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Sexual Reproduction in Animals and Plants Hitoshi Sawada 2014-02-07 This book contains the proceedings of the International Symposium on the Mechanisms of Sexual Reproduction in Animals and Plants, where many plant and animal reproductive biologists gathered to discuss their recent progress in investigating the shared mechanisms and factors involved in sexual reproduction. This now is the first book that reviews recent progress in almost all fields of plant and animal fertilization. It was recently reported that the self-sterile mechanism of a hermaphroditic marine invertebrate (ascidian) is very similar to the self-incompatibility system in flowering plants. It was also found that a male factor expressed in the sperm cells of flowering plants is involved in gamete fusion not only of plants but also of animals and parasites. These discoveries have led to the consideration that the core mechanisms or factors involved in sexual reproduction may be shared by animals, plants and unicellular organisms. This valuable book is highly useful for reproductive biologists as well as for biological scientists outside this field in understanding the current progress of reproductive biology.

The Elasmobranch Husbandry Manual Mark F. L. Smith 2004

The Bariatric Bible CAROL. BOWEN BALL 2019-04-30 This comprehensive guide offers advice on the types of surgery on offer and highlights the many diets that are required prior to surgery. Its main focus is on advice and recipes for after surgery to help the post-op patient maximise their best chance of long-term success with weight-loss and better health.

WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues E. Campo 2017-09-18 WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues is a Revised Fourth Edition of the WHO series on histological and genetic typing of human tumours. This authoritative, concise reference provides an international standard for oncologists and pathologists and will serve as an indispensable guide for use in the design of studies monitoring response to therapy and clinical outcome. Diagnostic criteria, pathological features, and associated genetic alterations are described in a strictly disease-oriented manner. Sections on all recognized neoplasms and their variants further include new ICD-O codes, epidemiology, clinical features, macroscopy, prognosis, and predictive factors. This classification, prepared by 132 authors from 23 countries, contains about 1300 color images and tables and more than 4500 references.

Soil Testing and Plant Analysis Robert Lee Westerman 1990 This book summarizes the current knowledge and experiences on the use of soil testing and plant analysis as a diagnostic tool for assessing nutritional requirements of crops, efficient fertilizer use, saline-sodic conditions, and toxicity of metals. Discussions on analytical instrumentation used in soil testing, plant analysis, and data processing are included.

Tietz Textbook of Clinical Chemistry and Molecular Diagnostics Nader Rifai 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, 6th Edition provides the most current and authoritative guidance on selecting, performing, and evaluating the results of new and established laboratory tests. This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know, including: analytical criteria for the medical usefulness of laboratory tests, variables that affect tests and results, laboratory medicine, applications of statistical methods, and most importantly clinical utility and interpretation of laboratory tests. It is THE definitive reference in clinical chemistry and molecular diagnostics, now fully searchable and with quarterly content updates, podcasts, clinical cases, animations, and extended content online through Expert Consult. Analytical criteria focus on the medical usefulness of laboratory procedures. Reference ranges show new approaches for establishing these ranges — and provide the latest information on this topic. Lab management and costs gives students and chemists the practical information they need to assess costs, allowing them to do their job more efficiently and effectively. Statistical methods coverage provides you with information critical to the practice of clinical chemistry. Internationally recognized chapter authors are considered among the best in their field. Two-color design highlights important features, illustrations, and content to help you find information easier and faster. NEW! Internationally recognized chapter authors are considered among the best in their field. NEW! Expert Consult features fully searchable text, quarterly content updates, clinical case studies, animations, podcasts, atlases, biochemical calculations, multiple-choice questions, links to Medline, an image collection, and audio interviews. You will now enjoy an online version making utility of this book even greater. UPDATED! Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value. NEW! Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation. NEW! Standard and international units of measure make this text appropriate for any user — anywhere in the world. NEW! 22 new chapters that focus on applications of mass spectrometry, hematology, transfusion medicine, microbiology, biobanking, biomarker utility in the pharmaceutical industry and more! NEW! Expert senior editors, Nader Rifai, Carl Wittwer and Rita Horvath, bring fresh perspectives and help ensure the most current information is presented. UPDATED! Thoroughly revised and peer-reviewed chapters provide you with the most current information possible.

