

Microbes In Human Welfare Dushyant Yadav Academia

In order for the United States to maintain the global leadership and competitiveness in science and technology that are critical to achieving national goals, we must invest in research, encourage innovation, and grow a strong and talented science and technology workforce. Expanding Underrepresented Minority Participation explores the role of diversity in the science, technology, engineering and mathematics (STEM) workforce and its value in keeping America innovative and competitive. According to the book, the U.S. labor market is projected to grow faster in science and engineering than in any other sector in the coming years, making minority participation in STEM education at all levels a national priority. Expanding Underrepresented Minority Participation analyzes the rate of change and the challenges the nation currently faces in developing a strong and diverse workforce. Although minorities are the fastest growing segment of the population, they are underrepresented in the fields of science and engineering. Historically, there has been a strong connection between increasing educational attainment in the United States and the growth in and global leadership of the economy. Expanding Underrepresented Minority Participation suggests that the federal government, industry, and post-secondary institutions work collaboratively with K-12 schools and school systems to increase minority access to and demand for post-secondary STEM education and technical training. The book also identifies best

practices and offers a comprehensive road map for increasing involvement of underrepresented minorities and improving the quality of their education. It offers recommendations that focus on academic and social support, institutional roles, teacher preparation, affordability and program development.

Pharmacognosy is a term derived from the Greek words for drug (pharmakon) and knowledge (gnosis). It is a field of study within Chemistry focused on natural products isolated from different sources and their biological activities. Research on natural products began more than a hundred years ago and has continued up to now with a plethora of research groups discovering new ideas and novel active constituents. This book compiles the latest research in the field and will be of interest to scientists, researchers, and students.

Sicurezza dei prodotti alimentari (Sintesi della legislazione dell'UE) 2018 La politica di sicurezza alimentare dell'Unione europea (UE) mira a proteggere i consumatori, garantendo allo stesso tempo il regolare funzionamento del mercato unico. A partire dal 2003, tale politica si incentra sul concetto di tracciabilità sia dei flussi in entrata (ad esempio, il mangime) sia dei flussi in uscita (ad esempio, la produzione primaria, la lavorazione, l'immagazzinamento, il trasporto e la vendita al dettaglio). L'UE ha stipulato norme per assicurare l'igiene degli alimenti, la salute e il benessere degli animali, la salute delle piante e il controllo della contaminazione da sostanze esterne, quali i pesticidi. Sono effettuati rigorosi controlli ad ogni passaggio e i prodotti importati

(ad esempio, la carne) dai paesi terzi devono rispettare le stesse norme; inoltre, sono sottoposti agli stessi controlli degli alimenti prodotti all'interno dell'UE.

The Biological Sciences are in the midst of a scientific revolution. During the past decade under the rubric of molecular biology, chemistry and physics have assumed an integral role in biological research. This is especially true in genetics, where the cloning of genes and the manipulation of genomic DNA have become in many organisms routine laboratory procedures. These noteworthy advances, it must be emphasized, especially in molecular genetics, are not autonomous. Rather, they have been accomplished with those organisms whose formal genetics has been documented in great detail. For the beginning student or the established investigator who is interested in pursuing eukaryote molecular genetic research, *Drosophila melanogaster*, with its rich body of formal genetic information is one organism of choice. The book "Drosophila Genetics. A Practical Course" is an indispensable source of information for the beginner in the biology and formal genetics of *Drosophila melanogaster*. The scope of this guide, a revision and enlargement of the original German language version, is broad and instructive. The information included ranges from the simple, but necessary, details on how to culture and manipulate *Drosophila* flies to a series of more sophisticated genetic experiments. After completing the experiments detailed in the text, all students - neophyte or experienced - will be richly rewarded by having acquired a broad base of classical genetics information relevant for the biologist in its own right

and prerequisite to Drosophila genetics research - formal and/or molecular. Davis, California, Melvin M.

