

NEW TITLES



- ▶ Agriculture and Plant Science
- ▶ Animal and Veterinary Science
- ▶ Aquaculture and Fisheries
- ▶ Chemistry
- ▶ Earth and Environment Sciences
- ▶ Engineering and Technology
- ▶ Food Science and Nutrition
- ▶ Health Sciences
- ▶ Life Sciences



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Handbook of Banana Farming

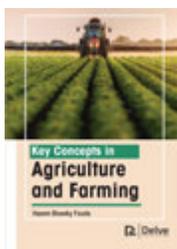
Devendra Kumar

Bananas are commonly grown in tropical and subtropical places around the world, where they can contribute a significant number of calories, nutritional variety, and income. Bananas play an essential part in global food security. The organic farming of bananas has more demand than fertilizers-based crops. The fruits that are grown in the organic farming-based cultivations are costly and few consumers can afford them. Bananas are assumed to be one of the world's popular cultivated fruits, and the leaves are used in a variety of dishes. Banana monoculture cultivation on a commercial scale is a relatively new practice. Fresh and processed bananas both require packaging to prevent them from mechanical damage as they move through the value chain. The majority of bananas are consumed raw, with fewer than 5% being processed. Most of the products derived from banana plants can be processed without much loss in the native nutrients. The cooking of the raw banana can release phenolic compounds that can help in human health. The subject of the book starts from providing a clear picture of organic farming of banana its disease & pest control along with processing that are used as processed foods. The book further talks about the physiology of banana, pathology of banana including desert banana, its disease symptoms, fungi, bacteria, nematodes in banana crops. In addition to this, organic production and tissue culture of banana have been discussed descriptively. Unripe banana fruit is used as a cooked vegetable, chips, and other items, whereas ripe banana fruit is mostly consumed raw. Ripe bananas can be pulped and used to make puree, which can then be used in a range of foods such as ice cream, yogurt, cake, bread, nectar, and baby food. Bananas have been subjected to a variety of treatments in order to extend their shelf life, maintain their quality, and improve their marketability. Furthermore, when selling bananas, ripening stages are critical. Ripe yellow bananas are available at most convenience stores and shops and are ready to eat. Banana production and sales have increased in recent years as a result of improved purchasing convenience and greater health awareness.

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About the Editor

Dr. Devendra Kumar, is presently working as Associate Professor under the Faculty of Agricultural Sciences and Technology, United University, Prayagraj, India. He graduate from University of Allahabad followed by doctorate in Agroforestry from SHIATS, Prayagraj in the year 2013 with JRF and SRF. He has 12 years teaching and research experience and supervised 3 Ph.D. thesis and 2 PG diploma in the field of Agroforestry/Forestry and Environmental Sciences. He is a member of Indian Society of Agroforestry, Jhansi, U.P. He has also published 20 research paper in Indian and foreign Journals of repute and popular articles. He has received Best Research Paper award, Young Scientist Award from Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHUATS), Prayagraj & other eminent Institutes/ Society.



Key Concepts in Agriculture and Farming

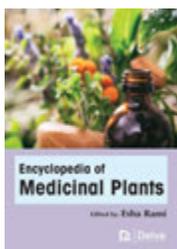
Hazem Shawky Fouda

This book offers to explain in detail the various terms that have been used in Agriculture. Agriculture is the practice of cultivating plants and livestock. Agriculture was the key development in the rise of sedentary human civilization, whereby farming of domesticated species created food surpluses that enabled people to live in cities. The history of agriculture began thousands of years ago.

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Dr. Hazem Shawky Fouda has a PhD. In Agriculture Sciences, obtained his PhD. from the Faculty of Agriculture, Alexandria University, 2008, MSc. In Agriculture Sciences from the Faculty of Agriculture, Alexandria University in 2004, Post-Grade Diploma in Cotton, 2001, BSc. in Agriculture Sciences, from the Faculty of Agriculture, Alexandria University, 1997, worked in Cotton Arbitration & Testing General Organization (CATGO) from 1999 till 2018. Was working in the International Cotton Training Center (ITC) – Cotton Arbitration & Testing General Organization (CATGO) from 2000 till 2015, as a Lecturer & Classer's Trainer for Egyptian and foreigner classers, technicians, ginners, spinners & traders in all cotton aspects. Besides that he was an editor and active member in the Research & Translation Committee, participating in issuing weekly, monthly and annually issues about the international & local cotton market including price trends and direction, recent developments & researches concerning cotton production, protection, harvesting, ginning, fiber testing, spinning & weaving since its foundation in 2000 till 2014 and from 2015 till 2018 he worked as an inspector, since 2018 till present works as a consultant.



Encyclopedia of Medicinal Plants

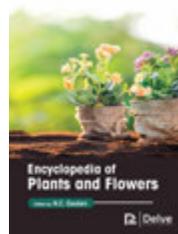
Esha Rami

This compilation reports different therapeutic plant species, most ordinarily utilized by native persons throughout the planet. The botanical term, family name, dialect name, partly utilized, and the use of the plants have been mentioned in this work. This encyclopedia presents a rundown of restorative plants generally used for relieving disorders, their bioactive elements, and their means of operation.

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About the Editor

Dr. Esha Rami is presently working as an Assistant Professor, in the Department of Life science, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated from Ganpat University, Ph.D. in biotechnology from Hemchandracharya North Gujarat University, in the year 2015. She has authored a number of national and international publications in reputed journals.



Encyclopedia of Plants and Flowers

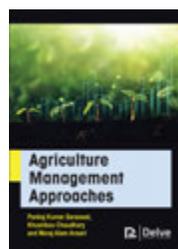
N.C. Gautam

This Plants and Flowers book makes reference to 100s of plants and adorns its pages with great quality pictures, definitions and overall cultivation guidance. It's a truly delightful inventory in digital print. As an amateur studying flora, it is a priceless resource for understanding plant names. It's certainly not going to be comprehensive in a globe of 420,000 types of plant, also mentioning the massive numbers of cultivars and varieties. Notwithstanding, it is loaded with the most common and contemporary domestic plants. The book is divided into different plant types, including trees, bushes, climbers, bulbs, water plants, perennials, annuals and others such as delicate plants and desert flora. It provides a close up of blossoms or leaves and gives a true sense of what the plant resembles. This book is an unquestionable resource for any genuine, novice or master gardeners. Flowering plants are a kind of vascular plant that produces blossoms to reproduce. These plants produce seeds inside a fruit product. The scientific term for blossoming plants is angiosperms.

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About the Editor

Prof. N.C. Gautam is M.Sc. Ph.D. in Botany-Genetics & Plant Breeding. He is a former Vice-Chancellor, M.G.C.G.V., State University Chitrakoot, Satna (M.P.) and VBS Purvanchal University, Jaunpur, U.P. He has also worked as a Dean, Post graduate studies. NDUAT, Faizabad and Dean & Faculty of Hort., NDUAT, Faizabad. He has over 49 years experience in academics and more than 46 years of experience in teaching of Post Graduate and Under Graduate courses at University level. He also has 48 years experience, guided more than 8 Ph.D. students and 15 M.Sc Ag theses. He has published 20 books and many research papers. He is a Fellow of Indian society of Vegetable science, Fellow of Indian Botanical Society and Fellow of CHAI. He has received 15 awards and honors at national and international level. He has also worked on improving 30 Varieties of rice & vegetable crops besides other viable technology. He has also served as Chairperson/member of Expert Committee-UGC, Chairman/Member in Vice Chancellor Search Committees for many universities and Chairman-UGC and ICAR State Universities.



Agriculture Management Approaches

Pankaj Kumar Saraswat, Khushboo Chaudhary and Meraj Alam Ansari

Plants are valuable resources for all living organisms that provide food, medicine, produce oxygen and regulate the water cycle. This book has updated information on agricultural land management by using organic waste or recycling organic waste, heavy metal contaminated groundwater, using gypsum and integrated management of soil for improving crop productivity. While the main emphasis is given to increasing the proper and balanced use of mineral fertilizers, the role of organic manure, biofertilizers, and green manuring and recycling of organic wastes should be considered supplementary and not substitutable.

