related areas, and explores what has become a prominent feature of public discourse since the first Brexit referendum and the 2016 US election campaign. Dealing with misinformation is important in many areas of daily life, including politics, the marketplace, health communication, journalism, education, and science. In a general climate where facts and misinformation blur, and are intentionally blurred, this book asks what determines whether people accept and share (mis)information, and what can be done to counter misinformation? All three of these aspects need to be understood in the context of online social networks, which have fundamentally changed the way information is produced, consumed, and transmitted. The contributions within this volume summarize the most up-to-date empirical findings, theories, and applications and discuss cutting-edge ideas and future directions of interventions to counter fake news. Also providing guidance on how to handle misinformation in an age of "alternative facts", this is a fascinating and vital reading for students and academics in psychology, communication, and political science and for professionals including policy makers and journalists.

International Ethical Guidelines for Health-Related Research Involving Humans Council for International Organizations of Medical Sciences (CIOMS) 2017-01-31 CIOMS, in association with the World Health Organization, started its work on ethics in health-related research in the late 1970s. Accordingly, CIOMS set out, in cooperation with WHO, to prepare guidelines to indicate how the ethical principles set forth in the Declaration of Helsinki of the World Medical Association, could be effectively applied, particularly in low-resource settings, given their socio-economic circumstances, laws and regulations, and executive and administrative arrangements. Since then revised editions of the CIOMS ethical guidelines were published in 1993 and 2002. New developments in research have prompted CIOMS to again revise their ethical guidelines. The result is now available in this new publication. In the new 2016 version of the ethical guidelines, CIOMS provides answers to a number of pressing issues in research ethics. The Council does so by stressing the need for research having scientific and social value, by providing special guidelines for health-related research in low-resource settings, by detailing the provisions for involving vulnerable groups in research and for describing under what conditions biological samples and health-related data can be used for research. Progress towards a world where all can enjoy optimal health and health care is crucially dependent on all kinds of research including research involving humans. Involving humans in medical research is necessary to improve the knowledge base on which medicine should be based. At the same time, individuals participating in health-related research have individual human rights and have a right to be protected against the risks that research may bring to them. The tension between these two considerations has led the medical community to endorse ethical guidelines for health-related research. Research Ethics Committees can use these guidelines to evaluate whether a given research protocol is ethically acceptable or not.

JPHMP's 21 Public Health Case Studies on Policy & Administration Lloyd Novick 2017-11-15 JPHMP's 21 Public

Health Case Studies on Policy & Administration, compiled by the founding editor and current editor-in-chief of the *Journal of Public Health Management and Practice*, provides you with real-life examples of how to strategize and execute policies and practices when confronted with issues such as disease containment, emergency preparedness, and organizational, management, and administrative problems.

Handbook of Dialysis John T. Daugirdas 2012-02-20 The revised, updated Fourth Edition of this popular handbook provides practical, accessible information on all aspects of dialysis, with emphasis on day-to-day management of patients. Chapters provide complete coverage of hemodialysis, peritoneal dialysis, special problems in dialysis patients, and problems pertaining to various organ systems. This edition reflects the latest guidelines of the National Kidney Foundation's Kidney Disease Outcomes Quality Initiative (KDOQI) on hemodialysis and peritoneal dialysis adequacy and on nutrition. New chapters cover chronic kidney disease management in predialysis patients, frequent daily or nocturnal hemodialysis, and hemodiafiltration. Chapters on venous and arteriovenous access have been completely revised. Each chapter provides references to relevant Web sites.

The Emotional Cerebellum Michael Adamaszek 2022-07-29 Emotions represent a critical aspect of daily life in humans. Our understanding of the mechanisms of regulation of emotions has increased exponentially these last two decades. This book evaluates the contribution of the cerebellum to emotion. It outlines the current clinical, imaging and neurophysiological findings on the role of the cerebellum in key aspects of emotional processing and its influence on motor and cognitive function and social behavior. In the first section, the reader is introduced to the contributions of the cerebellum to various emotion domains, from emotion perception and recognition to transmission and encoding. Subsequent chapters provide a comprehensive picture of the neurophysiology and topography of emotion in the cerebellum and illustrate the convergence of theoretical and empirical research. Additional chapters address the cerebellum's involvement in emotional learning, emotional pain, emotional aspects of body language and perception, and its relations to social cognition including morality, music, and art. Finally, neuropsychiatric aspects of the cerebellum's influence on mood disorders and the current state of therapeutic options, including noninvasive stimulation approaches, complete the overview. This is the first book summarizing the current state of knowledge on the contribution of the cerebellum to important aspects of emotion. It is an essential reference for students, trainees, neuroscientists, researchers, and clinicians in neuroscience, neurology, neurosurgery and psychology involved in the study of emotions. The authors are renowned scientists in the field of cerebellar research.