This volume presents cutting edge research on basic and applied aspects of fungal physiology and genetics. Renowned experts provide an overview of traditional as well as current and future aspects of potential application of fungi in biotechnology. This book offers an up-to-date overview of the recently proposed theory of quantum isometry groups. Written by the founders, it is the first book to present the research on the “quantum isometry group”, highlighting the interaction of noncommutative geometry and quantum groups, which is a noncommutative generalization of the notion of group of isometry of a classical Riemannian manifold. The motivation for this generalization is the importance of isometry groups in both mathematics and physics. The framework consists of Alain Connes’ “noncommutative geometry” and the operator-algebraic theory of “quantum groups”. The authors prove the existence of quantum isometry group for noncommutative manifolds given by spectral triples under mild conditions and discuss a number of methods for computing them. One of the most striking and profound findings is the non-existence of non-classical quantum isometry groups for arbitrary classical connected compact manifolds and, by using this, the authors explicitly describe quantum isometry groups of most of the noncommutative manifolds studied in the literature. Some physical motivations and possible applications are also discussed.

The chapters in this volume of "Insights from Animal Reproduction" address several, particular hot topics in the field of reproduction. The book begins with a comprehensive overview of the cryopreservation of sheep-produced embryos. The following chapter revises the assisted reproductive techniques available for South American wild mammals. Chapter 3 presents the technical procedures necessary to produce transgenic goats. Chapter 4 provides a comprehensive revision of the major molecular determinants of litter size in prolific species. Chapter 5 examines the germ cell determinant transmission, segregation, and function using the zebrafish as a model for germ cell specification in the embryo. Chapter 6 summarizes the current understanding of the molecular and cellular mechanisms regulating the early stages of folliculogenesis. Chapter 7 examines the sperm motility regulatory proteins as a tool to enhance sperm quality in cryopreservation processes. Chapter 8 discusses contemporary knowledge on the effects of extremely low frequency magnetic fields (ELF-MF) on male reproductive function in rodents. Chapter 9 highlights the importance of the cytogenetic evaluation in searching for causes of infertility of phenotypically normal animals, as well as individuals with an abnormal sex development. The last chapter provides evidence that other uterine diseases may be hidden behind the clinical diagnosis of pyometra that in some case may have a poor outcome. 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.

? Organic farming, composed of organic fertilizers as an integral virtue, continues to remain a lucrative bet for the expanding agricultural industry, in line with growing organic food appeal to consumers as a healthy and ethical choice. Beyond ethics, organic fertilizers are gaining significant traction on account of numerous environmental benefits, such as enhanced soil structure and water conservation. Growing awareness among farmers about the nutritional benefits of plant based and animal based fertilizers and their role in promoting growth of earthworm and other microbiological activities vital for plant growth are fuelling adoption of organic fertilizers. Animal based organic fertilizers are garnering significant traction over plant based variants owing to their good aeration and water retention capabilities that enhance the soil fertility. As consumers today are inclined towards clean labels and seeking transparency in everything they consume, organic has emerged as a promising approach to address these

concerns. In light of these beneficial aspects of organic approaches and after gauging the futuristic opportunistic value of organic fertilizers. Increasing health issues such as diabetes, obesity and digestive disorders are also one of the factors driving the growth of the organic food. The increased accessibility of organic food and beverages in retail outlets make it more convenient for consumers to purchase these products. Asia-Pacific is also expected to rapidly increase in CAGR, owing to the changing lifestyles and increase in consumer disposable income. Organic food products and shifting consumer preference towards organic food are among the major factors expected to boost demand for organic food products in India. Growing awareness among the consumers regarding the benefits of organic fertilizers over chemical fertilizers, and increasing awareness among farmers and cultivators towards eco-friendly fertilizers. The escalating demand for organic food products is likely to create a dire need for large scale development of organic fertilizers in the forthcoming years, which in turn will create a wide field of opportunities for stakeholders. Sensing the growing demand for organic fertilizers, market goliaths have shifted their focus on expanding their organic fertilizer produce to capitalize on the growing unmet demand from consumers. The book cover various aspects related to different organic farming and production of organic compost with their

agriculture process and also provides contact details of machinery suppliers with equipment photographs and plant layout. A total guide to manufacturing and entrepreneurial success in one of today's organic farming and compost industry. This book is one-stop guide to one of the fastest growing sectors of the organic farming and compost industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. This is the only complete handbook on the commercial production of organic farming and compost. It serves up a feast of how-to information, from concept to purchasing equipment

