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YIJHUI - MCLEAN FITZPATRICK

Sex is the queen of problems in evolutionary biology. Generations of researchers have investigated one of the last remaining evolutionary paradoxes: why sex exists at all. Given that sexual reproduction is costly from an evolutionary point of view, one could wonder why not all animals and plants reproduce asexually. Dozens of contemporary hypotheses attempt to explain the prevalence of sex and its advantages and predict the early extinction of fully asexual lineages. The major theme of this book is: what is the fate of animal and plant groups in which sex is lost? Initial chapters discuss theory behind asexual life: what major disadvantages do asexual groups have to face, what are the genetic and ecological consequences and what does this theory predict for more applied aspects of asexual life, for example in agricultural pests, diseases as well as in cultural crops such as grapes. Cases studies in many animals (focusing on both invertebrates and vertebrates) and plants reveal parallel, but also singularly novel adaptations to the absence of meiosis and syngamy. And last but not least, are asexuals really doomed to early extinction or do genuine ancient asexuals exist? This book assembles contributions from the most important research groups dealing with asexual evolution in eukaryotes. It is a milestone in research on parthenogenesis and will be useful to undergraduate as well as graduate students and to senior researchers in all fields of evolutionary biology, as the paradox of sex remains its queen of problems.

Nanoparticle technology, which handles the preparation, processing, application and characterisation of nanoparticles, is a new and revolutionary technology. It becomes the core of nanotechnology as an extension of the conventional Fine Particle / Powder Technology. Nanoparticle technology plays an important role in the implementation of nanotechnology in many engineering and industrial fields including electronic devices, advanced ceramics, new batteries, engineered catalysts, functional paint and ink, Drug Delivery System, biotechnology, etc.; and makes use of the unique properties of the nanoparticles which are completely different from those of the bulk materials. This new handbook is the first to explain complete aspects of nanoparticles with many application examples showing their advantages and advanced development. There are handbooks which briefly mention the nanosized particles or their related applications, but no handbook describing the complete aspects of nanoparticles has been published so far. The handbook elucidates of the basic properties of nanoparticles and various nanostructural materials with their characterisation methods in the first part. It also introduces more than 40 examples of practical and potential uses of nanoparticles in the later part dealing with applications. It is intended to give readers a clear picture of nanoparticles as well as new ideas or hints on their applications to create new materials or to improve the performance of the advanced functional materials developed with the nanoparticles. * Introduces all aspects of nanoparticle technology, from the fundamentals to applications. * Includes basic information on the preparation through to the characterization of nanoparticles from various viewpoints * Includes information on nanostructures, which play an important role in practical applications.

On a warm summer morning in North Carthage, Missouri, it is Nick and Amy Dunne's fifth wedding anniversary. Presents are being wrapped and plans are being made when Nick's clever and beautiful wife disappears. As the police begin to investigate, the town golden boy parades a series of lies, deceptions, and inappropriate behavior. Nick is oddly evasive, and he's definitely bitter - but is he really a killer?

This book is a compilation of various chapters contributed by a group of leading researchers from different countries and covering up to date information based on published reports and personal experience of authors in the field of cytogenetics. Beginning with the introduction of chromosome, the subsequent chapters on organization of genetic material, karyotype evolution, structural and numerical variations in chromosomes, B-chromosomes and chromosomal aberrations provide an in-depth knowledge and easy understanding of the subject matter. A special feature of the book is the inclusion of a series of chapters on various types of chromosomal aberrations and their impact

on breeding behaviour and crop improvement. The possible mechanism, their consequences and role in genetic analysis has been emphasized in these chapters. A few chapters have also been dedicated on various techniques routinely used in the laboratory by students and researchers. Each chapter ends with an extensive bibliography so that the students and researchers may find it relevant to consult more literature on the subject than a book of this size can offer. The book is intended to fulfill the needs of undergraduate and post graduate students of botany, zoology and agriculture besides, teachers and researchers engaged in the field of genetics, cytogenetics, and molecular genetics. In general the readers will find each chapter of the book informative and easy to understand.