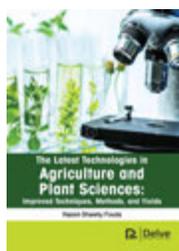
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About the Authors

Dr. Pankaj Kumar Saraswat graduated from R.B.S. College Bichpuri (Agra University) Agra in 1996, completed post-graduate and Ph.D. in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004, respectively. Dr. Saraswat started his career at H.N.B.C. University Srinagar Garhwal Utrakhand in 2005 as a lecturer in Soil Science and moved as Subject Matter Specialist (Soil Science) to KVK Banasthali Vidyapith Tonk Rajasthan. In October 2015, Dr. Saraswat joined ICAR-RC for N.E.H Region Umiam as Sr. Scientist & Head at KVK Tamenglong Manipur. Dr. Saraswat as P.I. completed two research projects externally funded from SERC-DST Govt. of India New Delhi and DST-Govt. of Rajasthan Jaipur. At the same time, he also conducted four INSPIRE-Internship Science Camps under the SEAT program of DST for 10th pass top 1% students of Rajasthan. Presently Dr. Saraswat has been working on agricultural technology assessment and demonstrations for its wider application at farmers' fields along with capacity development programs for farmers, farm women, rural youth, line departments and other stakeholders and also as P.I. in an NEC Shillong funded demonstration based projects in Tamenglong district Manipur.

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has 1 year of teaching experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published three international textbooks. She has got seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also at the International Conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in a virology journal. She is likely to be a co-author in several publications and coauthor in J. Virological Methods.

Dr. Meraj Alam Ansari is presently working as a Scientist under the Agronomy Division from ICAR-RC for NEH Region, Manipur Centre Imphal. Dr. Ansari M.Sc. (Agriculture) Agronomy from CSA University of Agril & Technology Kanpur and Ph.D. from IARI New Delhi joined Agricultural Research. He is a Scientist, Agronomy at ICAR-RC for NEH Region, Manipur Centre Imphal, he has been engaged in farming system research including soil management crop production and the development of integrated farming system (IFS) model suitable and profitable for Jhumland hill farming.



The Latest Technologies in Agriculture and Plant Sciences: Improved Techniques, Methods, and Yields

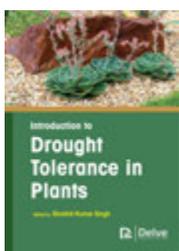
Hazem Shawky Fouda

Agriculture production and productivity still has big potential for better that can be achieved by applying better technologies, to apply new technologies we've to research for it first. We are living in a world that instability in supply chains - due to many reasons - of everything including food supply chain, which necessitate us to do more effort to maximize Agriculture products and food productivity to lessen the dependence on imports which we described as instable. Investing more in agriculture research is not luxury it is a must for now and for future to secure stable agriculture products and food supply chain.

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Dr. Hazem Shawky Fouda has a PhD. In Agriculture Sciences, obtained his PhD. from the Faculty of Agriculture, Alexandria University, 2008, MSc. In Agriculture Sciences from the Faculty of Agriculture, Alexandria University in 2004, Post-Grade Diploma in Cotton, 2001, BSc. in Agriculture Sciences, from the Faculty of Agriculture, Alexandria University, 1997, worked in Cotton Arbitration & Testing General Organization (CATGO) from 1999 till 2018. Was working in the International Cotton Training Center (ICTC) – Cotton Arbitration & Testing General Organization (CATGO) from 2000 till 2015, as a Lecturer & Classer's Trainer for Egyptian and foreigner classes, technicians, ginners, spinners & traders in all cotton aspects. Besides that he was an editor and active member in the Research & Translation Committee, participating in issuing weekly, monthly and annually issues about the international & local cotton market including price trends and direction, recent developments & researches concerning cotton production, protection, harvesting, ginning, fiber testing, spinning & weaving since its foundation in 2000 till 2014 and from 2015 till 2018 he worked as an inspector, since 2018 till present works as a consultant.



Introduction to Drought Tolerance in Plants

Shobhit Kumar Singh

For developing an effective and efficient system for coping with drought management, the first and foremost task is understand the morphological, biochemical, physiological and molecular changes in plants upon climate alteration. Changing climatic conditions and global warming is causing severe drought condition that is aggravating the food security issue worldwide. The reason for the concern is a complex relationship between prolonged drought period, scarcity of water for irrigation, water deficit area, disturbed rainfall pattern, degraded soil quality, germplasm erosion and increasing food consumption rate. The major goal of sustainable agriculture is to reflect on crop productivity whereas some hope is directly linked with genetic improvement of crops which could provide an effective strategy to enhance the drought tolerance capacity in plants. This needs to be understood in terms of field trials for various varietal development initiatives and addressed better for drought management. Prolonged drought conditions affects the molecular, biochemical, morphological and physiological characteristics of the plants. This book covers the role of drought in reducing the yields and measures to mitigate the losses. Advanced technologies like genome-assisted breeding and nanotechnology are discussed in this book. This book can serve as a handbook for undergraduates and postgraduates who are interested in working on understanding the mechanism and development of drought-tolerant plants through modern breeding approaches.

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Dr. Shobhit Kumar Singh is working as Scientist C in the Department of Plant Physiology and Breeding, Tocklai Tea Research Institute, Tea Research Association, Jorhat, Assam, India. He completed his Ph.D. in Agriculture with special reference to the development of Bradyrhizobium japonicum strains for symbiotic nitrogen fixation in Soybean crop (Glycine max) in the year 2012. He has 08 years of research experience in the field of Crop Improvement with special reference to Conventional Plant Breeding, Biodiversity of plant, varietal development of soybean and tea plants. He has long term experience in tea varietal development program.



Introduction to the Latest Plant Methods: A Guide for Farmers and Researchers

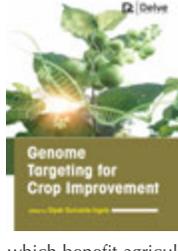
Hazem Shawky Fouda

This book serves as a handbook for both researchers and farmers in agriculture. It deals with the latest plant methods used in the research labs. A discussion on plant breeding and stress tolerance can be helpful for students and researchers. Advanced topics like embryo culture and transgenic plants were discussed in detail. Antiviral resistance and bioinformatics related to plant biology are emphasized. This book explains the phenotyping of plants and nanotechnology applications that are beneficial for plant growth and reproduction. The problems associated with genetically modified plants were discussed. This book can be used for students who are pursuing graduate and undergraduate courses.

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Dr. Hazem Shawky Fouda has a PhD. In Agriculture Sciences, obtained his PhD. from the Faculty of Agriculture, Alexandria University, 2008, MSc. In Agriculture Sciences from the Faculty of Agriculture, Alexandria University in 2004, Post-Grade Diploma in Cotton, 2001, BSc. in Agriculture Sciences, from the Faculty of Agriculture, Alexandria University, 1997, worked in Cotton Arbitration & Testing General Organization (CATGO) from 1999 till 2018. Was working in the International Cotton Training Center (ICTC) – Cotton Arbitration & Testing General Organization (CATGO) from 2000 till 2015, as a Lecturer & Classer's Trainer for Egyptian and foreigner classes, technicians, ginners, spinners & traders in all cotton aspects. Besides that he was an editor and active member in the Research & Translation Committee, participating in issuing weekly, monthly and annually issues about the international & local cotton market including price trends and direction, recent developments & researches concerning cotton production, protection, harvesting, ginning, fiber testing, spinning & weaving since its foundation in 2000 till 2014 and from 2015 till 2018 he worked as an inspector, since 2018 till present works as a consultant.



Genome Targeting for Crop Improvement

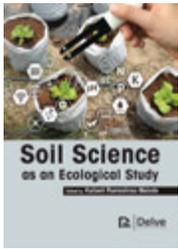
Dipak Gunvanta Ingole

World population is growing exponentially and with changing climatic scenarios, food security is a concern that needs immediate attention. Increasing crop productivity from limited land and natural resources is a challenge for agricultural scientists across the world. The technique of gene targeting for targeted trait improvement in crop plants are helpful in eliminating the defects of otherwise elite varieties. Genetically modified crops are being introduced to the market due to their improved characteristics, which benefit agricultural communities. However, the GMOs face regulatory concerns for field trials and commercialization due to the presence of foreign genes. Gene editing has aided us in modifying DNA sequences in order to create superior qualities. Molecular scissors, such as sequence specific nucleases, are commonly utilized to optimize gene editing operations. With the introduction of the CRISPR-Cas method, the gene editing process in plants has accelerated, paving the way for the modulation of non-model plants that are beneficial to the global population. Transformation strategies have been demonstrated to improve the quality of plant yields. Plant biotechnology has resulted in the development of various herbicide and pesticide resistant plant varieties, which are critical in modern agriculture. They can significantly lower the cost of insecticides and herbicides, so benefiting farmers. Climate change has necessitated various adjustments to the plant genome in order to save people from starvation worldwide, a challenge that is being addressed through the introduction of gene editing tools. This book sheds light on a variety of areas of gene targeting, with a particular emphasis on crops farmed throughout the world. This book is appropriate for any student interested in learning about gene editing and its significance in crop development.