The Biosynthesis of Mycotoxins: A Study in Secondary Metabolism focuses on the biosynthetic analysis of mycotoxins, which are inherently a heterogeneous group of metabolites that are formed along the terpene route and the route polyketide, as well as from amino acids. This book discusses the unique biological properties and structural complexity of the highly specialized secondary microbial metabolites. Organized into 12 chapters, this book starts with an overview of the characteristics of secondary metabolites, including their problematic function and the combination of their structural diversity with their restricted biological occurrence. This text then explains the sporadic occurrence of the mycotoxins as fungal metabolites. Other chapters explore ergochromes, which are a group of light yellow mycotoxins that are isolated from ergot, mold

fungi, and lichens. The final chapter discusses the biosynthesis of several unrelated fungal metabolites for which toxicological data are reported.

Biochemists, organic chemists, mycologists, enzymologists, plant pathologists, toxicologists, and graduate students will find this book useful.

The future is now—this groundbreaking textbook illustrates how biotechnology has radically changed the way we think about health care. Biotechnology is delivering not only new products to diagnose, prevent, and treat human disease but entirely new approaches to a wide range of difficult biomedical challenges. Because of advances in biotechnology, hundreds of new therapeutic agents, diagnostic tests, and vaccines have been developed and are available in the marketplace. In this jargon-free, easy-to-read textbook, the authors demystify the discipline of medical biotechnology and present a roadmap that provides a fundamental understanding of the wide-ranging approaches pursued by scientists to diagnose, prevent, and treat medical conditions. Medical Biotechnology is written to educate premed and medical students, dental students, pharmacists, optometrists, nurses, nutritionists, genetic counselors, hospital administrators, and individuals who are stakeholders in the understanding and advancement of biotechnology and its impact on the practice of modern medicine. Hardcover, 700 pages, full-color illustrations throughout, glossary, index.

For B.Sc., B.Sc.(Hons.) and M.Sc. Classes of All Indian Universities

Traditional Mexican American herbal potions and remedies and their history are explained in an introductory book for the general reader. The importance of curanderismo, or green medicine, in Mexican and Mexican American cultures is explored. A brief history traces the herbal aspects of curanderismo through Mayan and Aztec cultures, the Spanish conquest, and Hippocrates' theory of humors, and finds contributions from many cultures intermixed with native lore. Other chapters discuss where to obtain herbs, preparation methods, and hazards of herb use. A glossary defines 33 substance effect terms. The largest part of the book contains information about 99 of the most widely used herbs arranged alphabetically by their English common name, with their Spanish name and cross-references provided. Entries include history of the herbs, medicinal uses, and preparation methods. A brief, annotated bibliography lists nine books about herbal medicine, Mexican remedies, and curanderismo. (LFL)

This book ventures into a new and exciting area of discovery that directly ties our current knowledge of cancer to the discovery of microorganisms associated with different types of cancers. Recent studies demonstrate that microorganisms are directly linked to the establishment of cancers and that they can also contribute to the initiation, as well as persistence of, the cancers. Microbiome and Cancer