Honey Santana—impassioned, willful, possibly bipolar, self-proclaimed “queen of lost causes”—has a scheme to help rid the world of irresponsibility, indifference, and dinnertime sales calls. She’s taking rude, gullible Relentless, Inc., telemarketer Boyd Shreave and his less-than-enthusiastic mistress, Eugenie—the fifteen-minute-famous girlfriend of a tabloid murderer—into the wilderness of Florida’s Ten Thousand Islands for a gentle lesson in civility. What she doesn’t know is that she’s being followed by her Honey-obsessed former employer, Piejack (whose mismatched fingers are proof that sexual harassment in the workplace is a bad idea). And he doesn’t know he’s being followed by Honey’s still-smitten former drug-running ex-husband, Perry, and their wise-and-protective-way-beyond-his-years twelve-year-old-son, Fry. And when they all pull up on Dismal Key, they don’t know they’re intruding on Sammy Tigertail, a half white-half Seminole failed alligator wrestler, trying like hell to be a hermit despite the Florida State coed who’s dying to be his hostage . . . Will Honey be able to make a mensch of a “greedhead”? Will Fry be able to protect her from Piejack—and herself? Will Sammy achieve his true Seminole self? Will Eugenie ever get to the beach? Will the Everglades survive the wild humans? All the answers are revealed in the delectably outrageous mayhem that propels this novel to its Hiaasen-of-the-highest-order climax. **BONUS:** This edition includes an excerpt from Carl Hiaasen's *Bad Monkey*.

At the 50th Anniversary Meeting of the Institute of Food Technologists the ten most significant innovations in food science developed during the past 50 years were named (Food Technology, September 1989). Among the "Top 10" innovations, controlled atmosphere packaging (CAP) for fruits and vegetables was listed 5th in order of importance. Of course, CAP is a forerunner of MAP (modified atmosphere packaging) in which a variety of food products are packaged under selective mixtures of atmospheric gases, but without the on-going maintenance (control) of the gas mixture. Development of packaging systems and films that are selectively permeable to specific gases has been the key element in the commercialization of controlled and modified atmosphere packaging of foods. It may not be far from the truth to say that since then there has been an explosion of activities around MAP/CAP, especially in research and development into various aspects of this technology. The application of MAP to some bakery products, fresh fruits and salads and fresh meats and meat products has reached a significant level both in Europe and North America. The increasing consumer demand for fresh or near-fresh products and convenient, microwavable foods has added impetus to the growth of MAP/CAP technology. It is, therefore, timely that a comprehensive book that provides scientific background and practical applications of the technology should be written.

An overview of farm-to-fork safety in the preharvest realm Foodborne outbreaks continue to take lives and harm economies, making controlling the entry of pathogens into the food supply a priority. Preharvest factors have been the cause of numerous outbreaks, including *Listeria* in melons, *Salmonella* associated with tomatoes, and Shiga toxin-producing *E.coli* in beef products, yet most traditional control measures and regulations occur at the postharvest stage. Preharvest Food Safety covers a broad swath of knowledge surrounding topics of safety at the preharvest and harvest stages, focusing on problems for specific food sources and food pathogens, as well as new tools and potential solutions. Led by editors Siddhartha Thakur and Kalmia Kniel, a team of expert authors provides insights into critical themes surrounding preharvest food safety, including Challenges specific to meat, seafood, dairy, egg, produce, grain, and nut production Established and

emerging foodborne and agriculture-related pathogens Influences of external factors such as climate change and the growing local-foods trend Regulatory issues from both US and EU perspectives Use of pre- and probiotics, molecular tools, mathematical modeling, and one health approaches Intended to encourage the scientific community and food industry stakeholders to advance their knowledge of the developments and challenges associated with preharvest food safety, this book addresses the current state of the field and provides a diverse array of chapters focused on a variety of food commodities and microbiological hazards.

This publication offers a synthesis of the major factors at play in the global food and agricultural landscape. Statistics are presented in four thematic chapters, covering the economic importance of agricultural activities, inputs, outputs and factors of production, their implications for food security and nutrition and their impacts on the environment. The Yearbook is meant to constitute a primary tool for policy makers, researchers and analysts, as well as the general public interested in the past, present and future path of food and agriculture.