Toward a Global Middle Ages Bryan C. Keene 2019-09-03 This important and overdue book examines illuminated manuscripts and other book arts of the Global Middle Ages. Illuminated manuscripts and illustrated or decorated books—like today's museums—preserve a rich array of information about how premodern peoples conceived of and perceived the world, its many cultures, and everyone's place in it. Often a Eurocentric field of study, manuscripts are prisms through which we can glimpse the interconnected global history of humanity. *Toward a Global Middle Ages* is the first publication to examine decorated books produced across the globe during the period traditionally known as medieval. Through essays and case studies, the volume's multidisciplinary contributors expand the historiography, chronology, and geography of manuscript studies to embrace a diversity of objects, individuals, narratives, and materials from Africa, Asia, Australasia, and the Americas—an approach that both engages with and contributes to the emerging field of scholarly inquiry known as the Global Middle Ages. Featuring 160 color illustrations, this wide-ranging and provocative collection is intended for all who are interested in engaging in a dialogue about how books and other textual objects contributed to world-making strategies from about 400 to 1600.

The Scientist 1995-06

The Thalassaemia Syndromes David J. Weatherall 2008-04-30 In the new edition of this successful and authoritative book, the thalassaemias are reviewed in detail with respect to their clinical features, cellular pathology, molecular genetics, prevention and treatment. It is aimed at specialists in haematology in the laboratory or clinical setting, particularly in areas where thalassaemia is common either in the native population or in immigrant communities. The fourth edition has been both updated and re-organized. Three new chapters have been added on the link between alpha-thalassaemia and mental retardation, on avoidance and population control and on global epidemiology. Considerable emphasis is placed on molecular pathology reflecting the huge burst of information to have come out of this field in the last few years.

Progress in allergy. 43. *Neuroimmunoendocrinology* J. Edwin Blalock 1988

Clinical Nephrology 2010

The Art of Conversation in Cancer Care Richard P. McQuellon 2021-09-23 Every day, thousands of people are diagnosed with cancer or other life-threatening illnesses. Despite the best of intentions, it is not always easy to

communicate well under these circumstances or find deep empathy for something one has never experienced. When is it best to speak, and when to be silent? How can someone provide real comfort, and how can relationships with loved ones facing serious illness be enhanced in this most difficult time? Written by a psychosocial oncologist and psychologist-theologian, *The Art of Conversation in Cancer Care: Lessons for Caregivers* offers practical suggestions for health professionals, families, and friends about talking to one who has cancer. This revised and updated second edition is organized around the themes of mortal time and healing conversation with cancer patients and their caregivers. Mortal time is not so much a specific period, but rather, the psychological experience encountering mortality that often accompanies the diagnosis of cancer. The first section of the book articulates the many ways people experience mortal time, including a range of adaptive and less adaptive methods. Next, the basic elements of healing conversation are delineated, with an emphasis on the hope that can spring from talking with a trusted companion. Empathy, listening carefully, and responding thoughtfully and compassionately are discussed. In the final section, the authors offer guidance for caregivers. This section includes material on the risks and costs of companionship as well as personal virtues that help a person navigate the demands of mortal time with their loved one. The authors discuss resilience and the consequences of absorbing suffering including empathy shift where the cancer caregiver becomes less empathic with minor illnesses in others. They conclude with the power of healing conversation in mortal time as a source of hope. Throughout, numerous patient vignettes illustrate the art of conversation in cancer medicine.

Handbook of User Involvement in Nursing and Healthcare Research Elizabeth Morrow 2012-01-17 This book fills an important niche in the market providing practical expert advice on the involvement of service users - patients, carers and the public - in nursing and healthcare research. An invaluable guide for anyone working or involved in nursing and healthcare research, this book provides a step-by-step guide to the principles and process of involvement, including understanding the rationale for involvement, designing involvement, working with service users, and evaluating what has been achieved. With illustrations, worked examples and tool sheets throughout, this evidence-based guide uses real life examples from recent research studies in health and social care research, thus relating theory to practice in a meaningful way. The *Handbook of Service User Involvement in Nursing & Healthcare Research* introduces a wide range of key issues, including: Why? Why should researchers involve service users? How? How can researchers and service users work together successfully and productively? Who? Who chooses to become involved in research? How are issues of representation and diversity addressed? When? At what stage should service users be involved in the research process?