covers the current knowledge of microbiome and its association with human cancers. It provides important reading for novices, senior undergraduates in cancer and microbiology, graduate students, junior investigators, residents, fellows and established investigators in the fields of cancer and microbiology. We cover areas related to known, broad concepts in microbiology and how they can relate to the ongoing discoveries of the micro-environment and the changes in the metabolic and physiologic states in that micro-environment, which are important for the ongoing nurturing and survival of the poly-microbial content that dictates activities in that micro-environment. We cover the interactions of microorganisms associated with gastric carcinomas, which are important for driving this particular cancer. Additional areas include oral cancers, skin cancers, ovarian cancers, breast cancers, nasopharyngeal cancers, lung cancers, mesotheliomas, Hodgkin's and non-Hodgkin's lymphomas, glioblastoma multiforme, hepatocellular carcinomas, as well as the inflammatory response related to the infectious agents in cancers. This book covers the metabolic changes that occur because of infection and their support for development of cancers, chronic infection and development of therapeutic strategies for detection and control of the infection. The field of microbiome research has exploded over the last five years, and we are now understanding more and more about the

context in which microorganisms can contribute to the onset of cancers in humans. The field of microbiome research has demonstrated that the human body has specific biomes for tissues and that changes in these biomes at the specific organ sites can result in disease. These changes can result in dramatic differences in metabolic shifts that, together with genetic mutations, will produce the perfect niche for establishment of the particular infection programmes in that organ site. We are just beginning to understand what those changes are and how they influence the disease state. Overall, we hope to bring together the varying degrees of fluctuations in the microbiome at the major organ sites and how these changes affect the normal cellular processes because of dysregulation, leading to proliferation of the associated tissues.

The species-area relationship (SAR) describes a range of related phenomena that are fundamental to the study of biogeography, macroecology and community ecology. While the subject of ongoing debate for a century, surprisingly, no previous book has focused specifically on the SAR. This volume addresses this shortfall by providing a synthesis of the development of SAR typologies and theory, as well as empirical research and application to biodiversity conservation problems. It also includes a compilation of recent advances in SAR research, comprising novel SAR-related theories and findings from the leading authors in

the field. The chapters feature specific knowledge relating to terrestrial, marine and freshwater realms, ensuring a comprehensive volume relevant to a wide range of fields, with a mix of review and novel material and with clear recommendations for further research and application.

There are places where the past lingers, making shapes in the moonlight and blowing in the curtains even as the air goes suddenly still. K. Hari Kumar, bestselling author of spine-chilling horror fiction, brings you the terrifying tales of some of India's most haunted places -- including Bhangarh Fort, Malabar Hill's Tower of Silence and Jammu and Kashmir's notorious Khooni Nala. Whether you read them at night or in daylight, these stories will remain with you long after you've turned the last page.

Oxidizing and Reducing Agents S. D. Burke University of Wisconsin at Madison, USA R. L. Danheiser Massachusetts Institute of Technology, Cambridge, USA Recognising the critical need for bringing a handy reference work that deals with the most popular reagents in synthesis to the laboratory of practising organic chemists, the Editors of the acclaimed Encyclopedia of Reagents for Organic Synthesis (EROS) have selected the most important and useful reagents employed in contemporary organic synthesis. Handbook of Reagents for Organic Synthesis: Oxidizing and Reducing Agents, provides the synthetic chemist with a

convenient compendium of information concentrating on the most important and frequently employed reagents for the oxidation and reduction of organic compounds, extracted and updated from EROS. The inclusion of a bibliography of reviews and monographs, a compilation of Organic Syntheses procedures with tested experimental details and references to oxidizing and reducing agents will ensure that this handbook is both comprehensive and convenient.

The use of water for industrial purposes is of foremost importance. It is used as a coolant and industrial activities dealing with power generation, steel and iron, paper and pulp and oil require very large amounts of water. The industry, therefore, resorts to large scale abstraction of water from natural water bodies. This water is often treated with chemicals to combat operational problems like biofouling and corrosion. Such withdrawal and subsequent discharge of large amounts of water have the potential to impart significant impact on the recipient water body. The organisms drawn along with the cooling water, as well as those residing at the discharge zone, are subjected to a combination of mechanical, thermal and chemical stress on a continuous basis.

This book collates the latest information on Kappaphycus and Eucheuma seaweeds. The edited volume provides an important companion to anyone studying or working with what is the world's largest cultivated marine plant

biomass. The contributing authors have excelled in providing information on production and present and future uses of these carrageenan-bearing seaweeds. Important elements of taxonomy, distribution and methods of cultivation and processing are presented to the reader in an accessible and easily understood format. The book provides a number of valuable opinions on value addition and MUZE technologies which highlight value-chains associated with these important red algae.

