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Accelerated Plant Breeding, Volume 1

"A fascinating, timely, and often disturbing history of how underground do-it-yourself weapons manuals have influenced violent radicalism, and how the state has responded"--

Natural Communities of New Hampshire

Computers have become an integral part of medical imaging systems and are used for everything from data acquisition and image generation to image display and analysis. As the scope and complexity of imaging technology steadily increase, more advanced techniques are required to solve the emerging challenges. Biomedical Image Analysis demonstr

More Than You Wanted to Know

A contribution towards making this increasingly valuable technology accessible to researchers, including the students, post-doctoral scholars, and technicians gathering the knowledge inherent in this integration between analysis and physical isolation/purification methodologies. A step-by-step approach to the methodology for measuring various attributes demonstrated in the particular cells of interest is provided, as is a myriad of resources to fuel the curiosity and answer

questions of both new and adept users. This book stems from the editors' experiences managing flow cytometry/cell sorting core facilities for the emerging researchers, in particular in developmental, cellular, and molecular biology.

Lattice

This book constitutes the refereed proceedings of the 7th Security Research Conference, Future Security 2012, held in Bonn, Germany, in September 2012. The 78 revised full papers presented were carefully reviewed and selected from 137 submissions. The papers are organized in topical sections on supply chain and critical infrastructure protection; security situational awareness; crisis management; security for critical infrastructure and urban areas; sensor technology; social, psychological and political aspects; cyber defense and information security; maritime and border security; detection of hazardous materials; food chain security; aviation security; ergonomic aspects.

Biotechnologies for Plant Mutation Breeding

Nutrition plays a key role in prevention of cardiovascular disease, the leading cause of death worldwide. Diet influences a broad spectrum of cardiometabolic risk factors, notably a cluster including excess adiposity, dyslipidemia, impaired glucose metabolism and high blood pressure. In the face of the rapidly increasing incidence of obesity and diabetes, maintaining cardiometabolic health through adoption of a healthy lifestyle is a top public health priority. In this book, *Nutrition and Cardiometabolic Health*, international experts present state-of-the-art scholarly reviews of dietary and lifestyle effects on metabolic systems associated with cardiovascular health and disease. It covers a broad range of topics including biological and behavioral processes regulating food intake; lifestyle and surgical approaches to weight loss; nutritional considerations for optimal cardiometabolic health across the lifespan; the relationship of macronutrients, whole foods and dietary patterns to diabetes and cardiovascular disease; and diet as a modulator of gene expression, epigenetics and the gut microbiome and the relationship of these traits to disorders of metabolism. This book provides its readers with an authoritative view of the present state of knowledge of dietary effects on cardiometabolic health and will be of interest to nutrition and healthcare professionals alike.

Positive Mental Health, Fighting Stigma and Promoting Resiliency for Children and Adolescents

This book charts the take-up of IT in Britain, as seen through the eyes of one company. It examines how the dawn of the digital computer age in Britain took place for different applications, from early government-sponsored work on secret defence projects, to the growth of the market for Elliott computers for civil applications. Features: charts the establishment

of Elliott's Borehamwood Research Laboratories, and the roles played by John Coales and Leon Bagrit; examines early Elliott digital computers designed for classified military applications and for GCHQ; describes the analogue computers developed by Elliott-Automation; reviews the development of the first commercial Elliot computers and the growth of applications in industrial automation; includes a history of airborne computers by a former director of Elliott Flight Automation; discusses the computer architectures and systems software for Elliott computers; investigates the mergers, takeovers and eventual closure of the Borehamwood laboratories.