Texts of the past were often not monolingual but were produced by and for people with bi- or multilingual repertoires; the communicative practices witnessed in them therefore reflect ongoing and earlier language contact situations. However, textbooks and earlier research tend to display a monolingual bias. This collected volume on multilingual practices in historical materials, including code-switching, highlights the importance of a multilingual approach. The authors explore multilingualism in hitherto neglected genres, periods and areas, introduce new methods of locating and analysing multiple languages in various sources, and review terminology, theories and tools. The studies also revisit some of the issues already introduced in previous research, such as Latin interacting with European vernaculars and the complex relationship between code-switching and lexical borrowing. Collectively, the contributors show that multilingual practices share many of the same features regardless of time and place, and that one way or the other, all historical texts are multilingual. This book takes the next step in historical multilingualism studies by establishing the relevance of the multilingual approach to understanding language history.

"Clinical Exercise Pathophysiology for Physical Therapy: Examination, Testing, and Exercise Prescription for Movement-Related Disorders is a comprehensive reference created to answer the "why" and the "how" to treat patients with exercise by offering both comprehensive information from the research literature, as well as original patient cases. The chapters present the physiology and pathophysiology for defined patient populations consistent with the American Physical Therapy Association's Guide to Physical Therapy Practice and covers a wide assortment of topics ranging from a review of the cellular metabolic pathways to the discharge summary, with all the connections in between. Patient cases also supplement the chapters and are included throughout to illustrate how understanding the content in each chapter informs physical therapy examination, testing, and treatment. The patient/client management model from the Guide to Physical Therapy Practice defines the structure of the patient cases and the International Classification of Function, Disability, and Health (ICF) model of disablement has been inserted into each patient case. Highlighted "Clinician Comments" appear throughout each patient case to point out the critical thinking considerations. Clinical Exercise Pathophysiology for Physical Therapy: Examination, Testing, and Exercise Prescription for Movement-Related Disorders is a groundbreaking reference for the physical therapy student or clinician looking to understand how physiology and pathophysiology relate to responses to exercise in different patient populations"--Provided by publisher.

This book is an introduction to the world of aroma chemicals, essential oils, fragrances and flavour compositions for the food, cosmetics and pharmaceutical industry. Present technology, the future use of resources and biotechnological approaches for the production of the respective chemical compounds are described. The book has an integrated and interdisciplinary approach on future industrial production and the issues related to this topic.

This is the origin story of technology super heroes: the creators and founders of ARM, the company that is responsible for the processors found inside 95% of the world's mobile devices today. This is

also the evolution story of how three companies - Apple, Samsung, and Qualcomm - put ARM technology in the hands of billions of people through smartphones, tablets, music players, and more. It was anything but a straight line from idea to success for ARM. The story starts with the triumph of BBC Micro engineers Steve Furber and Sophie Wilson, who make the audacious decision to design their own microprocessor - and it works the first time. The question becomes, how to sell it? Part I follows ARM as its founders launch their own company, select a new leader, a new strategy, and find themselves partnered with Apple, TI, Nokia, and other companies just as digital technology starts to unleash mobile devices. ARM grows rapidly, even as other semiconductor firms struggle in the dot com meltdown, and establishes itself as a standard for embedded RISC processors. Apple aficionados will find the opening of Part II of interest the moment Steve Jobs returns and changes the direction toward fulfilling consumer dreams. Samsung devotees will see how that firm evolved from its earliest days in consumer electronics and semiconductors through a philosophical shift to innovation. Qualcomm followers will learn much of their history as it plays out from satellite communications to development of a mobile phone standard and emergence as a leading fabless semiconductor company. If ARM could be summarized in one word, it would be "collaboration." Throughout this story, from Foreword to Epilogue, efforts to develop an ecosystem are highlighted. Familiar names such as Google, Intel, Mediatek, Microsoft, Motorola, TSMC, and others are interwoven throughout. The evolution of ARM's first 25 years as a company wraps up with a shift to its next strategy: the Internet of Things, the ultimate connector for people and devices. Research for this story is extensive, simplifying a complex mobile industry timeline and uncovering critical points where ARM and other companies made fateful and sometimes surprising decisions. Rare photos, summary diagrams and tables, and unique perspectives from insiders add insight to this important telling of technology history.