The book is journey through 5000 years of evolution of Hinduism, and is outcome of seven years of study to understand the roots of Hinduism. Tracing the genesis of Hinduism to pre-Indus Valley period, the book explains Hindu, Hinduism and Sanatana Dharma, before it takes one through Hinduism's oldest scriptures - the four Vedas, the four components of each Veda, and what they contain. How all original translations of Vedic texts were done by Western Sanskrit scholars, and why their works have left scope for doubt about the fidelity of translations. The yajnas (yagya) like Ashvamedha, Rajsooya, Vajpeya, etc., about which we only hear on TV serials and talk shows, have been demystified. The reader will be taken aback reading the sheer size and scale of Soma yajna, described step by step, in great detail. Hinduism's journey to the Age of Reason, the Upanishads, its encounter with Buddhism, and its transformation into idol worshipping society

with many gods and a multitude of stories about its millions of gods is lucidly explained. Puranas, what they contain and what was the reason they were created, has been described and explained next. Hinduism's journey to its modern form - idol worship, the modern puja, detailed description of puja and Sanskaras like Vivaha, their detailed description, the meaning of each action and how they are conducted, the gift to the priest, types of idols, their consecration, all are explained to help a reader understand the why and the how of what we do as a Hindu. The book concludes with a discussion of - Do mantras have power? & Do rituals have meaning?

In this book the authors have applied research knowledge to the solution of practical problems facing wildlife conservation in freshwater habitats. Subjects covered include: evaluation of the conservation interest of sites; practical protection and management of freshwater habitats; species conservation. Biological control, the management of pests by the use of living organisms, has a long history of application to agriculture around the world. However, the effective use of beneficial organisms is constrained by environmental, legal, and economic restrictions, forcing researchers to adopt increasingly multi-disciplinary techniques in order to deploy successful biological control programs. It is this complex process, including the mindset and the social environment of the

researcher as well as the science being pursued, that this book seeks to capture. Chapters reveal the experiences of scientists from the initial search for suitable control agents, to their release into ecosystems and finally to the beneficial outcomes which demonstrate the great success of biological control across diverse agro-ecosystems. Drawing together historical perspectives and approaches used in the development of biological control as well as outlining current debates surrounding terminology and differential techniques, *Biological Control: A Global Perspective* will be a valuable resource.

This volume highlights recent developments in flow cytometry, affinity assays, imaging, mass spectrometry, microfluidics and other technologies that enable analysis of proteins at the single cell level. The book also includes chapters covering a suite of biochemical and biophysical methods capable of making an entire gamut of proteomic measurements, including analysis of protein abundance or expression, protein interaction networks, post-translational modifications, translocation and enzymatic activity. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls. Authoritative and thorough, *Single*

Cell Protein Analysis: Methods and Protocols is useful to researchers and students in biological and biomedical sciences who have an interest in proteomic measurements in cells.

When considering the idea of using machine learning in healthcare, it is a Herculean task to present the entire gamut of information in the field of intelligent systems. It is, therefore the objective of this book to keep the presentation narrow and intensive. This approach is distinct from others in that it presents detailed computer simulations for all models presented with explanations of the program code. It includes unique and distinctive chapters on disease diagnosis, telemedicine, medical imaging, smart health monitoring, social media healthcare, and machine learning for COVID-19. These chapters help develop a clear understanding of the working of an algorithm while strengthening logical thinking. In this environment, answering a single question may require accessing several data sources and calling on sophisticated analysis tools. While data integration is a dynamic research area in the database community, the specific needs of research have led to the development of numerous middleware systems that provide seamless data access in a result-driven environment. Since this book is intended to be useful to a wide audience, students, researchers and scientists from both academia and industry may all benefit from this material. It contains a