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Soil Science as an Ecological Study

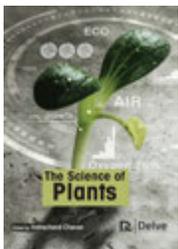
Kailash Ramesh Rao Malode

A text book of Soil Ecology, offers a physico-chemistry approach to soil biology and ecosystem function, providing students and ecosystem researchers with a greater understanding of the central roles that soils play in ecosystem development and function. The text emphasizes the increasing importance of soils as the organizing center for all terrestrial ecosystems and provides an overview of theory and practice in soil ecology, both from an ecosystem and evolutionary biology point of view. This book is fully updated, including an expanded treatment of microbial ecology and new sections on advances in molecular techniques and climate change research. These updates make this edition an essential resource for researchers and students in soil ecology and microbiology. The book has presented a historical background of soil concepts, extending from early Chinese and Mesopotamian cultures, through Greco-Roman, into modern times. Much modern research focuses at the interface between soil, water, gases and organisms. Soils have texture and structure, arising via a range of mechanisms, mediated by the production of soil organic matter. Soil is one of the most heterogeneous environments that exist in nature and existing within this complex matrix are soil biota ranging from virus particles through to macro fauna. From this complex environment comes most of the food needed for the world population. This highlights the absolute importance of improving our understanding of this complex environment. Soil biodiversity changes driven by global change are the result of direct impacts (changes in temperature and moisture), and indirectly, through shifts in nutrient supply from plants. Invasive plants and animals add to the complexity of these long-term processes. Increasing food web complexity in soils should provide improved "health" (i.e., enhanced recycling of nutrients) in agro-ecosystems. . It critique of the interfaces between soil food webs, and enhanced provision of ecosystem services over landscapes at millennial time scales. In this book the physico-chemical and biological properties of soil have been mentioned, reader's will have a book that will go a long way to words giving them the understanding of soil ecology relevant to research in production, agriculture and on environmental issues.

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The Science of Plants

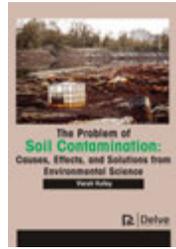
Indrachand Chavan

This book sheds light on New Age Molecular Techniques, Transgenic plants, Plant Metabolomics, Plant Phosphate Nutrition and Environmental Challenges, Improving Nitrogen and Phosphorous efficiency for optimal yield and growth, Nanotechnology in Agriculture, and Miscellaneous Neglected and Underutilized Legume Crops. The first chapter introduces the readers to Molecular Techniques. This chapter will also emphasize on the concept of Molecular Marker Analysis, DNA Sequencing, Genetic Linkage Mapping, Marker Assisted Selection, Omic technologies and Bioinformatic Analyses. The second chapter provides an overview of transgenic plants while third chapter covers plant metabolomics. The fourth chapter takes the readers to Plant Phosphate Nutrition and Environmental Challenges. The fifth chapter introduces the readers to Improving Nitrogen and Phosphorous efficiency for optimal growth and yield. The sixth chapter throws light on the role of Nanotechnology in Agriculture. The last chapter of this book sheds lights on Miscellaneous Neglected and Underutilized Legume crops (MNUGLs). This chapter also mentions about some selected MNUGLs, its their genetic potential, their role in sustainable agriculture, etc. This book provides a reference material for UG and PG students, research scholars and science professionals.

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Dr. Indrachand Chavan (1983) is presently serving as a Principal, Maratha Vidya Prasarak Samaj's KDSP College of Agriculture, Nashik. He obtained his B. Sc.(Ag.) in 2006 from Dr. BSKKV, Dapoli, Ratnagiri, M. Sc. (Ag.) in 2009 from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph. D. Agronomy in 2014 from Sr BSKKV, Dapoli. He started his career as Assistant professor in 2008. His field of specialization is crop husbandry. He has published 01book and 09 research paper in National and international journals of reputed. He has participated many National, State Seminar and symposiums. He has delivered Radio talk, Lectures in farmer training programme.



The Problem of Soil Contamination: Causes, Effects, and Solutions from Environmental Science

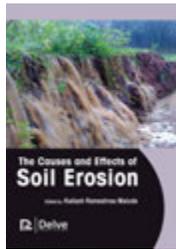
Vierah Hulley

Soils are natural resources that play a critical role in providing ecosystem services to sustain life. However, soils are susceptible to anthropogenic activities. These activities introduce contaminants of concern into the soil environment creating a source zone for environmental and human health impacts. This book provides a comprehensive treatise on the activities that cause soil contamination, the impacts of contaminated soils, and the status quo on policies, remedial actions, and technologies available to assess and manage these risks.

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About the Author

Vierah Hulley (PhD) is an international expert in Environmental and Earth Sciences, with an extensive vocational background in the areas of environmental policy development, environmental and social risk management, natural resources management, sustainability, and climate risks management. She is the Founder of HL Nexus: Sustainable Management Solutions; a company dedicated to harnessing the power of data science in managing sustainability and climate risks. Vierah holds a master's degree in Geology and a PhD in Hydrogeology, with a focus on environmental and spatial science.



The Causes and Effects of Soil Erosion

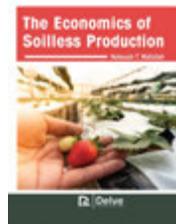
Kailash Ramesh Rao Malode

Soil health is of much significance to farmers and the populace that rely on farming for food and business. There are a few obstacles to combat soil erosion, however there are solutions for forestall it also. Soil erosion is a natural process involving wearing out of the topsoil, notwithstanding human activities have speed up the cycle. It is generally caused by the eradication of vegetation, or any activity causing the ground to become dry. Grazing, farming, mining, and industrial development are some of the factors that cause soil erosion. The impacts of soil erosion are not simply land destruction. It has prompted a sharp increase in environmental pollution and sedimentation in streams that obstructs the water bodies bringing about a decline in aquatic life forms. Degraded lands lose their water holding capacity bringing about floods. This volume contends that soil erosion is a main trigger for desertification. It changes the livable areas into deserts. Deforestation and damaging utilization of land further deteriorates the situation. This likewise prompts loss of biodiversity, soil degradation, and ecosystem changes.

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The Economics of Soilless Production

Nekesah T. Wafullah

Crop production is closely associated to soil. However, this is not the only way to grow crops. With continuous advancement in science research growing of crops is now being done in soilless media and this practice is growing. With soilless crop production reducing the risk of soil borne diseases, this book helps the audience to learn the details of soilless production in a simple language and well-illustrated explanations. The book describes crops that are mostly grown in soilless media and the reasons behind the crop's choices. It also discusses the most important physical and chemical properties of different soilless medias. Further it describes how to carry out management practices of different soilless media in order to get the most from the media. It also shows how to maintain, recycle and dispose the soilless media. This book has great knowledge for individuals seeking to invest in soilless production at both starter level or pro level. The audience of the book also get some basic guide on some steps of establishing either a small scale or large-scale hydroponic farm. At the end of the book, the audience will benefit from a detailed review of how to grow some crops that are commonly grown in soilless media.

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About the Author

Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M.Sc. in Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.



Basics of Plant Sciences

Khushboo Chaudhary, Pankaj Kumar Saraswat and Aniruddh Kumar Pareek

Plants are fundamental to all life on Earth. They provide us with food, fuel, fiber, industrial feedstocks, and medicines. Plant science is essential to maintaining the world around us. The topics covered are inclusive but not limited to plant breeding, mode of reproduction in crop plants, plant variation, genetic consequences of self and cross-pollinated crops, male sterility, polyploidy and mutation breeding. The aim of this book is to give a sequential knowledge of plant pathology, plant breeding, plant biochemistry, environmental science and agro-ecology, vegetable production and biostatistics and computers in this book.