This unique and innovative title offers a comprehensive exploration of the intersection of ethics, violence, trauma, and trauma surgery. Underscoring that the causes of violence include a wide range of socioeconomic factors, including poverty and the lack of economic opportunity, and that violence often occurs in impoverished and underserved communities, various authors from a wide range of disciplines outline how intentional violence toward another person is multidimensional and complex. Many of the authors use Chicago as a framework for their chapter discussion, but there are similarities in many urban settings throughout the United States and abroad. Part I of the book, Ethical Issues Related to Violence, includes seven chapters that examine ethical issues related to violence. Each of these chapters discusses a different but intersecting aspect of how violence challenges ethical standards in medicine and health. Part II, Ethical Issues Related to Trauma and Trauma Surgery, offers eight chapters that address various aspects of ethical issues related to trauma and trauma surgery. Part III, Additional Concerns Relating to Violence and Trauma, describe a series of issues relating to violence and trauma, including surgical procedures, psychological distress, and geographic disparities in access to trauma care. Developed by nationally renowned thought leaders in the field, Violence, Trauma, and Trauma Surgery is a major and novel contribution to the clinical literature and will be of great interest to all physicians, clinicians, researchers, social scientists, students, policymakers, hospital administrators and community leaders concerned with understanding and improving outcomes relating to violence, trauma, and trauma surgery.

Global health and the increasing incidence of various diseases are a cause for concern, and doctors and scientists reason that the diet, food habits and lifestyle are contributing factors. Processed food has reduced the nutritional value of our diet, and although supplementing foods with various additives is considered an alternative, the long-term impact of this is not known. Many laboratories around the world are working to identify various nutritional components in our daily food and their effect on human health. These have been classified as Nutraceuticals or functional food, and they may have preventive and therapeutic effects in a number of pathologies associated with modern dietary habits and lifestyles. This book addresses various aspects of this issue, revitalizing the discussion and consolidating the latest research on nutritional and functional food and their effects in in-vitro, in-vivo and human clinical studies.

Recent technological advancements, socio-economic trends, and population lifestyle modifications throughout the world indicate the need for foods with increased health benefits. The clear relationship between the food that we eat and our well-being is widely recognized. Today, foods are not only intended to satisfy hunger and provide necessary nutrients: they can also confer additional health benefits, such as preventing nutrition-related diseases and improving physical and mental well-being. This book provides a comprehensive overview of developments in the field of functional

foods and food supplements. Readers will discover new food matrices as innovative natural sources of bioactive compounds endowed with health-promoting properties. Studies on chemical, technological, and nutritional characteristics of healthy food ingredients, analytical methods for monitoring their quality, and innovative formulation strategies are included.

Rose is a princess, a Cinder, and half-human. She is the last one born of her kind, and on her twenty-first birthday, she must enter the woods and travel to find her Prince, as her sisters did before her. ". . . And we will all dance at the Grand Ball," her sisters would always say. But the Human servants are keeping a secret that could prevent the Cinders from reaching their Happily Ever After....Hidden in Rose's dreams and vision are the answers of the past between Cinders and Humans, and she is quickly running out of time trying to solve their hidden messages. She knows the answer lies in her first clue--identifying an animal she has never seen before--that persistent vision of a furry white animal, holding a gold metal object and exclaiming, "Oh dear! Oh dear! I shall be too late!"

This essential handbook for student and practicing plant pathologists has been thoroughly reorganized and updated since the publication of the second edition in 1983. The new edition includes: rearrangement of topics to facilitate use; 49 short succinct chapters, each providing valuable practical information; new topics such as landmarks in plant pathology, survey of sampling procedures, disease evaluation, effects of climate change, biochemical and molecular techniques, epidemic modelling, breeding for resistance, laboratory safety and electronic databases; seven overall sections covering disease recognition and evaluation, causation, diagnosis, investigation, control, general techniques, and presentation of results.