Biological and Pharmaceutical Applications of Nanomaterials

Overuse injuries of the musculoskeletal system are common occurrences. Yet most existing volumes on cumulative trauma disorders deal with the subject from an ergonomic and occupational therapy standpoint, and do not provide the all-encompassing synopsis that physicians demand. *Overuse Injuries of the Musculoskeletal System, Second Edition*, answers the need by presenting a complete overview of the methods for diagnosing and treating the overuse injuries that affect the musculoskeletal system as a whole. Each chapter includes the definition, origins, clinical picture and diagnostics, and treatment for the given injury. The book goes beyond diagnosis and treatment by identifying etiological factors and discussing ways to prevent overuse injuries. This new edition retains the successful systematic format that made the first edition a bestseller and an invaluable tool for orthopaedists, physical therapists, rheumatologists, radiologists and sports medicine practitioners. This version includes a new chapter on radiologic diagnosis, new chapter on overuse injuries in female athletes and supplements previously-existing chapters with new material.

Electronic Circuits

Completely revised and updated, *Developmental and Reproductive Toxicology: A Practical Approach, Second Edition* draws together valuable information typically scattered throughout the literature, plus some not previously published, into one complete resource. In addition to the traditional aspects of developmental toxicity testing, the book covers evaluating and interpreting data. Originally titled *Handbook of Developmental Toxicology*, the second edition's new name reflects significant changes in its content and scope. New coverage in the Second Edition: Genomics and proteomics Tests for endocrine disruptors Testing for male and female reproductive toxicity Extensive treatment of the significance, reliability, and interpretation of developmental and reproductive toxicity data Toxicity testing in neonatal and juvenile animals Postnatal developmental milestones FDA perspective on risk assessment Extensive glossaries of developmental defect terminology Previous books on this subject have largely been academically oriented and not intended to guide the practicing developmental or reproductive toxicologist. Useful and informative, this book blends the theoretical foundation with insights gained from hands-on experience. It includes tables of comparative developmental milestones - both pre- and

postnatal, glossaries of descriptive terms used in developmental toxicity evaluation, and both US and international regulatory guidelines. Bridging the gap between theory and application, this is a handy single-source of essential information to use in planning, conducting, and interpreting studies.

Overuse Injuries of the Musculoskeletal System

This is a concise, systematic and complete treatment of the design and construction of pile foundations. Discusses pile behavior under various loadings and types of piles and their installation, including consideration of soil parameters. It provides step-by-step design procedures for piles subject to vertical loading and pullout, lateral, inclined and eccentric loads, or dynamic loads, and for piles in permafrost. Also describes load test procedures and their interpretation and buckling of long, slender piles with and without supported length. The closing chapter presents case histories of prediction and performance of piles and pile groups. Includes numerous solved problems.

Color Imaging

Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work. A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.

The Psychophysiology Primer

Starting with the basics, this guide leads the reader through the process of reloading with ease. Perfect for beginners and a

great refresher for experienced reloaders, the book first discusses all the necessary tools and accessories needed to get started, then goes through step-by-step instructions and safety tips for loading your own metallic cartridges and shotshells. Helpful illustrations guide readers through each step and make the process easy to understand. The ABC's of Reloading covers all aspects of the hobby, from benchrest loading techniques, to ballistic software, to competition and hunting loads and more. It also includes a comprehensive directory of reloading manufacturers. The guide carefully pieces together steps and techniques for reloading into an understandable process, outlining the basic procedures and providing information on cartridge cases, primers, powders, bullets, equipment and much more, putting beginners on the road to becoming experts!

History of California

This book provides the reader with an understanding of what color is, where color comes from, and how color can be used correctly in many different applications. The authors first treat the physics of light and its interaction with matter at the atomic level, so that the origins of color can be appreciated. The intimate relationship between energy levels, orbital states, and electromagnetic waves helps to explain why diamonds shimmer, rubies are red, and the feathers of the Blue Jay are blue. Then, color theory is explained from its origin to the current state of the art, including image capture and display as well as the practical use of color in disciplines such as computer graphics, computer vision, photography, and film.