comprehensive description of issues for healthcare data management and an overview of existing systems, making it appropriate for introductory and instructional purposes. Prerequisites are minimal; the readers are expected to have basic knowledge of machine learning. This book is divided into 22 real-time innovative chapters which provide a variety of application examples in different domains. These chapters illustrate why traditional approaches often fail to meet customers' needs. The presented approaches provide a comprehensive overview of current technology. Each of these chapters, which are written by the main inventors of the presented systems, specifies requirements and provides a description of both the chosen approach and its implementation. Because of the self-contained nature of these chapters, they may be read in any order. Each of the chapters use various technical terms which involve expertise in machine learning and computer science.

This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering and computer science. Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new

discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

The Harshacharita Is A Monu-Mental Historical Romantic Fiction In Akhyayika Form Written By Banabatta In Eight Chapters. The Story In The Harshacharita Is Not A Full Biography But Covers The Reign Of Harsha Upto The Recovery Of His Lost Elder Sister Rajyashri, And The Royal And Military Activities Of Some Years. Though Some Persons, Happenings, Events And Places Described Here Are Verified By History, It Must Be Remembered That Bana Is Not Writing This Fictional Biography As A Historian But As A Poet Or An Epic Bard, Decorating His Tale With Fancy, Fantasy, The Marvel Of Romance And Adventure, And With All The Literary Devices Of A Determined Poet. The Harshacharita Occupies An Important Place In Sanskrit Literature Because It Furnishes Historical And Sociological Details During His Time

"Proceedings of the Third International Conference on the Conservation and Management of Lakes ... held in Keszthely, Hungary, 11-17 September 1988" -

T.p. verso.

More than a century has passed since the first bioformulations were introduced to the market. But there is still much to be done, explored and developed. Though bioformulations offer green alternatives and are important for sustainable agriculture, they make up only a small fraction of the total additions used to enhance crop yields or protect them from pests. There is a great need to develop bioformulations that can promote confidence among end users; accordingly, it is imperative that bioformulations to replace chemicals be reliable and overcome the shortcomings of the past. Bioformulations: for Sustainable Agriculture discusses all the issues related to the current limitations and future development of bioformulations. It examines in detail those bioformulations that include biofertilizers and biopesticides (also commonly known as bioinoculants), presenting a global picture of their development. Further chapters address diverse microbes that are already being or could be used as bioformulations. The book also discusses the techniques, tools and other additions required to establish bioformulations as trustworthy and global solutions. It assesses the types of bioformulations currently available on the market, while also considering the future roles of bioformulations, including the reclamation of marginal and polluted soils. Further, it discusses the current legislation and much-needed

amendments. Overall the book provides a comprehensive outlook on the status quo of bioformulations and the future approaches needed to improve them and achieve sustainable agriculture and food security without sacrificing the quality of soils. This will be extremely important in offering chemical-free foods and a better future for generations to come.

"A lucid, original, and useful work by a fine scholar already well known in the emerging field of environmental philosophy."—David Abram, University of Kansas

'Photographic Field Guide - Wildlife of South India' is the first-of-its-kind comprehensive field guide covering all the mammals, birds, butterflies, dragonflies, reptiles and amphibians of the six states (Tamil Nadu, Kerala, Karnataka, Goa, Andhra Pradesh and Telangana) of south India. The book is a must have for wilderness enthusiasts as it is a true ambassador to the biodiversity of south India in its own right. It is sure to transform wilderness walks and safaris and even the way people perceive urban wilderness, starting from one's own balconies and gardens. The book, which has 360 pages, covers 1920 species belonging to the six taxa using 1850 photographs contributed by around 280 photographers from India and beyond. The information presented in various sections of 'Photographic Field Guide - Wildlife of South India' has been vetted and added to by experts from the scientific world.