Tendon ailments are a significant cause of morbidity among athletes of all levels and are increasing in prevalence. Their management is often empirical, and para-scientific, only looking at the biological aspects of tendon ailments. This book conveys a comprehensive and concise body of knowledge on the management of tendon problems in sportspeople with practical details of clinical protocols. Tendon Injuries: Basic Science and Clinical Medicine is specifically dedicated to the clinical aspects of tendinopathy and provides the required knowledge and scientific basis for the sports medicine practitioner, orthopedic specialist and student facing upper and lower limb tendon ailments in athletes. A comprehensive review of tendon disorders is given and modern criteria of management outlined to form the basis of effective clinical management of this group of patients.

My stories are fragments of a larger plan, Katherine Anne Porter once wrote. And on another occasion she praised a critic who perceived that all her work, from the very beginning, was part of an "unbroken progression, all related." In Truth and Vision in Katherine Anne Porter's Fiction, Darlene Unrue examines the encompassing themes that underlie Porter's shorter fiction and that combined to create the haunting events of her complex metaphorical novel, Ship of Fools. Porter believed that men and women are compelled toward discovering the truth about their existence, but that the nature of our world makes those truths difficult to discern. In her writing, Unrue finds, Porter explored not only this basic human need to confront the truth, but also the bewilderment and suffering that are so often the results of failing to fulfill that need. Often in Porter's fiction the movement toward truth is obstructed by the hollow beliefs and illusions that abound in the world--by the seductions of ideology and dogmatic religion, by romantic love or the vision of a golden past. Clinging to such illusions, using them to lend a false coherence to their lives, Porter's characters are led away from the hard realization that truth requires accepting the existence of the unknowable at the center of life, and that what is knowable lies within themselves. Drawing on essays, reviews, letters, and notes, as well as on the intricate fabric of the fiction, this study traces Porter's pursuit of the truth through the creation of a body of fiction in which, from fragments of life, she could assemble an honest vision of the world.

Have you ever wondered what makes the Mediterranean diet so healthy? Do you enjoy olives, tomatoes, Chouriço and Mozzarella, basil, rosemary and oregano, grapes, figs, and dates; and would you like to learn more about the substances they contain? Then this book is for you! The Mediterranean diet, designated as an 'Intangible Cultural Heritage of Humanity', has a reputation of being particularly beneficial to your health and for reducing the risk of diseases like cardiovascular disorders. Read this book to find out which chemical compounds contribute to these health benefits. Typical ingredients of the Mediterranean diet include olive oils, fresh and dried vegetables and fruits, cereals, moderate amounts of fish, dairy and meat, and various condiments and spices, typically accompanied by wine and infusions. The book will introduce you to the most typical ingredients, providing information about their use in Mediterranean cuisine and explaining more about

the healthy substances they contain - from their chemistry to their occurrence in the foods and the resulting intake. Summarizing important facts and data from available scientific literature, this book even gives recommendations for guidelines to a healthy diet - guidelines that are becoming more and more important. In recent years, it has been observed that nutritional habits in the geographical area have started to deviate further and further away from the typical Mediterranean nutritional pattern, representing an alarming trend that this book also critically addresses, since the WHO has reported increases in obesity and malnutrition in the Mediterranean area. Illustrations of important chemical compound structures, as well as appetizing photos of select ingredients for Mediterranean dishes, accompany the text.

Wetlands are a vital part of the landscape and ecology of the United States, providing food and shelter for species ranging from the beautiful wood duck to the tiny fairy shrimp. These areas provide critical habitat for fish and wildlife, protect communities from flooding, and recharge groundwater supplies--yet they continue to be destroyed at an alarming rate. A detailed analysis of wetlands management, Wetland Drainage, Restoration, and Repair is a comprehensive guide to the past, present, and future of wetland recovery in the United States. The book includes a historical overview of wetland destruction and repair over the past two hundred years and also serves as a unique resource for anyone, from novice to engineer, interested in the process of wetland restoration. Author Thomas R. Biebighauser draws from his own vast experience in building and repairing more than 950 wetlands across North America. Included are numerous photographs and case studies that highlight successes of past projects. Detailed, step-by-step instructions guide the reader through the planning and implementation of each restoration action. Biebighauser also provides a number of effective strategies for initiating and improving funding for wetlands programs. Wetland Drainage, Restoration, and Repair is essential reading for all who care about and for these important ecosystems.