The BAG

Many people have high blood pressure for years without knowing it. High blood pressure is serious, even deadly. Uncontrolled high blood pressure can lead to stroke, heart attack, heart failure or kidney failure. This is why high blood pressure is often called the "silent killer". This book is well written, understandable and offers valuable information on many topics surrounding high blood pressure, diet, medications, exercise, as well as alternative therapies and provides the essence of the subject covering the technical background of high blood pressure. The book includes a well-written overview of factors that lead to high blood pressure, plus tips and helpful suggestions for improving your lifestyle. It seeks to enable you to live longer and better with high blood pressure or help prevent it if you are at risk. This easy to understand book focusses on what you can do to better manage high blood pressure and keep it at a safe level. Within these pages you will find answers to your questions about factors that lead to high blood pressure plus tips and helpful suggestions for improving your lifestyle.

Nutrition and Cardiometabolic Health

Biomedical Natural Language Processing is a comprehensive tour through the classic and current work in the field. It

discusses all subjects from both a rule-based and a machine learning approach, and also describes each subject from the perspective of both biological science and clinical medicine. The intended audience is readers who already have a background in natural language processing, but a clear introduction makes it accessible to readers from the fields of bioinformatics and computational biology, as well. The book is suitable as a reference, as well as a text for advanced courses in biomedical natural language processing and text mining.

The Wrong Hands

This book is open access under a CC BY-NC 2.5 license. This book offers 19 detailed protocols on the use of induced mutations in crop breeding and functional genomics studies, which cover topics including chemical and physical mutagenesis, phenotypic screening methods, traditional TILLING and TILLING by sequencing, doubled haploidy, targeted genome editing, and low-cost methods for the molecular characterization of mutant plants that are suitable for laboratories in developing countries. The collection of protocols equips users with the techniques they need in order to start a program on mutation breeding or functional genomics using both forward and reverse-genetic approaches. Methods are provided for seed and vegetatively propagated crops (e.g. banana, barley, cassava, jatropha, rice) and can be adapted for use in other species.

Future Security

This book highlights new advances in biometrics using deep learning toward deeper and wider background, deeming it “Deep Biometrics”. The book aims to highlight recent developments in biometrics using semi-supervised and unsupervised methods such as Deep Neural Networks, Deep Stacked Autoencoder, Convolutional Neural Networks, Generative Adversary Networks, and so on. The contributors demonstrate the power of deep learning techniques in the emerging new areas such as privacy and security issues, cancellable biometrics, soft biometrics, smart cities, big biometric data, biometric banking, medical biometrics, healthcare biometrics, and biometric genetics, etc. The goal of this volume is to summarize the recent advances in using Deep Learning in the area of biometric security and privacy toward deeper and wider applications. Highlights the impact of deep learning over the field of biometrics in a wide area; Exploits the deeper and wider background of biometrics, such as privacy versus security, biometric big data, biometric genetics, and biometric diagnosis, etc.; Introduces new biometric applications such as biometric banking, internet of things, cloud computing, and medical biometrics.

Plant Breeding in the Omics Era

Nuts and dried fruits are part of our daily diet. They are consumed whole or as ingredients of many food products such as muffins, cereals, chocolates, energy bars, breads, and cookies, among others. *Health Benefits of Nuts and Dried Fruits* provides a comprehensive overview of the literature on the health benefits of nuts and dried fruits. The book summarizes the current state of knowledge in key research areas and provides ideas for future scientific research and product development. Nuts, a term that comprises tree nuts and peanuts, are highly nutritious, containing health-promoting macronutrients, micronutrients, vitamins, and bioactive phytochemicals; they are one of the edible foods with the highest content in antioxidants. The consumption of nuts is recognized for its health-promoting properties, which ranges from a consistent cholesterol-lowering effect in clinical trials to a robust association with reduced risk of cardiovascular disease and all-cause mortality in prospective studies. In spite of the high energy content of nuts, there is no evidence that their frequent consumption promotes obesity, and they may even help control it. Dried fruits, which serve as important healthful snacks worldwide, are nutritionally equivalent to fresh fruits while providing all of their bioactive components in concentrated form. While the evidence level concerning the health effects of dried fruits lags behind that on nuts, it suggests that individuals who consume dried fruits regularly have a lower risk of cardiovascular disease, obesity, and other non-communicable diseases. Main features of the book concerning nuts and dried fruits:

- Provides detailed information on health effects
- Highlights current regulation and health claims
- Provides updated dietary recommendations
- Describes nutrient absorption and metabolism
- Discusses mechanisms implicated in the health effects

Although this book is intended primarily as a reference, by comprehensively reviewing the current state of knowledge it can guide future research on the topic. Among others, food scientists, biochemists, nutritionists, health professionals, decision makers, and regulatory agencies can draw much benefit from its contents. Hopefully, it will help in public health strategies to promote healthy aging and improve population wellbeing.

Microarray Technology and Its Applications

Cytogenetics plays an important role in understanding the chromosomal and genetic architecture of plant species. *Plant Cytogenetics, Third Edition* follows the tradition of its predecessors presenting theoretical and practical aspects of plant cytogenetics. Chapters describe correct handling of plant chromosomes, methods in plant cytogenetics, cell division, reproduction methods, chromosome nomenclature, karyotype analysis, chromosomal aberrations, genome analysis, transgenic crops, and cytogenetics in plant breeding. This new edition begins with a brief introduction on the historical aspect of cytogenetics and flows directly into handling of plant chromosomes by classical and modern cytological techniques, classical Mendelian Genetics, brief description of cell division, and chromosome identification by karyotype analysis. The comprehension of cytogenetics is incomplete without information on the role of aneuploidy in associating a gene on a particular chromosome, and the book covers these methodologies as a primary topic. Covering classical to modern cytogenetics, the book presents to the reader the crucial role of cytogenetics in improving crops.

The ABC's of Reloading

Treatment Manual for Anorexia Nervosa, Second Edition

The book offers a detailed guide to temporal ordering, exploring open problems in the field and providing solutions and extensive analysis. It addresses the challenge of automatically ordering events and times in text. Aided by TimeML, it also describes and presents concepts relating to time in easy-to-compute terms. Working out the order that events and times happen has proven difficult for computers, since the language used to discuss time can be vague and complex. Mapping out these concepts for a computational system, which does not have its own inherent idea of time, is, unsurprisingly, tough. Solving this problem enables powerful systems that can plan, reason about events, and construct stories of their own accord, as well as understand the complex narratives that humans express and comprehend so naturally. This book presents a theory and data-driven analysis of temporal ordering, leading to the identification of exactly what is difficult about the task. It then proposes and evaluates machine-learning solutions for the major difficulties. It is a valuable resource for those working in machine learning for natural language processing as well as anyone studying time in language, or involved in annotating the structure of time in documents.

Transparent Semiconducting Oxides

This book discusses various aspects of different bulk TSO single crystals in terms of thermodynamics; bulk crystal growth using diverse techniques involving gas phase, solution, and melt; and the resulting crystal size, appearance, and structural quality as well as the fundamental properties that were gathered from bulk single crystals. It presents experimental results accompanied by theoretical results, such as band structure and native defects. Combinations of various bulk single crystals along with their properties show great promise in practical device functionality and fabrication. Many TSO-based devices have already been demonstrated in several technical areas, including electronics, optoelectronics, and photovoltaics as well as sensing devices. The book is the first of its kind that brings together a variety of bulk single crystals of scientifically and technically important TSOs along with their properties, which may result in novel devices with unique functionalities.