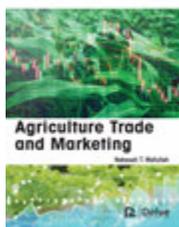
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About the Authors

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

Dr. Pankaj Kumar Saraswat, graduate of R.B.S. College Bichpuri Agra University 1996, completed Masters and Doctorate degree in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004 respectively. Dr. Saraswat started his career as a lecturer in Soil Science in 2005 at H.N.B. Garhwal University Srinagar Garhwal and thereafter joined KVK Banasthali Vidyapith Tonk Rajasthan as Subject Matter Specialist (Soil Science). He has worked as a young scientist in SERCST New Delhi-funded research project and as P.I. in a DST-Rajasthan-funded research project during 2010-2015 and organized the 04 INSPIRE Internship Science camp under SEAT program of DST New Delhi for 10th pass top 1% students of CBSE & Rajasthan Board. In October 2015 Dr. Saraswat joined ICAR-RC for N.E.H. Region Umiam as Senior Scientist cum Head at KVK Tamenglong Manipur and was promoted to Principal Scientist cum Head in October 2020. He has worked as P.I. and Co-P.I. in 04 Institute and 01 NEC-Govt. of India-funded projects at KVK Tamenglong Manipur. He has 25 research papers, 07 project reports, 05 books, 02 training manuals, 30 popular articles to his credit in the field of agriculture and applied science. Presently He has been working as Principal Scientist cum Head at KVK-National Dairy Research Institute Karnal Haryana for technology assessment and demonstration for wider application with capacity development of farmers, farm women

Mr. Aniruddh Kumar Pareek is presently working as a freelancer in the field of Intellectual Property Rights. He is a Registered Patent Agent and Trade Marks Agent at the Patent & Trademarks Office, Government of India. He is having seven years of experience in Intellectual Property (IP) Law and practice, Patent drafting and prosecution, Patent search and analysis, Trademark prosecution and search. He is also having eight years of research experience in the fields of Biotechnology, Plant Sciences and Animal Sciences. He graduated from Maharaja's College, University of Rajasthan, Jaipur in 2000, completed post-graduation in Biotechnology from Bundelkhand University, Jhansi in 2002 and LL.B. from University of Rajasthan, Jaipur in 2020. He has published several research papers in international and national journals. He has also submitted several abstracts in various seminars and conferences. He is a life member of the Indian Society for Sheep and Goat Production and Utilization (ISSGPU).



Agriculture Trade and Marketing

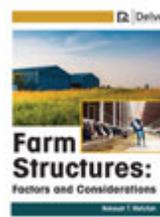
Nekesah T. Wafullah

Fulfilling the demand for food in urban and rural areas is vital. Given the changing preferences by consumers, trade ensures that these demands can be met at any point of production, locally or globally. This book explores the agriculture market and its functions. The book uses the value chain approach to explain how manufacturing, purchasing, and selling goods works in an agriculture market. The book further shows some mechanisms and factors considered in determining price of agriculture commodities and services. Given the politics involved in price determination, the book also offers some business models like cooperatives that make farming value chains more resilient and provide better quality products while still remaining competitive at a global level. The book also reviews some trade policies that may affect global trade. This book is quite elaborate for an audience needing some knowledge on agriculture trade and marketing, especially if one want to take advantage of global trade. The book can act as a guide in analyzing agriculture value chain based on the discussed factors.

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About the Author

Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M Sc. in Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.



Farm Structures: Factors and Considerations

Nekesah T. Wafullah

There are many approaches to ensure the commercial profitability of a farm. Apart from farm inputs, farm structure plays a big part in protecting these efforts from negative impacts. Farm structures provide conducive environment for running a prosperous farm. This book walks you through the nitty gritty of farm structures including how they are classified, their functions and the build quality in order to achieve best outcome. The book looks at the different materials farmers will use in order to achieve the most conducive environment and also compares the outcome with the cost implication of choosing the material. The book also suggests some of the considerations to make while trying to design a simple farmstead plan. For people looking to contract building of farm structures, this book gives an outstanding review of factors to consider, documentation and building element to be keen on while contracting. This book is a good read for people who are starting a new farm or are aiming to enhance an already existing farm stead.

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About the Author

Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M Sc. in Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.



Precision Agriculture: Enabling Technologies

Nekesah T. Wafullah

The growing world population is constantly driving the food demand up. Coupled with the ongoing environmental concern farmers are required to be more precise in food production in order to increase food production and at the same time be environmentally sustainable. This book looks at the various technologies that help farmers gradually achieve precision agriculture (PA). The book discusses technologies that help observe measure and compute variabilities in production in order to achieve accuracy in operations. The book also looks at the importance of PA in quality assurance of activity and processes along the value chain by ensuring transparency among value chain players and ensuring compliance with good agricultural practices (GAPs). This book will help the audience understand the principles of PA in crop and animal production and also help them gradually adopt PA practices in production based on their level.

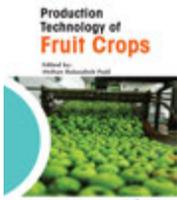
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About the Author

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Production Technology of Fruit Crops

Mohan Balasaheb Patil



Most countries have a variety of climates and soils to grow horticultural crops, providing sufficient opportunities for the expansion of the fruit sector, however the biggest challenge presently is to produce enough fruits to meet the needs of the growing population. This volume discusses the technologies applied for effective use of resources in order to obtain higher yield per investment unit with high-quality yields in a short time. In today's open economy era; in the domestic and international markets,

quality fruit products are becoming more and more necessary to remain competitive. This is only possible through the deployment of high-tech applications and precision farming methods. Fruits are important to people and also play a crucial role in religious customs, mythology and artwork. They are not just delicious, but also contain many nutrients vital for human health. Fruit production needs a lot of scientific knowledge and basic understanding to be successful. The volume compiles various topics in fruit production technology, such as layout and planting, different cultural customs, development and reproductive traits of fruit crops, and infertility. Some of the topics discussed include chapter 1: introduction to fruit crop production, chapter 2: classification of fruits, chapter 3: importance of fruit production, and chapter 4: planting systems and transplanting of fruit trees among others. The volume is useful to growers, nursery keepers, farmers, teachers, researchers, extension workers, and anyone who wants to be familiar with fruit farming technology.

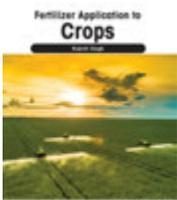
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About the Editor

Dr Mohan Balasaheb Patil is presently working as Professor and In charge of fruit research station Aurangabad. He did his Bsc Agri. from Marathwada Agril. University Parbhani in 1986. Msc (Ag) Horti. In 1988 while, Ph. D in 2004 from the same university. He has started his carrier in 1994 as Asistant Prof. promoted as Associat Prof. in 2007 & Professor in 2017. He has established the Sweet Orange Research Station at Badnapur. Published 25 research papers in national and international journals. Published more than 100 popular articles. He received Agrocare Award for the best extension activities. He has authored and published two books.

Fertilizer Application to Crops

Rajesh Singh



The fertilizers can play an important role in managing soil fertility. This book presents the concept of fertilizers and their utility in crops. This book provides an impetus towards learning crop science that can be of fertilizers. The concept of the preparation of fertilizers and their use in the crop systems is illustrated. This book can help all science students who are interested in fixing their careers for agriculture research and development. This can also serve as a handbook for researchers and other academic communities.

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About the Author

Prof Rajesh Singh, currently working as Vice Chancellor of Purnea University, Purnea, Bihar & Vice Chancellor of BBA Bihar University Muzaffarpur, Bihar. Earlier Prof Singh joined as Professor of Genetics and Plant Breeding since November 2006. He has over 29 years experience in teaching, research and extension in Central University (BHU), State University (GBPUAT, Pantnagar) as well as Central Institutions (Indian Council of Agriculture Research, New Delhi). He has been holding important charges of Coordinator/Head of Plant Biotechnology, Chairman Press Publication and Publicity Cell of BHU (equal to dean), Secretary-cum-Coordinator of a 50 million dollars International Project "Agriculture Innovation Partnership" funded by US AID (American Embassy) involving five American and three Indian universities, BHU being leading University. Dr Singh has taught for over 25 years at under-graduate and postgraduate levels in BHU, Varanasi and GBPUT, Pant Nagar and guided over 60 students of Master's and Doctoral level research so far. He has successfully generated external funding to the tune of about Rs 70 crores through 25 competitive grant external projects of national and international importance. He has developed and released 16 crop varieties/patent. He planned and executed 12 explorations for collection and conservation of about 4000 multi-crop germplasm. He has accepted consultancy of establishing DNA finger printing labs of UP and Bihar state government and was also pioneer in successfully establishing five new biotechnology labs. Dr Singh was instrumental in reforming / initiating several courses in Genetics, Molecular Biology, Molecular Breeding, Plant Breeding, Cyto-genetics, Microbial Genetics, etc including, successfully starting a new course of M.Sc (Plant Biotechnology) by planning, preparing and executing the course curriculum as per guide lines of UGC and ICAR. Prof Singh has been conferred with several awards including SEE Fellow Award, Best Scientist cum Field Worker Award, Kisan Sewa Award, Young Plant Biotechnologist Award, Best Scientist Award, Innovation Award, Excellence Award, etc. He has published about 250 publications including 105 peer reviewed research papers and 21 books/bulletin and manuals of national and international importance.