Palliative Medicine Handbook Ian N. Back 2001

Book Of Abstracts Of The 57th Annual Meeting Of The European Association For Animal Production Ynze van der Honing 2006-08 www.wageningenacademic.com/eaap2006

Primary Productivity of the Biosphere H. Lieth 2012-12-06 The period since World War II, and especially the last decade influenced by the International Biological Program, has seen enormous growth in research on the function of ecosystems. The same period has seen an exponential' rise in environmental problems including the capacity of the Earth to support man's population. The concern extends to man's effects on the "biosphere"-the film of living organisms on the Earth's surface that supports man. The common theme of ecologic research and environmental concerns is primary production the binding of sunlight energy into organic matter by plants that supports all life. Many results from the IBP remain to be synthesized, but enough data are available from that program and other research to develop a convincing sum mary of the primary production of the biosphere-the purpose of this book. The book had its origin in the parallel interests of the two editors and Gene E. Likens, which led them to prepare a symposium on the topic at the Second Biological Congress of the American Institute of Biological Sciences in Miami, Florida, October 24, 1971. Revisions of the papers presented at that symposium appear as Chapters 2, 8, 9, 10, and 15 in this book. We have added other chapters that complement this core; these include discussion and evaluation of methods for measuring productivity and regional production, current findings on tropical productivity, and models of primary productivity.

Book of Abstracts of the 65th Annual Meeting of the European Association for Animal Production EAAP scientific committee 2014-08-13 This Book of Abstracts is the main publication of the 65th Annual Meeting of the European Federation for Animal Science 2014 in Copenhagen, Denmark. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Important problems were also discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition,

Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems.

Copper and Bronze in Art David A. Scott 2002 This is a review of 190 years of literature on copper and its alloys. It integrates information on pigments, corrosion and minerals, and discusses environmental conditions, conservation methods, ancient and historical technologies.

C-C Bond Activation Guangbin Dong 2014-09-18 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. Review articles for the individual volumes are invited by the volume editors. Readership: research chemists at universities or in industry, graduate students

Handbook of Industrial Drying Arun S. Mujumdar 2006-11-08 Still the Most Complete, Up-To-Date, and Reliable Reference in the FieldDrying is a highly energy-intensive operation and is encountered in nearly all industrial sectors. With rising energy costs and consumer demands for higher quality dried products, it is increasingly important to be aware of the latest developments in industrial drying technolog **Sustainable Agriculture–Beyond Organic Farming** Sean Clark 2018-07-17 This book is a printed edition of the Special Issue "Sustainable Agriculture–Beyond Organic Farming" that was published in Sustainability

Maintenance and Repair of Laboratory, Diagnostic Imaging, and Hospital Equipment WHO 1994-12 A practical guide to the maintenance and repair of essential laboratory and hospital equipment. Intended for use in institutions that do not have specially trained technicians or engineers the book responds to the situation frequently seen in developing countries where much of the equipment is imported and adequate information on maintenance and repair is rarely provided by suppliers. With these special needs in mind the manual aims to help staff using specific types of equipment to understand basic principles of construction and operation adopt good working practices avoid common errors perform routine maintenance and spot the early signs of defects or deterioration. Advice on equipment repair concentrates on common causes of problems that can be solved without expertise in engineering. Throughout the manual line drawings illustrate features of construction and design while numerous checklists offer advice on periodic inspection and cleaning good working practices and the essential do's don'ts must's and never's of routine operation and maintenance. Information ranges from the steps to follow when recharging batteries through advice on how to protect microscopes in hot climates to instructions for changing a blown fuse in an ultrasound scanner. Basic safety procedures for protecting staff as well as patients are also described. The most extensive chapter covers the maintenance and repair of basic laboratory equipment moving from autoclaves and incubators to cell counters and systems for water purification. The remaining chapters describe the correct use maintenance and repair of diagnostic equipment anaesthetic and resuscitation equipment operating room equipment and ultrasound and X-ray diagnostic equipment.

Aquaculture Genome Technologies Zhanjiang (John) Liu 2008-02-28 Genomics is a rapidly growing scientific field with applications ranging from improved disease resistance to increased rate of growth. Aquaculture Genome Technologies comprehensively covers the field of genomics and its applications to the aquaculture industry. This volume looks to bridge the gap between a basic understanding of genomic technology and its practical use in the aquaculture industry.