National Library of Medicine Recommended Formats for Bibliographic Citation Karen Patrias 1991 Includes recommended citation format styles for journals, books, conference publications, patents, audio visuals, electronic information, maps, legal materials, newspaper articles, bibliographies, dissertations, and scientific reports.

The Years of Lyndon Johnson Robert A. Caro 1990 Traces young Lyndon Johnson's rise from Texas poverty to political power, illuminating his political relationships

Cancer Immunotherapy Principles and Practice Lisa H. Butterfield, PhD 2017-06-28 *Cancer Immunotherapy Principles and Practice*, from the Society of Immunotherapy of Cancer (SITC), is the authoritative reference on cancer immunobiology and the immunotherapy treatments that harness the immune system to combat malignant disease. Featuring five sections and over 50 chapters covering the Basic Principles of Tumor Immunology, Cancer Immunotherapy Targets and Classes, Immune Function in Cancer Patients, Disease Specific Treatments and Outcomes, and Regulatory Aspects of Cancer Immunotherapy, this book covers all major topics that have shaped the development of immunotherapy and propelled it to its current place at the forefront of cancer treatment innovation. This volume is a comprehensive resource for oncologists and fellows, immunologists, cancer researchers, and related practitioners seeking understanding of the basic science and clinical applications of cancer immunotherapy. As well as presenting the evidence for immune-based cancer treatment, it positions immunotherapy in the context of other available cancer treatments and provides data on response rates, risks, and toxicities across a variety of diseases. Filled with detailed tables, and instructive illustrations, as well as key points for quick reference, *Cancer Immunotherapy Principles and Practice* simplifies a challenging and dynamic subject. Key Features: Clearly summarizes the basic principles and research supporting cancer immunotherapy clinical translation Contains expert guidance and treatment strategies for all immunotherapy classes and agents, including cell-based therapies, monoclonal antibodies, cytokine therapies, checkpoint inhibitors, oncolytic viruses, adjuvant approaches, and treatment combinations Includes expert perspectives from leading authorities in the field Provides information on all FDA-approved

immunotherapies, including clinical management and outcome data Discusses clinical aspects of immunotherapy for individual cancer types, including melanoma and other skin cancers, lung cancers, gynecologic cancers, gastrointestinal cancers, hematologic cancers, genitourinary cancers, head and neck cancers, sarcomas, brain and other CNS cancers, breast cancer, and pediatric malignancies. Explains regulatory aspects behind the development and approval of immunotherapy drugs Includes Online Access to the Digital Book

Current Protocols in Bioinformatics 2003

Tertiary Lymphoid Structures Marie-Caroline Dieu-Nosjean 2019-09-07 This volume explores the various methods used to study tertiary lymphoid structures (TLS) in pathological situations. Pre-clinical models are also discussed in detail to show how TLS structure, development, and maintenance can be targeted and studied in vivo. The chapters in this book cover topics such as humans and mice; strategies to quantify TLS in order to use it in stained tissue sections; classifying a gene signature from fixed and paraffin-embedded tissues; and development of murine inflammatory models to help look at TLS in the context of infection or malignancy. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and thorough, Tertiary Lymphoid Structures: Methods and Protocols is a valuable resource that increases the reader's knowledge on immune functions and how they will pave the way to future therapeutic applications.

EndNote Five 2001 Enables users to do online searching of remote bibliographic databases (including MEDLINE, Library of Congress and university library catalogs), allowing users to create a database of references and create bibliographies.

Biological Safety Dawn P. Wooley 2020-07-02 Biological safety and biosecurity protocols are essential to the reputation and responsibility of every scientific institution, whether research, academic, or production. Every risk—no matter how small—must be considered, assessed, and properly mitigated. If the science isn't safe, it isn't good. Now in its fifth edition, Biological safety: Principles and Practices remains the most comprehensive biosafety reference. Led by editors Karen Byers and Dawn Wooley, a team of expert contributors have outlined the technical nuts and bolts of biosafety and biosecurity within these pages. This book presents the guiding principles of laboratory safety, including: the identification, assessment, and control of the broad variety of risks encountered in the lab; the production facility; and, the classroom. Specifically, Biological Safety covers protection and control elements—from biosafety level cabinets and personal protection systems to strategies and decontamination methods administrative concerns in biorisk management, including regulations, guidelines, and compliance various aspects of risk assessment covering bacterial pathogens, viral agents, mycotic agents, protozoa and helminths, gene transfer vectors, zoonotic agents, allergens, toxins, and molecular agents as well as decontamination, aerobiology, occupational medicine, and training A resource for biosafety professionals, instructors, and those who work with pathogenic agents in any capacity, Biological safety is also a critical reference for laboratory managers, and those responsible for managing biohazards in a range of settings, including basic and agricultural research, clinical laboratories, the vivarium, field study, insectories, and greenhouses.