Crop Nutrient Uptake and Efficiency

Kiran



The current alarming rate of decline of earth's natural resources, particularly of the reserves of rock phosphate and fossil fuel, is of great concern for the future of agriculture, particularly in developing countries. Not surprisingly, sustainable crop production remains a major global challenge and has drawn increasing attention among policy makers, business, and the scientific community. The agricultural use of land for crop production leads to the continuous extraction of soil nutrients. In the absence of adequate nutrient replenishment, a subsequent decrease of soil nutrient availability may occur, exerting a negative effect on yield. This book deals with strategies to overcome low nutrient availability in soils mainly rely on the use of fertilizers and crop breeding.

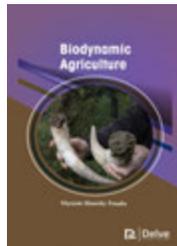
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About the Editor

Dr. Kiran received her undergraduate education from Bangalore University, B.Sc. in Biotechnology. Then she did postgraduation in M.Sc Ag. from Allahabad University, where she got a gold medal. Then she did her Ph.D (Ag.) in Plant Breeding and Genetics from CSKHPKV, Palampur. She has a brilliant academic record throughout. She worked at G.B. Pant University of Agriculture and Technology, Pantnagar and CKU, Bathinda. She has a number of books, research papers to her credit. Her research interests range from Plant Breeding & Genetics, Seed Science & Technology, Biotechnology, Bioinformatics and Plant Tissue Culture. She has voluntarily worked as a coordinator, society for social development, as a community development trainer, Raipur and as a public support executive, Navjeevan foundation, Kangra HP, India. Presently Dr Kiran is working as Assistant Scientist (Genetics and Plant Breeding) in Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya, Palampur, India.

Biodynamic Agriculture

Hazem Shawky Fouda



Biodynamic farming is a pioneering farming technique invented by Dr. Rudolph Steiner in the 1920s. It was created to deal with the emerging problems of soil erosion during that time. This volume provides a full range of activities covered by biodynamic agriculture. Some of the chapters mentioned include chapter 1: principles and practices of biodynamic agriculture, chapter 2: history of biodynamic agriculture, chapter 3: the difference between organic and biodynamic agriculture, chapter 4: biodynamic compost preparation, chapter 5: biodynamics in weed, pest and disease control, chapter 6: benefits of biodynamic farming, chapter 7: biological farming practices and, chapter 8: the main problems faced by small biodynamic farmers among others. The volume describes biodynamic agriculture as a comprehensive, ethical, and natural way of dealing with food shortages. This process does not include the use synthetic pesticides and fertilizers, but chooses to use something extraordinary: organic preparations. These consist of absolutely natural compounds found within the farm itself. The volume suggests that the application of these preparations should follow a strict schedule to merge the planting season, lunar calendar and astrological cycle. The volume defines sustainability and evaluates sustainable biodynamic agriculture as it relates to the description. It investigates the effect of organic manure on soil quality, and assesses whether biodynamic agriculture is feasible as a sustainable farming practice.

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About the Author

Hazem Shawky Fouda has a PhD. In Agriculture Sciences, obtained his PhD. from the Faculty of Agriculture, Alexandria University, 2008, MSc. In Agriculture Sciences from the Faculty of Agriculture, Alexandria University in 2004, Post-Grade Diploma in Cotton, 2001, BSc. in Agriculture Sciences, from the Faculty of Agriculture, Alexandria University, 1997. He worked in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till 2018. Was working in the International Cotton Training Center (ICTC) – Cotton Arbitration & Testing General Organization (CATGO) from 2000 till 2015, as a Lecturer & Classer's Trainer for Egyptian and foreigner classes, technicians, ginners, spinners & traders in all cotton aspects starting from picking seed cotton till preparing bales for export including other cotton aspects and training them practically on classing cotton. Besides that he was an editor and active member in the Research & Translation Committee, participating in issuing weekly, monthly and annually issues about the international & local cotton market including price trends and direction, recent developments & researches concerning cotton production, protection, harvesting, ginning, fiber testing, spinning & weaving since its foundation in 2000 till 2014 and since 2015 till 2018 he worked as an inspector, from 2018 till present works as a consultant.



Plant Biotechnology

Gunjan Singh and Khushboo Chaudhary

Plant biotechnology complements plant breeding efforts by increasing the diversity of genes and germplasm available for incorporation into crops and by significantly shortening the time required for the production of new cultivars, varieties and hybrids. This book has covered a range of syllabus and the student finds an easy way to go through this book content. This guide book has been prepared for students that they have acquired or gain fair knowledge of Plant biotechnology and easy presentation of language has written for a proper understanding of each and every topic. This book would serve not only for undergraduate but postgraduate students of biotechnology and also research scholar of various universities.

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About the Authors

Gunjan Singh is presently working as an Assistant Professor in HIMT, Greater Noida (U.P) and having ten years of teaching experience. She has published research papers in the peer review journals of international repute and, she has also attended several national and international conferences in the fields of biotechnology and education and presented her research findings.

Dr. Khushboo Chaudhary is presently working as a Technical officer-I in Translational Health Science and Technology Institute, Faridabad Haryana, India and having one year of teaching experience and eight years of research experience. Previously, she worked on the PPR virus and New Castle Disease virus and isolates many other viruses from animal outbreak samples. She has published several research papers in international and national journals. She has published five international textbooks. She has got seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award by ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in a virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.



Handbook of Minor Fruits, Medicinal and Aromatic Plants

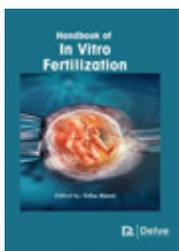
Esha Rami

Fruits are an essential part of our diet. Minor fruits are referred to as the fruits that have been domesticated, have high value but are not grown widely. This book consists of ten chapters on various fruits and medicinal and aromatic plants. Each chapter consists of an introduction to fruits and medicinal plants. Give a brief explanation about the nutritional value, processing of minor fruits. This book also covers medicinal plants along with their medicinal value. It also gives information about the history of aromatic and medicinal plant. This book, which contains thousands of references and colorful photographs stands as unique of its own. Undergraduate, graduate students researchers, horticulturists, agricultural research scientists, fruit growers and Consumers across the world will find this book very informative as well as practical.

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Dr. Esha Rami, is presently working as Assistant Professor & Head, Department of Biotechnology, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated and PhD in Biotechnology from Ganpat University. She has authored a number of national and international publications.



Handbook of In Vitro Fertilization

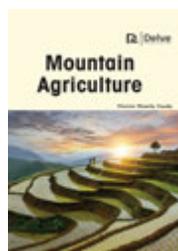
Esha Rami

This book contains a description of the current and developing diagnostic and treatment techniques and technologies comprising in vitro fertilization (IVF). Arranged confined in sections, each chapter covers a key topic in IVF in a sensible presentation. In vitro fertilization (IVF) is a complex series of procedures, the most common form of assisted reproductive technology and is used in the management of patients with difficulty undergoing conception. The sections that follow provide detailed descriptions of the History of IVF, why is IVF, Pre IVF evaluation, evaluation of infertility in men, Factors affecting IVF success, Methods which are used in IVF, Complications associated with, Ethical issues regarding IVF, It's cost and what is the future?. Each book chapter is strong enough to stand alone if readers decide to pick and choose among the topics of interest related to IVF. This book guides readers through every step of human-assisted conception, from patient pre-treatment to monitoring of outcomes also provides an excellent resource for physicians, fellows, IVF nurses, and laboratory personnel.

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Mountain Agriculture

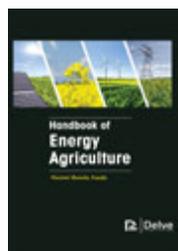
Hazem Shawky Fouda

Mountains represents one fifth of the world's land area, also about one tenth of the world's population lives there, mountains are not just for spending some nice time and lovely vacation with mother nature. Mountains can produce a large variety of crops that are not available from the plains. There are two main general challenges facing mountain agriculture that includes: Market accessibility, which is not exclusive to selling the products but also sourcing the inputs as well, as they are usually far from the community clusters. Labor availability, mountain agriculture is a family based agriculture as no one will go far to a mountain and get up it to find work, in the same time mountain agriculture faces out-migration to cities and community clusters for high education and better jobs. Mountain agriculture has big economic development potential and its contribution to food security can be easily increased by increasing its efficiency and maintaining its biodiversity, this book is addressing the real potential of mountain farming.

