

Kaplan AP Biology 2014-2015

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this handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system focusing on various aspects of the development and application of indicators derived from data on scholarly publications patents and electronic communications the individual chapters written by leading experts discuss theoretical and methodological issues illustrate applications highlight their policy context and relevance and point to future research directions a substantial portion of the book is dedicated to detailed descriptions and analyses of data sources presenting both traditional and advanced approaches it addresses the main bibliographic metrics and indexes such as the journal impact factor and the h index as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society it also presents and critically discusses various national research evaluation systems complementing the sections reflecting on the science system the technology section includes multiple chapters that explain different aspects of patent statistics patent classification and database search methods to retrieve patent related information in addition it examines the relevance of trademarks and standards as additional technological indicators the springer handbook of science and technology indicators is an invaluable resource for practitioners scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance

volume 1 a and b covers international organizations throughout the world comprising their aims activities and events

the large potential of rna sequencing and other omics techniques has contributed to the production of a huge amount of data pursuing to answer many different questions that surround the science s great unknowns this book presents an overview about powerful and cost efficient methods for a comprehensive analysis of rna seq data introducing and revising advanced concepts in data analysis using the most current algorithms a holistic view about the entire context where transcriptome is inserted is also discussed here encompassing biological areas with remarkable technological advances in the study of systems biology from microorganisms to precision medicine

the discovery of noncoding rnas ncRNAs has changed our understanding of genome transcriptome and interactions with proteome in a cell since the discovery of the first microRNA miRNA called lin 4 in *caenorhabditis elegans* in 1993 our understanding of gene expression has deepened further miRNA discoveries have led to the investigation of new ncRNA families and their function biogenesis and interactions with other types of molecules recent developments in bioinformatics public databases sequencing technologies and biochemical techniques have increased our understanding of the biogenesis function and interactions of ncRNAs this book provides an overview of current ncRNA research dealing with human diseases and cancer and plant miRNAs

this book provides a comprehensive update on recent developments of jasmonates jas and brassinosteroids brs in plant signalling and biotechnological applications over the last few decades an enormous amount of research data has been generated on these two signalling molecules this valuable compilation will enhance the basic understanding of jas and brs mechanism of actions ensuing tolerance mechanism of crops under climate changes for sustainable agriculture and human welfare this book covers topics regarding the occurrence of jas and brs in plants biosynthesis role in plant growth and development role of these pgrs during various abiotic stress tolerance in plants crosstalk of reactive oxygen species ros and plant stress mitigation regulation of jas and brs signaling pathways by microRNA along with physiological and anatomical roles of jas and brs as wound healing regeneration and cell fate decisions the cross talk of jas and brs with neurotransmitters in plant growth and development bio fortification of crop plants with brs in managing in human health issues chapter enlightened new role of brs in human wellbeing this book will be beneficial to scientists researchers agriculturists horticulturists industries related to the crop and food production key features reviews the global scientific literature and experimental data of the authors on the occurrence of jas and brs in various plants update information on recent developments of jas and brs signalling and biotechnological applications in plants highlights the physiological metabolic and molecular mechanism of jas and brs under variable climates addresses the abiotic and biotic tolerance management by jas and brs describes the role of jas and brs in sustainable agriculture and human welfare in eco friendly manner

darwin's medicine is the sequel to brian d smith's influential and critically acclaimed future of pharma gower 2011 whereas the earlier book predicted the evolution of the pharmaceutical market and the business models of pharmaceutical companies darwin's medicine goes much deeper into the drivers of industry change and how leading pharmaceutical and medical technology companies are adapting their strategies structures and capabilities in practice through the lens of evolutionary science professor smith explores the speciation of new business models in the life sciences industry this sophisticated and highly original approach offers insights into the mechanisms of evolution in this exceptional industry the six great technological and social shifts that are shaping its landscape the emergence of 26 distinct new business models and the lessons that enable firms to direct and accelerate their own evolution these insights map out the industry's complex changing landscape and provide an invaluable guide to those firms seeking to survive and thrive in this dynamic market the book is essential reading for anyone working in or studying the pharmaceutical medical technology and related sectors it provides a unique and novel way of making sense of the transformation we can see going on around us and a practical focused approach to managing a firm's evolutionary trajectory

cancer will remain a global major health problem unless new diagnostic prognostic and management approaches are discovered to address both loss of life and quality of life here we summarize the general physiology pathology heterogeneity and evolution of cancer current status limitations and challenges associated with prevention incidence treatment survival and mortality as well as future directions with regards to solid tumors perspectives are provided on how to improve pre clinical understandings outcomes and patient care further this comprehensive timely overview of the literature has educational value as part of an