Mims' Medical Microbiology E-Book Richard Goering 2018-02-27 Learn all the microbiology and basic immunology concepts you need to know for your courses and exams. Now fully revised and updated, Mims' clinically relevant, systems-based approach and abundant colour illustrations make this complex subject easy to understand and remember. Learn about infections in the context of major body systems and understand why these are environments in which microbes can establish themselves, flourish, and give rise to pathologic changes. This systems-based approach to microbiology employs integrated and case-based teaching that places the 'bug parade' into a clinical context. Effectively review for problem-based courses with the help of chapter introductions and 'Lessons in Microbiology' text boxes that highlight the clinical relevance of the material, offer easy access to key concepts, and provide valuable review tools. Approach microbiology by body system or by pathogen through the accompanying electronic 'Pathogen Parade' – a quickly searchable, cross-referenced glossary of viruses, bacteria and fungi A new electronic 'Vaccine Parade' offers quick-reference coverage of the most commonly used vaccines in current clinical practice Deepen your understanding of epidemiology and the important role it plays in providing evidence-based identification of key risk factors for disease and targets for preventative medicine. Grasp and retain vital concepts easily, with a user-friendly colour coded format, succinct text, key concept boxes, and dynamic illustrations. New and enhanced information reflects the growing importance of the human microbiota and latest molecular approaches Access the complete contents on the go via the accompanying interactive eBook, with a range of bonus materials to

enhance learning and retention – includes self-assessment materials and clinical cases to check your understanding and aid exam preparation.

#MakeoverMonday Andy Kriebel 2018-10-02 Explore different perspectives and approaches to create more effective visualizations #MakeoverMonday offers inspiration and a giant dose of perspective for those who communicate data. Originally a small project in the data visualization community, #MakeoverMonday features a weekly chart or graph and a dataset that community members reimagine in order to make it more effective. The results have been astounding; hundreds of people have contributed thousands of makeovers, perfectly illustrating the highly variable nature of data visualization. Different takes on the same data showed a wide variation of theme, focus, content, and design, with side-by-side comparisons throwing more- and less-effective techniques into sharp relief. This book is an extension of that project, featuring a variety of makeovers that showcase various approaches to data communication and a focus on the analytical, design and storytelling skills that have been developed through #MakeoverMonday. Paging through the makeovers ignites immediate inspiration for your own work, provides insight into different perspectives, and highlights the techniques that truly make an impact. Explore the many approaches to visual data communication Think beyond the data and consider audience, stakeholders, and message Design your graphs to be intuitive and more communicative Assess the impact of layout, color, font, chart type, and other design choices Creating visual representation of complex datasets is tricky. There's the mandate to include all relevant data in a clean, readable format that best illustrates what the data is saying—but there is also the designer's impetus to showcase a command of the complexity and create multidimensional visualizations that "look cool." #MakeoverMonday shows you the many ways to walk the line between simple reporting and design artistry to create exactly the visualization the situation requires.

Current Protocols in Molecular Biology

ASM Style Manual for Journals and Books American Society for Microbiology 1991

AIDS and the Historian Victoria Angela Harden 1991

Writing for Publication in Nursing, Second Edition Marilyn Oermann 2010-06-24 The second edition of this book is designed for beginning and experienced authors, for nurses who want to write articles about their practice, and for graduate students in nursing to guide their preparation of papers for both courses and publication. Developing the ability to communicate in writing is an essential outcome of nursing programs, particularly at the graduate level. This book is a widely used resource on all aspects of: writing EBP papers, reporting research for use in practice, disseminating the findings of clinical projects and innovations, and preparing manuscripts for publication. The text includes new content that focuses on the dissemination of information in Evidence-Based Practice (EBP). Varied models of EBP are presented with an emphasis on how to disseminate evidence to different audiences, including how to prepare critical appraisals of research studies with implications for practice, literature reviews and syntheses, and other types of written reports that contribute to EBP.