Plant Cytogenetics

Linum usitatissimum is a widely distributed plant that has a long history of traditional use as both an industrial oil and fiber crop. It is known as linseed in the United Kingdom, or flax in North America. For the last 15 years, there has been a steadily growing interest in the medicinal and nutraceutical value of flax, including experimental evid

In Living Color

The burgeoning demand on the world food supply, coupled with concern over the use of chemical fertilizers, has led to an accelerated interest in the practice of precision agriculture. This practice involves the careful control and monitoring of plant nutrition to maximize the rate of growth and yield of crops, as well as their nutritional value.

Bioactive Foods and Extracts

The field of plant breeding has grown rapidly in the last decade with breakthrough research in genetics and genomics, inbred development, population improvement, hybrids, clones, self-pollinated crops, polyploidy, transgenic breeding and more. This book discusses the latest developments in all these areas but explores the next generation of needs and discoveries including omics beyond genomics, cultivar seeds and intellectual and property rights. This book is a leading-edge publication of the latest results and forecasts important areas of future needs and applications.

Flax

Written by the author of the lattice system, this book describes lattice in considerable depth, beginning with the essentials and systematically delving into specific low level details as necessary. No prior experience with lattice is required to read the book, although basic familiarity with R is assumed. The book contains close to 150 figures produced with lattice. Many of the examples emphasize principles of good graphical design; almost all use real data sets that are publicly available in various R packages. All code and figures in the book are also available online, along with supplementary material covering more advanced topics.

Pile Foundations in Engineering Practice

Plant improvement has shifted its focus from yield, quality and disease resistance to factors that will enhance commercial export, such as early maturity, shelf life and better processing quality. Conventional plant breeding methods aiming at the improvement of a self-pollinating crop, such as wheat, usually take 10-12 years to develop and release of the new variety. During the past 10 years, significant advances have been made and accelerated methods have been developed for precision breeding and early release of crop varieties. This work summarizes concepts dealing with germplasm enhancement and development of improved varieties based on innovative methodologies that include doubled haploidy, marker assisted selection, marker assisted background selection, genetic mapping, genomic selection, high-throughput genotyping, high-throughput phenotyping, mutation breeding, reverse breeding, transgenic breeding, shuttle breeding,

speed breeding, low cost high-throughput field phenotyping, etc. It is an important reference with special focus on accelerated development of improved crop varieties.

Moving Targets

Though there is considerable historical and anecdotal record for the use and efficacy of the cancer preventative properties of vegetables, fruits, and herbs, modern healthcare professionals require scientific evidence and verifiable results to make defensible decisions on the benefits, risks, and value of botanicals and their extracts in the prevention and treatment of cancers. Presenting research-based evidence of the role of herbs and bioactive foods in the prevention and treatment of cancer, *Bioactive Foods and Extracts: Cancer Treatment and Prevention* provides the scientific basis for millennia of empirical evidence. Divided into four sections, the book begins with a look at herbal medicines and bioactive foods in cancer prevention in general including the benefits of Greco-Arabic and Islamic herbal medicine, Indian vegetarian diet, and a range of culinary spices. The second section considers specific bioactive foods in cancer prevention. Chapters include in-depth discussions of phytochemicals and their therapeutic action within the body, curcumin-mediated cellular response, and the mechanism and use of prunes and plums, mushrooms, and tomato-based products. The third section takes a focused look at certain cancers such as colon, prostate, breast, and lung cancer. Substances analyzed include ginseng, pentacyclic triterpenes from olives, cruciferous vegetables, and fruit phenolics, as well as alcohol and its associated risks. The final section investigates non-botanical supplements including vitamin D, calcium, selenium, and probiotics. Providing an important scientific and evidence-based record on an increasingly popular branch of modern healthcare, this indispensable reference brings together the analytical research of modern science and the wisdom of herbal and food based medicine and puts them at your fingertips.

Handbook of Plant Nutrition

Mayo Clinic on High Blood Pressure

The *Psychophysiology Primer* provides a foundational review of the field of psychophysiology to serve as a primer for the novice, enabling rapid familiarisation with the core concepts, or as a quick reference resource for advanced readers.