Michael Chabon is back with a brand-new collection that reinvigorates the stay-up-all-night, edge-of-the-seat, fingernail-biting, page-turning tradition of literary short stories, featuring Margaret Atwood, Stephen King, Peter Straub, David Mitchell, Jonathan Lethem, Heidi Julavits, Roddy Doyle, and more! Margaret Atwood- Lusus Naturae David Mitchell- What You Do Not Know You Want Jonathan Lethem- Vivian Relf Ayelet Waldman - Minnow Steve Erickson- Zeroville Stephen King- Lisey and the Madman Jason Roberts - 7C Heidi Julavits- The Miniaturist Roddy Doyle - The Child Daniel Handler - Delmonico Charles D'Ambrosio - The Scheme of Things Poppy Z. Brite - The Devil of Delivery Street China Mieville- Reports of Certain Events in London Joyce Carol Oates - The Fabled Light-house at Vi-a del Mar Peter Straub - Mr. Aickman's Air Rifle

Everybody knows that digital technology has revolutionised our economy and our lifestyles. But how many of us really understand the drivers behind the technology - the significance of going digital; the miniaturization of circuit boards; the role of venture capital in financing the revolution; the importance of research and development? How many of us understand what it takes to make money from innovative technologies? Should we worry about manufacturing going offshore? What is the role of India and China in the digital economy? Drawing on a lifetime's experience in the industry, as an engineer, a senior manager and as a partner in a venture capital firm, Henry Kressel offers an expert personalized answer to all these questions. He explains how the technology works, why it matters, how it is financed and what the key lessons are for public policy.

Fundamentals of Weed Science provides an introduction to the basic principles of weed science for undergraduate courses. It discusses several aspects of weed biology and control, and traces the history of herbicide development. The book begins with an introduction to weeds, covering their definition, characteristics, harmful aspects, and the cost of weed control. This is followed chapters on weed classification, the uses of weeds, weed biology, weed ecology, allelopathy, the significance of plant competition, weed management and control methods, and biological weed control. Later chapters deal with herbicides the most important weed control tools and the ones with the greatest potential for untoward effects. Students of weed science must understand herbicides and the factors governing their use as well as the potential for misuse. These chapters discuss chemical weed control, the properties and uses of herbicides, factors affecting herbicide performance, herbicide application, herbicide formulation, ecological impact of herbicides, pesticide registration and legislation, weed management systems, and the future of weed science.

Presents advice to librarians on building a children's collection, discussing how to display works and set up a storytelling program, along with a list of one hundred classic and award-winning titles that should be standard to the collection.

In a probing biography of her native land, Ayesha Jalal provides a unique insider's assessment of how the nuclear-armed Muslim nation of Pakistan evolved into a country besieged by military domination and militant religious extremism, and explains why its dilemmas weigh so heavily on prospects for peace in the region.

While there have been many claims of the benefits of teas through the years, and while there is nearly universal agreement that drinking tea can benefit health, there is still a concern over

whether the lab-generated results are representative of real-life benefit, what the risk of toxicity might be, and what the effective-level thresholds are for various purposes. Clearly there are still questions about the efficacy and use of tea for health benefit. This book presents a comprehensive look at the compounds in black, green, and white teas, their reported benefits (or toxicity risks) and also explores them on a health-condition specific level, providing researchers and academics

with a single-volume resource to help in identifying potential treatment uses. No other book on the market considers all the varieties of teas in one volume, or takes the disease-focused approach that will assist in directing further research and studies. Interdisciplinary presentation of material assists in identifying potential cross-over benefits and similarities between tea sources and diseases. Assists in identifying therapeutic benefits for new product development. Includes coverage and comparison of the most important types of tea - green, black and white.