Basic Immunology Abul K. Abbas 2004 The 2nd edition of this popular text emphasizes the fundamental concepts and principles of human immunology that students need to know, without overwhelming them with extraneous material. It leads the reader to a firm understanding of basic principles, using full-color illustrations; short, easy-to-read chapters; color tables that summarize key information clinical cases; and much more—all in a conveniently sized volume that's easy to carry. The New Edition has been thoroughly updated to reflect the many advances that are expanding our understanding of the field. The smart way to study! Elsevier titles with STUDENT CONSULT will help you master difficult concepts and study more efficiently in print and online! Perform rapid searches. Integrate bonus content from other disciplines. Download text to your handheld device. And a lot more. Each STUDENT CONSULT title comes with full text online, a unique image library, case studies, USMLE style questions, and online note-taking to enhance your learning experience. Your purchase of this book entitles you to access www.studentconsult.com at no extra charge. This innovative web site offers you... Access to the complete text and illustrations of this book. Integration links to bonus content in other STUDENT CONSULT titles. Content clipping for your handheld. An interactive community center with a wealth of additional resources. The more STUDENT CONSULT titles you buy, the more resources you can access online! Look for the STUDENT CONSULT logo on your favorite Elsevier textbooks!

Manual of Clinical Microbiology James H. Jorgensen 2015 The Gold Standard for medical microbiology, diagnostic microbiology, clinical microbiology, infectious diseases due to bacteria, viruses, fungi, parasites; laboratory and diagnostic techniques, sampling and testing, new diagnostic techniques and tools, molecular biology; antibiotics/ antivirals/ antifungals, drug resistance; individual organisms (bacteria, viruses, fungi, parasites).

Informatics in Health Sciences Curricula Robin R. Sewell 2005

EndNote 1 - 2 - 3 Easy! Abha Agrawal 2007-05-27 *Endnote Made Easy: Reference Management for the Professional* is intended for healthcare professionals (physicians, nurses, managers, etc.) and biomedical researchers engaged in writing scientific manuscripts. It aids readers in gaining an understanding of the effective use of information technology in storing, managing, retrieving, and citing references in scientific writings. It also provides step by step instruction on using Endnote, a popular reference management software.

Food Bioactives Sankar Chandra Deka 2019-10-29 This valuable volume addresses the growing consumer demand for novel functional food products and for high-value, nutritionally rich products by focusing on the sources and applications of bioactives from food. The chapters in the book describe functional properties and discuss applications of the selected food ingredients obtained from various sources, including culinary banana, phalsa, pseudocereals, roselle calyces, asparagus, and more. Several chapters address the resurgence of interest in pseudocereals due to their excellent nutritional and biological values, gluten-free composition, and the presence of some health-promoting compounds. The book also looks at utilizing industrial byproducts for making functional and nutraceutical ingredients. The chapters on prebiotics and probiotics highlight different functional properties, and a chapter on food allergens discusses advancements in detection and management in the food manufacturing industries.

Guide for the Care and Use of Laboratory Animals National Research Council 2011-01-27 A respected resource for decades, the *Guide for the Care and Use of Laboratory Animals* has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The *Guide for the Care and Use of Laboratory Animals* provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

The Journal of NIH Research 1996

Imaging Anatomy Brain and Spine, E-Book Anne G. Osborn 2020-04-28 This richly illustrated and superbly organized text/atlas is an excellent point-of-care resource for practitioners at all levels of experience and training. Written by global leaders in the field, *Imaging Anatomy: Brain and Spine* provides a thorough understanding of the detailed normal anatomy that underlies contemporary imaging. This must-have reference employs a templated, highly formatted design; concise, bulleted text; and state-of-the-art images throughout that identify the clinical entities in each anatomic area. Features more than 2,500 high-resolution images throughout, including 7T MR, fMRI, diffusion tensor MRI, and multidetector row CT images in many planes, combined with over 300 correlative full-color anatomic drawings that show human anatomy in the projections that radiologists use. Covers only the brain and spine, presenting multiplanar normal imaging anatomy in all pertinent modalities for an unsurpassed, comprehensive point-of-care clinical reference. Incorporates recent, stunning advances in imaging such as 7T and functional MR imaging, surface and segmented anatomy, single-photon emission computed tomography (SPECT) scans, dopamine transporter (DAT) scans, and 3D quantitative volumetric scans. Places 7T MR images alongside 3T MR images to highlight the benefits of using 7T MR imaging as it becomes more widely available in the future. Presents essential text in an easy-to-digest, bulleted format, enabling imaging specialists to find quick answers to anatomy questions encountered in daily practice.