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Hazem Shawky Fouda has a PhD. In Agriculture Sciences, obtained his PhD. from the Faculty of Agriculture, Alexandria University, 2008, MSc. In Agriculture Sciences from the Faculty of Agriculture, Alexandria University in 2004, Post-Grade Diploma in Cotton, 2001, BSc. in Agriculture Sciences, from the Faculty of Agriculture, Alexandria University, 1997, He worked in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till 2018. Was working in the International Cotton Training Center (ICTC) – Cotton Arbitration & Testing General Organization (CATGO) from 2000 till 2015, as a Lecturer & Classer's Trainer for Egyptian and foreigner classes, technicians, ginners, spinners & traders in all cotton aspects starting from picking seed cotton till preparing bales for export including other cotton aspects and training them practically on classing cotton. Besides that he was an editor and active member in the Research & Translation Committee, participating in issuing weekly, monthly and annually issues about the international & local cotton market including price trends and direction, recent developments & researches concerning cotton production, protection, harvesting, ginning, fiber testing, spinning & weaving since its foundation in 2000 till 2014 and since 2015 till 2018 he worked as an inspector, from 2018 till present works as a consultant.



Handbook of Energy Agriculture

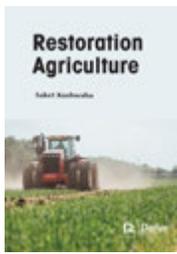
Hazem Shawky Fouda

Energy is the effort for doing work, nothing can be done without energy, and there are many forms of energy. Energy and its consumption is the core of modern life, energy is never destroyed nor created from nothing. It is just transferred from one form to another, doing work in the process. Degree of energy usefulness to us is determined by its form and type. In agriculture energy is important for production its type and source is extremely important for production and transportation of that production, heat in the form of solar energy is vital for plant growth and maturity because it's the type that plant needs, while other types that can be electricity or fossil energy needed for water pumping for irrigation. Energy has always been the driving force of development, sustainability in energy availability is critical for the continuity of production and life. The book highlights the current trends in modern energy consumption and future needs of energy in Agriculture.

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About the Author

Hazem Shawky Fouda has a PhD. In Agriculture Sciences, obtained his PhD. from the Faculty of Agriculture, Alexandria University, 2008, MSc. In Agriculture Sciences from the Faculty of Agriculture, Alexandria University in 2004, Post-Grade Diploma in Cotton, 2001, BSc. in Agriculture Sciences, from the Faculty of Agriculture, Alexandria University, 1997, He worked in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till 2018. Was working in the International Cotton Training Center (ICTC) – Cotton Arbitration & Testing General Organization (CATGO) from 2000 till 2015, as a Lecturer & Classer's Trainer for Egyptian and foreigner classes, technicians, ginners, spinners & traders in all cotton aspects starting from picking seed cotton till preparing bales for export including other cotton aspects and training them practically on classing cotton. Besides that he was an editor and active member in the Research & Translation Committee, participating in issuing weekly, monthly and annually issues about the international & local cotton market including price trends and direction, recent developments & researches concerning cotton production, protection, harvesting, ginning, fiber testing, spinning & weaving since its foundation in 2000 till 2014 and since 2015 till 2018 he worked as an inspector, from 2018 till present works as a consultant.



Restoration Agriculture

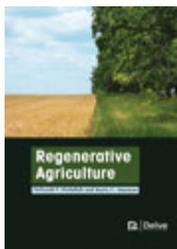
Saket Kushwaha

In many communities in the world, the population lives on agriculture. Smallholder agriculture covers 75% of agricultural production, most of which are rain-fed agriculture. This number indicates that the impact of population explosion in rural areas is prompting communities to adopt unsustainable farming practices, like burning of tropical rain forests to grow crops, planting on steep slopes, entering fragile marginal ecosystems, and overgrazing and over cropping. This volume estimates that one-sixth of the globe's land area (nearly 2 billion hectares) has been degraded due to overgrazing and negative farming practices. Water supply for agricultural purposes is becoming scarcer, and there is almost no land reserve that can be used to expand the agricultural base. Come 2025, nearly 3 billion people in 48 countries shall be affected by severe water shortages throughout the year or some months. The volume recommends suitable and site-specific technologies to reverse poverty and food insecurity issues. Some of the chapters mentioned include: chapter 1: philosophies of restoration agriculture on small farms, chapter 2: soil food web and chapter 3: conservation farming among others. Both scientific and indigenous knowledge available to the community should effectively facilitate this process, and farmers must actively participate in designing, implementation and evaluation of these technologies.

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About the Author

Prof. Saket Kushwaha, currently the Vice Chancellor of Rajiv Gandhi University is specialized in resource management and sustainable agriculture development. After his higher studies from Banaras Hindu University, he joined Abubakar Tafawa Balewa University (ATBU), Bauchi, Nigeria in 1993 and taught various courses on Agriculture Economics and Management at undergraduate, post graduate and Ph.D. level. Prof. Kushwaha rose to the rank of Professor at ATBU in the year 1999 and in 2006 he joined Banaras Hindu University (BHU), India as professor in agriculture economics and became the Vice Chancellor of Lalit Narayan Mithila University for one term 2014-2017. He has more than 100 publications in national and international journals of repute, supervised 24 Ph.D. students and authored 17 books / book chapters. Prof Kushwaha is life member of 10 Professional Bodies and sits in the panel of editorial boards. Worked extensively in the field of Zero Emission Research Initiatives (ZERI) propagating the mission of sustainable development under the aegis of "Waste is Wealth" concept. He is also the recipient of 17 national and international awards which includes award from Sulabh International Gold Medal in 2016 for sanitation management. 27 years of teaching, research, extension and community service experience with 23 years in administration. Handled over 10 national and International projects majorly funded by World Banks. Coordinated USAID project on Cowpea Research Support Programme (CRSP) in Nigeria for 10 years from 1996 to 2006. Working with NGOs and mega agriculture farms for Green Farm Planning.



Regenerative Agriculture

Nekesah T. Wafullah and Kuria C. Munene

Rodale Institute one of the most reputable institute in organic farming first used the term regenerative farming in the early 1980s. Although the interest of this term did not become popular in the 1980s, there is a renewed interest due to the contribution of agriculture to greenhouse gasses. While some people emphasize on how huge its benefits are, there are some with reservations due to difficulties to estimate the exact benefits attributed to RA. This book provides the audience with an overview of RA, its rationale, critics, and principles in order to accurately understand RA potential and limitations. The book also gives the audience with some tool to measure and quantify the impact of RA and some farming practices that are considered s RA. Filled with great examples and case study, this book is an invaluable source of information for people seeking to know or practice RA.

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About the Authors

Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M Sc. In Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.

Kuria C. Muene is an agriculture graduate with a masters degree in Agricultural and applied economics. He has extensive knowledge in agricultural research, policy analysis, supply chains, project management and crop management. He has experience in the use of data analysis tools that led to high-quality inferences for the betterment of the agriculture sector. He is an avid reader and an outdoor sports enthusiast in his spare time.



Turf Grass and Lawn management

Nekesah T. Wafullah and Kuria C. Munene

There is prestige in a well-manicured landscape. Apart from the prestige well established and maintained lawns act as green spaces that have societal, economic, health and economic benefits. This book guides the audience on some creative ideas of lawns, the grass and grass alternatives to use, and machinery to use in lawn establishment and maintenance. The book also describes in detail how and when to establish a healthy lawn.

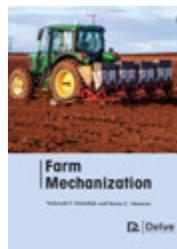
The book also goes further and explains how to establish artificial lawn. This book also acts as guide in maintenance of newly established lawns, old lawns, and artificial lawns. The book gives the audience a list common lawn pest, diseases, and weeds and how to identify and treat or prevent them biologically, chemically, and culturally. A poorly managed or established turf or lawn presents a big risk as compared to advantages. Therefore, a good plan is very critical before establishing both artificial or natural lawn.

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About the Authors

Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M Sc. In Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.

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Farm Mechanization

Nekesah T. Wafullah and Kuria C. Munene

Farm Mechanization has been identified as one of the factors that can promote the achievement of food security among both developed and developing countries. However, with the current trend of sustainable agriculture that promote conservation agriculture (CA) some of the farm machineries are highly discouraged while others act as complements or substitutes to CA. This book elaborates on some of the factors to consider in the

and utilization of a farm machine. This book walks the audience on the different farming tasks, the objective of the task and the best machinery to use to achieve this task while at the same time considering cost and environmental sustainability. The book also identifies the different issues such as Environment, Gender, Economic, Policy and Institutional issues that are related to agricultural mechanization. The understanding of these issues helps stakeholders to design policies and products that are tailored to the needs of farmers. By helping the users of the book understand the effect of farm machinery use, this book can be used to guide proper adoption of farm machinery.