Basic Photography Michael John Langford 1986 Basic Photography is an international bestseller with a long established reputation as the introductory textbook for photography. Initially published over thirty years ago the book has been re-written & revised regularly, & translated into four foreign language editions. It remains a classic reference source for students & newcomers to photography of all ages.

Fresh-Cut Fruits and Vegetables Olusola Lamikanra 2002-02-14 Fresh-cut Fruits and Vegetables: Science, Technology, and Market provides a comprehensive reference source for the emerging fresh-cut fruits and vegetables industry. It focuses on the unique biochemical, physiological, microbiological, and quality changes in fresh-cut processing and storage and on the distinct equipment design, packaging requirements, production economics, and marketing considerations for fresh-cut products. Based on the extensive research in this area during the past 10 years, this reference is the first to cover the complete spectrum of science, technology, and marketing issues related to this field, including production, processing, physiology, biochemistry, microbiology, safety, engineering, sensory, biotechnology, and economics. ABOUT THE EDITOR: Olusola Lamikanra, Ph.D., is a Research Chemist and Lead Scientist at the U.S. Department of Agriculture, Agricultural Research Service, Southern Regional Research Center, New Orleans, Louisiana. He received his B.S. degree from the University of Lagos, Nigeria, and his Ph.D. from the University of Leeds, England. He was Professor in the Division of Agricultural Sciences and Director of the Center for Viticultural Science and Small Farm Development at Florida A&M University, Tallahassee. Dr. Lamikanra is the author of more than 100 publications.

Handbook of Minerals as Nutritional Supplements Robert A. DiSilvestro 2004-09-29 Mineral supplements are receiving a great deal of attention and experiencing a tremendous period of growth. Despite their popularity, questions continue to arise regarding the research behind their claims, the efficacy of different forms, and their overall safety. It is critical for the health care community and the general public to have an unbiased source of authoritative information. Handbook of Minerals as Nutritional Supplements provides a comprehensive presentation and interpretation of the current state of research on various mineral supplements. It discusses the science behind the major minerals, the latest research on the mineral's ability to correct deficiencies that may compromise health, and some of the popular health claims. Each chapter focuses on a particular mineral and features the same headings, ensuring that the retrieval of information is quick and easy. As the first book on supplements written by a university mineral researcher specifically for the biomedical research and professional health care community, the information is technical enough to satisfy a biomedical audience, yet avoids jargon used mainly by mineral specialists. The author presents various perspectives on controversial issues, and then offers his knowledgeable opinion on the best course of action, all in an effort to provide guidance on the wise use of mineral supplements.

Volcanic Unrest Joachim Gottsmann 2018-12-18 This open access book summarizes the findings of the VUELCO project, a multi-disciplinary and cross-boundary research funded by the European Commission's 7th framework program. It comprises four broad topics: 1. The global significance of volcanic unrest 2. Geophysical and geochemical fingerprints of unrest and precursory activity 3. Magma dynamics leading to

unrest phenomena 4. Bridging the gap between science and decision-making Volcanic unrest is a complex multi-hazard phenomenon. The fact that unrest may, or may not lead to an imminent eruption contributes significant uncertainty to short-term volcanic hazard and risk assessment. Although it is reasonable to assume that all eruptions are associated with precursory activity of some sort, the understanding of the causative links between subsurface processes, resulting unrest signals and imminent eruption is incomplete. When a volcano evolves from dormancy into a phase of unrest, important scientific, political and social questions need to be addressed. This book is aimed at graduate students, researchers of volcanic phenomena, professionals in volcanic hazard and risk assessment, observatory personnel, as well as emergency managers who wish to learn about the complex nature of volcanic unrest and how to utilize new findings to deal with unrest phenomena at scientific and emergency managing levels. This book is open access under a CC BY license.

Cassava flour and starch: progress in research and development D. Dufour 1996

Live Feeds in Marine Aquaculture Josianne Støttrup 2008-04-15 As the expansion in world aquaculture continues at a very high rate, so does the need for information on feeding of cultivated fish and shellfish. In the larval and juvenile phases of many species, the use of manufactured feed is not possible. This important book covers in detail the biology and culture of the main live prey and microalgae used as feeds in the aquaculture of major commercial species including shrimps, sea bass, halibut, cod and bivalves. Contents include comprehensive details of the status of marine aquaculture in relation to live prey, and chapters covering the biology, production, harvesting, processing and nutritional value of microalgae and the main prey species: rotifers, *Artemia* and copepods. The editors have drawn together an impressive international team of contributors, providing a work that is set to become the standard reference and practical guide on the subject for many years to come. Live Feeds in Marine Aquaculture is an essential purchase for anyone involved in marine aquaculture, including fish farmers, researchers, and personnel in feed and equipment companies supplying the aquaculture trade. An extremely valuable tool as a reference and practical manual for students and professionals alike; libraries in all universities and research establishments where biological and aquatic sciences and aquaculture are studied and taught, should have copies available on their shelves.