Soft Computing in Data Science

Perhaps no kind of regulation is more common or less useful than mandated disclosure—requiring one party to a

transaction to give the other information. It is the iTunes terms you assent to, the doctor's consent form you sign, the pile of papers you get with your mortgage. Reading the terms, the form, and the papers is supposed to equip you to choose your purchase, your treatment, and your loan well. More Than You Wanted to Know surveys the evidence and finds that mandated disclosure rarely works. But how could it? Who reads these disclosures? Who understands them? Who uses them to make better choices? Omri Ben-Shahar and Carl Schneider put the regulatory problem in human terms. Most people find disclosures complex, obscure, and dull. Most people make choices by stripping information away, not layering it on. Most people find they can safely ignore most disclosures and that they lack the literacy to analyze them anyway. And so many disclosures are mandated that nobody could heed them all. Nor can all this be changed by simpler forms in plainer English, since complex things cannot be made simple by better writing. Furthermore, disclosure is a lawmakers' panacea, so they keep issuing new mandates and expanding old ones, often instead of taking on the hard work of writing regulations with bite. Timely and provocative, More Than You Wanted to Know takes on the form of regulation we encounter daily and asks why we must encounter it at all.

Automatically Ordering Events and Times in Text

This indispensable manual presents the leading empirically supported treatment approach for adolescents with anorexia nervosa (AN). What sets family-based treatment apart is the central role played by parents and siblings throughout therapy. The book gives practitioners a clear framework for mobilizing parents to promote their child's weight restoration and healthy eating; improving parent-child relationships; and getting adolescent development back on track. Each phase of therapy is described in session-by-session detail. In-depth case illustrations show how to engage clients while flexibly implementing the validated treatment procedures. New to This Edition*Reflects the latest knowledge on AN and its treatment, including additional research supporting the approach.*Clarifies key concepts and techniques.*Chapter on emerging directions in training and treatment dissemination.*Many new clinical strategies.

Deep Biometrics

Biological and Pharmaceutical Applications of Nanomaterials presents the findings of cutting-edge research activities in the field of nanomaterials, with a particular emphasis on biological and pharmaceutical applications. Divided into four sections—nanomaterials for drug delivery, antimicrobial nanomaterials, nanomaterials in biosensors, and safety of nanomaterials—this book: Covers topics such as stimuli-responsive nanostructured silica matrixes, gold nanoparticles, and liposomes for targeting drug delivery and dental applications Describes the use of nanocarriers and nanoparticles as cancer and peptide therapeutics, the influence of surface characteristics on microbial adhesion, and the latest developments in antimicrobial nanostructured polymers for medical applications Discusses recent advances in nanodiagnostic techniques for

infectious agents, chromogenic biosensors for pathogen detection, electrochemical biosensors for detecting DNA damage and genotoxicity, and molecular imaging with quantum dots including surface modifications by polymers for biosensing applications. Featuring contributions from field experts and researchers in industry and academia, *Biological and Pharmaceutical Applications of Nanomaterials* provides state-of-the-art information on nanomaterials and their use in drug delivery, infection control, and biomedicine.

Lipid Technologies and Applications

The production of doubled haploids has become a necessary tool in advanced plant breeding institutes and commercial companies for breeding many crop species. However, the development of new, more efficient and cheaper large scale production protocols has meant that doubled haploids are also recently being applied in less advanced breeding programmes. This Manual was prepared to stimulate the wider use of this technology for speeding and opening up new breeding possibilities for many crops including some woody tree species. Since the construction of genetic maps using molecular markers requires the development of segregating doubled haploid populations in numerous crop species, we hope that this Manual will also help molecular biologists in establishing such mapping populations. For many years, both the Food and Agriculture Organization of the United Nations (FAO) and the International Atomic Energy Agency (IAEA) have supported and coordinated research that focuses on development of more efficient doubled haploid production methods and their applications in breeding of new varieties and basic research through their Plant Breeding and Genetics Section of the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture. The first FAO/IAEA scientific network (Coordinated Research Programme - CRP) dealing with doubled haploids was initiated by the Plant Breeding and Genetics Section in 1986.