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Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M Sc. In Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.

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Conservation Agriculture to Soil Health and Management

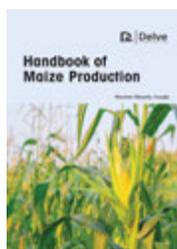
Nekesah T. Wafullah

Many functions have been attributed to soil, with some even suggesting soil is important in all sectors of production. In this book we build a case for the importance of soil in agricultural production. For the soil to remain as productive and important for agricultural production, it is vital that we maintain certain characteristics of soil. The maintenance of the characteristics requires a proper understanding of soil rather than a passive application of soil management practices. This book gives the audience an understanding of the soil, some soil degrading processes, and management practices that maintain soil health. The book also ways to prevent, manage and rejuvenate soils degraded physically, biologically and or chemically. Due to the misuse of especially inorganic/mineral fertilizer, the book take time to explain and guide the audience on the process that lead to recommending use of fertilizers. The book also explains some soil problems, their effects and some of the environmentally friendly techniques to tackle this soil problems. Proper soil health management is key, for economic, social, health and environmental benefits, therefore this book takes a wholistic approach to guide the audience on soil health management.

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About the Author

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Handbook of Maize Production

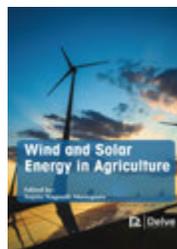
Hazem Shawky Fouda

This book provides a brief introduction to maize production. This book also tends to explain the significance of tropical mariculture. It addresses various environmental impacts of mariculture, along with the economic as well as social impacts. It also outlines various methodologies related to mariculture, farming technologies, and various mariculture species as well. In addition to this, it emphasizes the sustainability, regulations, and future of mariculture.

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About the Author

Hazem Shawky Fouda has a PhD. In Agriculture Sciences, obtained his PhD. from the Faculty of Agriculture, Alexandria University, 2008, MSc. In Agriculture Sciences from the Faculty of Agriculture, Alexandria University in 2004, Post-Grade Diploma in Cotton, 2001, BSc. in Agriculture Sciences, from the Faculty of Agriculture, Alexandria University, 1997, He worked in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till 2018. Was working in the International Cotton Training Center (ICTC) – Cotton Arbitration & Testing General Organization (CATGO) from 2000 till 2015, as a Lecturer & Classer's Trainer for Egyptian and foreigner classes, technicians, ginners, spinners & traders in all cotton aspects starting from picking seed cotton till preparing bales for export including other cotton aspects and training them practically on classing cotton. Besides that he was an editor and active member in the Research & Translation Committee, participating in issuing weekly, monthly and annually issues about the international & local cotton market including price trends and direction, recent developments & researches concerning cotton production, protection, harvesting, ginning, fiber testing, spinning & weaving since its foundation in 2000 till 2014 and since 2015 till 2018 he worked as an inspector, from 2018 till present works as a consultant.



Wind and Solar Energy In Agriculture

Sujata Nagnath Mustapure

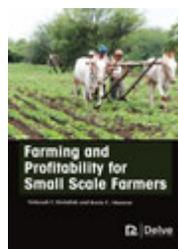
Renewable energy is now powering or assisting several numbers of on-farm necessity of energies, and that varies from water pumping to space heating. Both, farmers as well as ranchers are now increasingly selling energy and utilising these energies into the industry of agriculture (for example, application of solar energy and wind energy).

This book takes the readers through an overview of agriculture, its history, and their types. This book further sheds light on the significance of renewable energy in the industry of agriculture and various applications of these renewable energy (solar energy and wind energy) in agriculture.

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About the Editor

Dr. Sujata Nagnath Mustapure is a teaching associate, Department of Electrical & Other Energy sources, College of agricultural engineering & Technology, Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani. She obtained her B.Tech (Agril. Engg.) in 2010 from Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani. Gold medal in M.Tech (Agril. Engg.), 2014 from Dr. Panjabrao Deshmukh Krishi Vidhyapeeth, Akola and Ph.D in Renewable energy engineering in 2019 from Maharana Pratap University of Agriculture and Technology, Udaipur. She has also worked as assistant professor in College of Agricultural, Naigoan, Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani. She has authored several national and international publications.



Farming and Profitability for Small Scale Farmers

Nekesah T. Wafullah and Kuria C. Munene

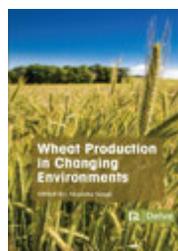
Globally most farmers are considered small scale. For some time, small scale farmers have been ignored. But, with the realization that they play a major role in poverty eradication and achieving food security in both developing and developed countries, governments and stakeholders have put in place measures to promote it. This book looks at some profitable small-scale farm enterprises that different stakeholders promote and how to carry them out profitably. The audience will be taken through general characteristics that qualifies a small-scale farmer and some factor that may determine the profitability of the farmers. The book also highlights some small-scale farming schemes like inclusive value chains that help the small-scale farmer to profitably take advantage of the local and global market. By expounding the benefit and dynamics related to small-scale farming, this book shows some of the strategies that small-scale farmers can be transformed to be more profitable. For small-scale farming to be more profitable the book describes some Good Agricultural Practices (GAPs) that a farmer can comply with in order to access the Global market.

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About the Authors

Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M.Sc. In Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.

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Wheat Production in Changing Environments

Akansha Singh

Wheat is an important cereal food crop ranked as the third-largest crop produced worldwide. The vulnerability in wheat production due to changing climatic scenarios are seen worldwide. This book enlightens the readers with the wheat crop history of its cultivation practices, prebreeding, agronomic practices, genetics, and breeding, different types of wheat and their utilization. This book is an ideal resource that encompasses challenges associated with changing climate and wheat production. The abiotic and biotic stresses that are affecting wheat crop yield and approaches to combat the issue are also worth reading. This book has been designed to suit the knowledge and pursuit of the researcher and scholars and to empower them with various aspects of the production of wheat so that they are updated with the information. I hope that the readers find the book explanatory and insightful and that this book is referred by the scholars working for wheat improvement.

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About the Editor

Dr. Akansha Singh, is presently working as Associate Professor & Head, Department of Genetics and Plant Breeding, College of Agriculture, Parul University, India. She graduated from the Banaras Hindu University, with doctorate in Genetics and Plant breeding in the year 2012. She has also worked as Research Scientist in Bioved Research Society, Allahabad, India. She was working as Postdoctoral fellow in University of Mumbai before joining her current position. She has authored a number of national and international publications.



Genome Edited Plants

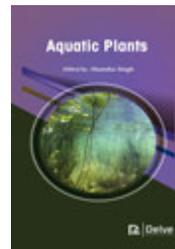
Shivsanjeevi Sripathi

The concept of domesticating plants dates back to ancient times with initial dependence on natural changes and later approaches using mutagenesis. In order to address the issue of food insecurity due to population demands, decrease in arable land (due to excessive human interference) and climate change, the concept of “gene editing” is being pursued among the slew of approaches by researchers. This book comes at a time given that the year 2020 was ten years since the use of homing endonucleases and zinc finger nucleases to produce the first gene-edited plants. The year 2012 saw the emergence of CRISPR/Cas9, which subsequently altered the arena of gene editing to receive “The Nobel Prize in Chemistry, 2020.” The book concisely summarizes the concept of genome editing and its relevance in plants along with the approach, as described by research. Latest developments in approaches along with case studies and examples of genome editing have been elucidated. Further, the current scenario of the regulatory checklists across several countries concerning genome-edited plants has also been presented to enable a reader to gain a complete picture.

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About the Editor

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane” following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



Aquatic Plants

Akansha Singh

Aquatic plants are plants that grow in and around water and have structural, functional, and economical roles in an aquatic ecosystem. This book covers biology and the importance of aquatic plants in food, health, and biofuel industries. This book also discusses their role in water treatment and resource recovery. This book also enlightens the readers about the different types and uses of aquatic plants. Additionally, this will provide highlights on the anatomy of aquatic plants, anatomical adaptations of aquatic plants, life forms of the aquatic plants, evolution, distribution and diversity of aquatic plants, cellular biology, physiology, and morphological adaptations of the aquatic plants. This book also sheds light on the future economic and environmental impacts of microalgal technology. This book also mentions the impact of changing the global environment on the water plants, environmental impacts of the microalgae technology, impacts to aquatic biodiversity, and terrestrial impacts. This book is an important resource material for students of undergraduate, postgraduate and research scholars working the field of hydroplant ecosystem. This book has been designed to suit the knowledge and pursuit of the researcher and scholars and to empower them with various aspects of the aquatic plants, so that they are updated with the information.