academic course seminar or as a supplementary text features this book summarizes the current status successes difficulties advancements limitations and challenges in medical interventions that impact patients quality of life includes concise descriptions of all relevant cell and molecular biology concepts including evolutionary paradigms hallmarks of cancer and heterogeneity to help understand the pathophysiology of cancer cancer associated disease conditions and effective cancer therapy contains an array of colorful figures and schematics summarizing complex informative pathological physiological and biochemical concepts covers a multitude of sub topics pertaining to cancer biology including diagnosis chemotherapy radiotherapy and targeted therapy metastasis disseminated and circulating tumor cells and cancer stem cells drug resistance and cellular reprogramming complex epigenetics tumor derived exosomes oncogenic viruses metabolic syndrome and cancer metabolism convoluted neovascularization efficient biomarkers immunotherapy role of nutraceuticals and natural products provides perspectives on how to improve pre clinical understandings and outcomes linking toxicological and pharmacological aspects in patient care this timely relevant comprehensive assortment of scientific literature has educational value to a wider audience including as part of an academic course seminar or as a supplementary text

p53 in breast cancer molecular mechanisms clinical implications and therapeutic targets comprehensively reviews the role of p53 in breast cancer development progression and treatment it explores the multifaceted functions of p53 from its fundamental connection to breast cancer and pathway mechanisms to its influence on cancer metabolism and the impact of mutational alterations the initial chapters discuss the complex landscape of p53's involvement in cancer metabolism the ramifications of its mutations and its crucial role as a tumor suppressor the subsequent chapters review the regulatory functions of p53 in cell death dna repair genomic stability and cell cycle dynamics highlighting its interactions with transcription factors dna repair enzymes and family members p63 and p73 it further reviews the regulation of mutant p53 via post translational modifications and delves into the approaches to combat mutated p53 highlighting targeted therapies and efforts to overcome chemoresistance the chapters also address the role of p53 biomarkers in diagnosis and prognosis the optimization of treatment responses and the impact of nutrition on p53 activity this book is an important resource for oncology and molecular biology researchers key features provides a thorough examination of the p53 gene and its crucial involvement in breast cancer explores the critical implications of mutational alterations in p53 on the development and progression of breast cancer examines the role of p53 in managing apoptosis and contributing to dna repair and genomic stability discusses the complex interactions of p53 with transcription factors dna repair enzymes p63 and p73 highlights the role of p53 as a biomarker in diagnosing and predicting breast cancer prognosis

practical handbook of microbiology 4th edition provides basic clear and concise knowledge and practical information about working with microorganisms useful to anyone interested in microbes the book is intended to especially benefit four groups trained microbiologists working within one specific area of microbiology people with training in other disciplines and use microorganisms as a tool or chemical reagent business people evaluating investments in microbiology focused

companies and an emerging group people in occupations and trades that might have limited training in microbiology but who require specific practical information key features provides a comprehensive compendium of basic information on microorganisms from classical microbiology to genomics includes coverage of disease causing bacteria bacterial viruses phage and the use of phage for treating diseases and added coverage of extremophiles features comprehensive coverage of antimicrobial agents including chapters on anti fungals and anti virals covers the microbiome gene editing with crispr parasites fungi and animal viruses adds numerous chapters especially intended for professionals such as healthcare and industrial professionals environmental scientists and ecologists teachers and businesspeople includes comprehensive survey table of clinical commercial and research model bacteria the open access version of this book available at taylorfrancis.com has been made available under a creative commons attribution non commercial no derivatives 4.0 license chapter 21 archaea of this book is freely available as a downloadable open access pdf under a creative commons attribution non commercial no derivatives 4.0 license available at taylorfrancis.com see emanuel goldman's open access article lamarck redux and other false arguments against sars cov 2 vaccination embopress.org doi full 10.15252 embr.202254675

in june 1970 a diverse group of scientists attended the international symposium on the biology of the sipuncula and echiura at the marine biological station in kotor yugoslavia forty two years later in june 2012 an aspiring generation of like minded scientists convened the second international symposium on the biology of the sipuncula isbs2 along the banks of the fort pierce inlet to the indian river lagoon in florida usa the primary objective of the second symposium was to collect the world's dedicated sipunculan biologists in one place for a long overdue face to face communication of past present and future research we met our objective this proceedings volume includes a brief summary of workshop discussions and field events and a compilation of selected research papers presented by an international group of sixteen scientists from twelve nations in attendance at the isbs2 herein we highlight molecular developmental morphological ecological and biogeographic diversity of adult and larval sipunculans and we introduce several of the outstanding research challenges associated with resolving sipunculan interrelationships establishing standard sets of taxonomic characters refining methods for identification of cryptic species reconstructing an evolutionary framework of developmental life history patterns and addressing implications of recent phylogenetic and phylogenomic hypotheses that have relocated the ancient radiation of unsegmented sipunculan body plans within the predominantly segmented annelida provided by publisher

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radically enhance your progress in organic synthesis radical chemistry has undergone a renaissance in recent years these two volumes will make the key developments accessible to a broad range of organic chemists they cover both the generation of radicals and their use the editors prof louis fensterbank and dr cyril ollivier are experts in radical chemistry and its application to organic synthesis find out all about the generation and use of radicals the two volume set

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