Developmental and Reproductive Toxicology

Examines the various forms of evidence used to establish the history and scale of environmental changes during the Quaternary. The evidence is extremely diverse, ranging from landforms and sediments to fossil assemblages and isotope ratios, bringing the book fully up to date since its last publication.

Biomedical Natural Language Processing

It has been stated that our knowledge doubles every 20 years, but that may be an understatement when considering the Life Sciences. A series of discoveries and inventions have propelled our knowledge from the recognition that DNA is the genetic material to a basic molecular understanding of ourselves and the living world around us in less than 50 years. Crucial

to this rapid progress was the discovery of the double-helical structure of DNA, which laid the foundation for all hybridization based technologies. The discoveries of restriction enzymes, ligases, polymerases, combined with key innovations in DNA synthesis and sequencing ushered in the era of biotechnology as a new science with profound sociological and economic implications that are likely to have a dominating influence on the development of our society during this century. Given the process by which science builds on prior knowledge, it is perhaps unfair to single out a few inventions and credit them with having contributed most to this avalanche of knowledge.

Yet, there are surely some that will be recognized as having had a more profound impact than others, not just in the furthering of our scientific knowledge, but by leveraging commercial applications that provide a tangible return to our society. The now famous Polymerase Chain Reaction, or PCR, is surely one of those, as it has uniquely catalyzed molecular biology during the past 20 years, and continues to have a significant impact on all areas that involve nucleic acids, ranging from molecular pathology to forensics. Ten years ago micro-ray technology emerged as a new and powerful tool to study nucleic acid sequences in a highly multiplexed manner, and has since found equally exciting and useful applications in the study of proteins, metabolites, toxins, viruses, whole cells and even tissues.

Doubled Haploid Production in Crop Plants

Positive Mental Health for Children and Adolescents: Fighting Stigma and Promoting Resiliency examines the main mechanisms involved in improving mental health in children and adolescents, including social and biological processes, as well as effective treatments. By taking into account diverse settings and cultures, the book combines academic, research, and clinical contributions and sets forth how it can be translated into effective clinical practice. In addition, the book promotes the study, treatment, care, and prevention of mental and emotional disorders and disabilities involving children, adolescents, and their families, and includes emerging knowledge on mental health problems and good practice in child and adolescent psychiatry as relayed by experts from around the world. Focuses on the empirical evidence base for work in child and adolescent mental health Appraises the available evidence and underscores where it is lacking Demonstrates the implementation of research into practice Highlights the relevance of existing knowledge for clinical management Considers service and policy implications

Biomedical Image Analysis

""Provides a comprehensive review of the major technologies and applications of lipids in food and nonfood uses, including current and future trends. Discusses the nature of lipids, their major sources, and role in nutrition.

Health Benefits of Nuts and Dried Fruits

This book provides an introduction to human visual perception suitable for readers studying or working in the fields of computer graphics and visualization, cognitive science, and visual neuroscience. It focuses on how computer graphics images are generated, rather than solely on the organization of the visual system itself; therefore, the text provides a more direct tie between image generation and the resulting perceptual phenomena. It covers such topics as the perception of material properties, illumination, the perception of pictorial space, image statistics, perception and action, and spatial cognition.

Reconstructing Quaternary Environments

This book constitutes the refereed proceedings of the 4th International Conference on Soft Computing in Data Science, SCDS 2018, held in Bangkok, Thailand, in August 2018. The 30 revised full papers presented were carefully reviewed and selected from 75 submissions. The papers are organized in topical sections on machine and deep learning, image processing, financial and fuzzy mathematics, optimization algorithms, data and text analytics, data visualization.

Visual Perception from a Computer Graphics Perspective

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