When you are denied something, its value is grossly overestimated in your mind. I rejected all the gifts in our life and dwelled on its single deficiency. Pregnancy was an exclusive club and I wanted to break in. When Rohini married Ranjith and moved to the 'big city', they had already planned the next five years of their life: job, home, and then child. After three years of marriage and amidst increasing pressure from family, they decided to seek medical help to conceive. But they weren't prepared for what came next—not only in terms of the invasive, gruelling and deeply uncomfortable nature of infertility treatment but also the financial and emotional strain it would put on their marriage, and the gnawing shame and feeling of inadequacy that she would experience as a woman unable to bear a child. *What's a Lemon Squeezer Doing in My Vagina?* is a witty, moving and intensely personal retelling of Rohini's five-year-long battle with infertility, capturing the indignities of medical procedures, the sting of prying questions from friends and strangers, the disproportionate burden of treatment on the woman, the everyday anxieties about wayward hormones, follicles and embryos and the overarching anxiety about the outcome of the treatment. It offers a no-holds-barred view of her circuitous and highly bumpy road to motherhood.

'A playwright of world stature'—Mario Relich, *Wasafiri On a Muggy Night in Mumbai* is the first contemporary Indian play to openly tackle gay themes of love,

partnership, trust and betrayal. Kamlesh—young, gay and clinically depressed—invites his friends home ostensibly for an evening of camaraderie. However, with the arrival of his sister and her fiancé, a series of dramatic confrontations is set into motion, leading to startling revelations and unexpected catharsis. ‘At last we have a playwright who gives sixty million English-speaking Indians an identity’—Alyque Padamsee ‘Powerful and disturbing’—The New York Times

This comprehensive field guide to the wildlife of Central India covers 850 species including 75 mammals 433 birds 156 butterflies 84 dragonflies 18 amphibians 84 reptiles Highlights: Over 900 top quality species images Simple yet informative maps of the region Up-to-date taxonomic data Information based on the experience of the authors who have been field naturalists in this very landscape for many year. The visual treat of the images captured by 100 of India’s top wildlife photographers, combined with simple descriptions and user-friendly design, will surely arouse the curiosity of all wildlife enthusiasts and help them explore further the treasures of the jungle.

Bringing together ecology, evolutionary moral psychology, and environmental ethics, J. Baird Callicott counters the narrative of blame and despair that prevails in contemporary discussions of climate ethics and offers a fresh, more optimistic approach. Whereas other environmental ethicists limit themselves to what Callicott calls Rational Individualism in discussing the problem of climate change only to conclude

that, essentially, there is little hope that anything will be done in the face of its "perfect moral storm" (in Stephen Gardiner's words), Callicott refuses to accept this view. Instead, he encourages us to look to the Earth itself, and consider the crisis on grander spatial and temporal scales, as we have failed to in the past. Callicott supports this theory by exploring and enhancing Aldo Leopold's faint sketch of an Earth ethic in "Some Fundamentals of Conservation in the Southwest," a seldom-studied text from the early days of environmental ethics that was written in 1923 but not published until 1979 after the environmental movement gathered strength.

Like a data-guzzling turbo engine, advanced data mining has been powering post-genome biological studies for two decades. Reflecting this growth, *Biological Data Mining* presents comprehensive data mining concepts, theories, and applications in current biological and medical research. Each chapter is written by a distinguished team of interdisciplinary data mining researchers who cover state-of-the-art biological topics. The first section of the book discusses challenges and opportunities in analyzing and mining biological sequences and structures to gain insight into molecular functions. The second section addresses emerging computational challenges in interpreting high-throughput Omics data. The book then describes the relationships between data mining and related areas of computing, including knowledge representation, information retrieval, and data integration for structured and unstructured biological data. The last part explores emerging data mining opportunities for biomedical applications. This

volume examines the concepts, problems, progress, and trends in developing and applying new data mining techniques to the rapidly growing field of genome biology. By studying the concepts and case studies presented, readers will gain significant insight and develop practical solutions for similar biological data mining projects in the future. Deals with the topic of Community Based Disaster Risk Reduction (CBDRR). This book provides an overview of the subject and looks at the role of governments, NGOs, academics and corporate sectors in community based disaster risk reduction. It examines experiences from Asian and African countries.

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