The Wankel Engine: Design, Development, Applications Jan P. Norbye 1971

Unearthly Disclosure Timothy Good 2011-02-28 Unearthly Disclosure is a story of alien bases, alien contacts and abductions, genetic mutants, animal mutilations, and government paranoia. Here, Timothy Good, one of the world's most respected authorities on the alien phenomenon, reveals for the first time sensational information provided to him by high-level military and scientific sources, who confirm that aliens have established subterranean and submarine bases on Earth and that extra-terrestrial contact has been made with a select group in the US military and scientific intelligence community. Among numerous revelations in this book are those involving the alien creature photographed by Filiberto Caponi in Italy. The author spent several years investigating this controversial case and commissioned an Expert Witness checked by the Law Society to analyse Caponi's astonishing photographs. Published for the first time, this unique story forms the central section of Unearthly Disclosure.

Psychological Operations in Guerrilla Warfare Tayacán 2021-04-10 "Psychological Operations in Guerrilla Warfare" by Tayacán (translated by Joanne Omang). Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten—or yet undiscovered gems—of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Vitamin C in Health and Disease Anitra C. Carr 2018-08-09 This book is a printed edition of the Special Issue "Vitamin C in Health and Disease" that was published in *Nutrients*

Ewing's Analytical Instrumentation Handbook, Fourth Edition Nelu Grinberg 2019-02-21 This handbook is a guide for workers in analytical chemistry who need a starting place for information about a specific instrumental technique. It gives a basic introduction to the techniques and provides leading references on the theory and methodology for an instrumental technique. This edition thoroughly expands and updates the chapters to include concepts, applications, and key references from recent literature. It also contains a new chapter on process analytical technology.

Archaeology in Practice Jane Balme 2009-02-09 Archaeology in Practice: A Student Guide to Archaeological Analyses offers students in archaeology laboratory courses a detailed and invaluable how-to manual of archaeological methods and provides insight into the breadth of modern archaeology. Written by specialists of material analyses, whose expertise represents a broad geographic range Includes numerous examples of applications of archaeological techniques Organized by material types, such as animal bones, ceramics, stone artifacts, and documentary sources, or by themes, such as dating, ethics, and report writing Written accessibly and amply referenced to provide readers with a guide to further resources on techniques and their applications Enlivened by a range of boxed case studies throughout the main text

Practical Food Microbiology Diane Roberts 2008-04-15 The main approaches to the investigation of food microbiology in the laboratory are expertly presented in this, the third edition of the highly practical and well-established manual. The new edition has been thoroughly revised and updated to take account of the latest legislation and technological advances in food microbiology, and offers a step-by-step guide to the practical microbiological examination of food in relation to public health problems. It provides 'tried and tested' standardized procedures for official control laboratories and those wishing to provide a competitive and reliable food examination service. The Editors are well respected, both nationally and internationally, with over 20 years of experience in the field of public health microbiology, and have been involved in the development of food testing methods and microbiological criteria. The Public Health Laboratory Service (PHLS) has provided microbiological advice and scientific expertise in the examination of food samples for more than half a century. The third edition of Practical Food Microbiology: Includes a rapid reference guide to key microbiological tests for specific foods Relates microbiological assessment to current

legislation and sampling plans Includes the role of new approaches, such as chromogenic media and phage testing Discusses both the theory and methodology of food microbiology Covers new ISO, CEN and BSI standards for food examination Includes safety notes and hints in the methods

Heavy Metals in Soils Brian J. Alloway 2012-07-18 This third edition of the book has been completely re-written, providing a wider scope and enhanced coverage. It covers the general principles of the natural occurrence, pollution sources, chemical analysis, soil chemical behaviour and soil-plant-animal relationships of heavy metals and metalloids, followed by a detailed coverage of 21 individual elements, including: antimony, arsenic, barium, cadmium, chromium, cobalt, copper, gold, lead, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, tin, tungsten, uranium, vanadium and zinc. The book is highly relevant for those involved in environmental science, soil science, geochemistry, agronomy, environmental health, and environmental engineering, including specialists responsible for the management and clean-up of contaminated land.

Bioassay Techniques for Drug Development Atta-ur-Rahman 2001-10-04 The goal of an activity-directed isolation process is to isolate bioactive compounds which may provide structural leads of therapeutic importance. Whereas the traditional process of drug development is long and expensive, simple and rapid bioassays can serve as the starting point for drug discovery. This book presents a range of "bench top" bioassays

Handbook for the Analysis of Micro-Particles in Archaeological Samples Amanda G. Henry 2020-07-07 This handbook provides a resource for those already familiar with some kinds of micro-particles who wish to learn more about others, or for those just starting out in the study of microremains who wish to have a broad understanding about microscopic archaeology. Topics covered in this handbook include diatom microfossils, starch granules, pollen grains, phytoliths, natural fibers, volcanic glass, minerals, insect remains, and feathers. Archaeological investigations increasingly rely on specialist identification of microscopic remnants found in sites. These micro-particles can provide information about the site environment and human activities that may not be apparent from artifacts and materials preserved on the macro-scale, and have given us new, and often high-profile, information about our past. The investigation of this "invisible archaeology" - that is, invisible to the naked eye - is still somewhat new, and generally each kind of micro-particle is studied individually. Researchers become experts in a narrow range of micro-particle types, but may be less familiar with, or even completely unaware of, the multitude of other forms that are frequently encountered in archaeological samples. This handbook's accessible approach is suitable for those at the beginner level.

Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science Scientific Committee 2019-08-26 This Book of Abstracts is the main publication of the 70th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision Livestock Farming.

Heavy Metals in Soils B. J. Alloway 1995 Heavy metals in soils continue to receive increasing attention due to the growing scientific and public awareness of environmental issues and the development of analytical techniques to measure their concentrations accurately. Building on the success and acclaim of the first edition, this book continues to provide an up-to-date, balanced and comprehensive review of the subject in two sections: the first providing an introduction to the metals chemistry, sources and methods used for their analysis; and the second containing chapters dealing with individual elements in detail.

Tuberculosis Laboratory Biosafety Manual World Health Organization 2012 This manual was developed from the Expert Group meeting. The recommendations are based on assessments of the risks associated with different technical procedures performed in different types of TB laboratories; the manual describes the basic requirements for facilities and practices, which can be adapted to follow local or national regulations or as the result of a risk assessment. Risk assessments require careful judgement: on the one hand, underestimating risks may lead to laboratory staff being exposed to biological hazards but, on the other hand, implementing more rigorous risk mitigation measures than are needed may result in an unnecessary burden on laboratory staff and higher costs to establish and maintain the laboratory's infrastructure. The Metals Translator 1996

Properties and Management of Soils in the Tropics Pedro A. Sanchez 2019-01-31 Long-awaited second edition of classic textbook, brought completely up to date, for courses on tropical soils, and reference for scientists and professionals.

Guidelines for Safe Recreational Water Environments: Coastal and fresh waters World Health Organization 2003 The new guidelines are meant to protect public health, help evaluate development projects near freshwater and recreational sites and assess potential health aspects of recreational projects.

Technical Guidance Document in Support of Commission Directive 93/67/EEC on Risk Assessment for New Notified Substances and Commission Regulation (EC) No 1488/94 on Risk Assessment for Existing Substances European Commission 1996

Organic Fertilizers Rajeev Pratap Singh 2012 Organic fertiliser refers to materials used as fertiliser that occur regularly in nature, usually as a by product or end product of a naturally occurring process. Organic fertilisers such as manure have been used in agriculture for thousands of years; ancient farmers did not understand the chemistry involved, but they did recognise the benefit of providing their crops with organic material. Interest in organic farming is growing world-wide as sustainable agricultural practice nowadays. Organic fertilisers are sustained sources of nutrients due to slow release during decomposition. By increasing soil organic matter, organic farming can reinstate the natural fertility of the damaged soil, which will improve the crop productivity to feed the growing population. Organic fertilisers enhance the natural soil processes, which have long-term effects on soil fertility. The book is a very valuable compilation in this direction.