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About the Editor

Dr. Akansha Singh, is presently working as Associate Professor & Head, Department of Genetics and Plant Breeding, College of Agriculture, Parul University, India. She graduated from the Banaras Hindu University, with doctorate in Genetics and Plant breeding in the year 2012. She has also worked as Research Scientist in Bioved Research Society, Allahabad, India. She was working as Postdoctoral fellow in University of Mumbai before joining her current position. She has authored a number of national and international publications.



Plant-Pest Interactions

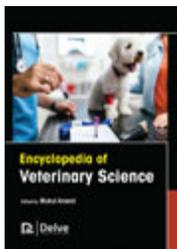
Kiran Abasaheb More

Pests and plant interaction is a dynamic system, which is beyond our Imaginations and thoughts in the universe. Plants and insects are highly diverse groups due to their ability to exploit a wide range of niches, from the desert to the arctic zone and also almost all the plant species growing on the planet. Plants and insects make up together approximately half of all known species of multicellular organisms. Each plant interacts with insects in a different manner; insects may act as protection, dispersers, or fertilizers for plants while plants may be a food/energy resource or nest location for insects. In an environment with changing availability and quality of host plants, phytophagous insects are under selection pressure to find quality hosts. They need to maximize their fitness by locating suitable plants and avoiding unsuitable ones. Thus, they have evolved a finely tuned sensory system, for detection of host cues, and a nervous system, capable of integrating inputs from sensory neurons with a high level of spatio-temporal resolution. Insect responses to cues are not fixed but depend on the context in which they are perceived, the physiological state of the insect, and prior learning experiences. However, there are examples of insects making ‘mistakes’ and being attracted to poor quality hosts. While insects have evolved ways of finding hosts, plants have been under selection pressure to do precisely the opposite and evade detection or defend themselves when attacked. Once on the plant, insect-associated molecules may trigger or suppress defence depending on whether the plant or the insect is ahead in evolutionary terms. Plant volatile emission is influenced by defence responses induced by insect feeding or oviposition which can attract natural enemies but repel herbivores. Conversely, plant reproductive fitness is increased by attraction of pollinators. Interactions can be altered by other organisms associated with the plant such as other insects, plant pathogens, or mycorrhizal fungi. Plant phenotype is plastic and can be changed by epigenetic factors in adaptation to periods of biotic stress. Space and time play crucial roles in influencing the outcome of interactions between insects and plants. This book has been designed to suit the knowledge and pursuit of the researcher and scholars and to empower them with various aspects of plant-pest interactions, so that they are updated with the information. I hope that the readers find the book explanatory and insightful and that this book is referred by the scholars across various fields.

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About the Editor

Dr. Kiran Abasaheb More, born in Bhogaon (Devi) Tahsil Jintur of Parbhani district of Maharashtra, India, in 1978, completed M.Sc in Botany, at Shree Shivaji College Parbhani, Maharashtra, Affiliated with Swami Ramanand Teerth Marathwada University Nanded, Maharashtra. The author also completed his Ph.D in 2010 in field of Taxonomy of Angiosperms and he joined the department of Botany, Yashwantrao Chavan Arts and Science Mahavidyalaya, Mangrulpir as an Assistant Professor. He is the Chief Editor of Research Journal Multilogic in science (Journal for Applied science), He edited more than 35 issues of research journals and authored 25 research papers. Dr. More is awarded by Young scientist award of Science and tech society for Integrated ruler improvement Telangana, and also awarded by Excellence in Teaching GENESIS ARBAN & RULER DEVELOPMENT SOCIETY at the occasion of ICAAASTSD International conference 2018. He is the editor of proceeding of International conference on Advances in Agriculture and Allied science technologies for sustainable Development Society Special issue Jan 2018 and he is a Life Member of “GUARD Society”. He also chaired a number of National and International Conferences, he is also a Member of Botany teacher association of Sant Gadge baba Amravati University Amravati, Maharashtra, India.



Encyclopedia of Veterinary Science

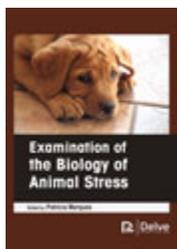
Mukul Anand

Veterinary medicine is an art and science at the same time. Veterinary clinical practice requires a comprehensive understanding of numerous scholarly disciplines including math, biology, chemistry, and physical science, and prompting review in veterinary colleges. Notwithstanding a level of benevolence, veterinary medicine requires great communication skills, cooperative skills, the capacity to work with others, just as empathy for individuals and animals. This prologue to veterinary science gives a strong basis in this dynamic space for those concentrating on animal and veterinary research or getting ready for professions as veterinary specialists or experts. The paper outlines animal cell and tissue physiology, including sections devoted to individual body structures to allow for simpler understanding. The authors explore significant themes like nutrition, illness, and surgeries, cost review of systems, wellbeing, and professionalism. Throughout the paper, real-life models are incorporated with content material to offer pragmatic context, and both small and big animals are included to expose learners to different cases they might experience in the field.

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About the Editor

Dr. Mukul Anand is working as an assistant Professor, Department of Veterinary Physiology, College of Veterinary Science & Animal Husbandry UP Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vishwavidyalaya Evam Go Anusanthan Sansthan, India. He has many years of experience in academics and teaching. He has published many books and research papers at national and international level.



Examination of the Biology of Animal Stress

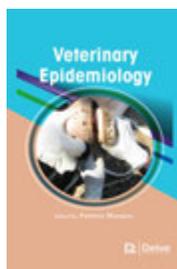
Patricia Marques

Stress in general is looked upon as a symptom resulting from exposure of an animal to a hostile environment. To some it is a nonspecific response to all environmental forces; others feel there are specific stress symptoms caused by specific environmental forces. The term stress is sometimes used to describe the hostile environment. Measuring the magnitude of stress often means measuring the degree of adaptation. The important function of livestock management is to avoid the detrimental adaptations and capitalize on the advantageous ones. Animal Welfare, Behavior and Stress are biological measures of stress. Animals can be used as models of PTSD, Depression and other diseases.

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About the Editor

Patricia obtained her PhD from University College Dublin in 2010. Her interests are on Microbiology and Parasitology. She is currently working as a Postdoc at University of Maryland Baltimore, USA on Chlamydia infections



Veterinary Epidemiology

Patricia Marques

Veterinary epidemiology is the study of the distribution and determinants of animal health-, welfare- and production- related states or events in specified populations and the application of this study to control of health problems. Epidemiology is the study and analysis of the distribution (who, when, and where), patterns and determinants of health and disease conditions in defined populations. It is a cornerstone of public health, and shapes policy decisions and evidence-based practice by identifying risk factors for disease and targets for preventive health-care. Epidemiologists help with study design, collection, and statistical analysis of data, amend interpretation and dissemination of results (including peer review and occasional systematic review). Epidemiology has helped develop methodology used in clinical research, public health studies, and, to a lesser extent, basic research in the biological sciences.

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About the Editor

Patricia obtained her PhD from University College Dublin in 2010. Her interests are on Microbiology and Parasitology. She is currently working as a Postdoc at University of Maryland Baltimore, USA on Chlamydia infections



Diagnostic Tools in Veterinary Medicine

Patricia Marques

The Key Components of Veterinary Diagnostic System are Vet Laboratory, Vet Devices and Veterinary Diagnostic Test Kits. Traditionally, laboratory diagnostics for veterinary pathogens have relied on methods of detecting the pathogen by culture or antibodies, using varied techniques, such as neutralization, Enzyme-linked Immunosorbent Assay (ELISA), agar gel immunodiffusion, and complement fixation. Over the years, veterinarians have incorporated new molecular diagnostic techniques, such

as Polymerase Chain Reaction (PCR) and Western blot, as well as improved older techniques by using recombinant antigens, monoclonal antibodies, and synthetic peptides. Despite the routine use of conventional diagnostic assays, new molecular techniques have enabled veterinarians to use new tools for rapid and specific diagnosis of animal disease in real-time. The globalization of trade in animals and animal products is a major driver for the improvement of the analytical and diagnostic quality of tests.

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About the Editor

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Animal Biotechnology

Khushboo Chaudhary and Pankaj Kumar Saraswat

Animal biotechnology has been used to produce genetically modified animals that synthesize therapeutic proteins, have improved growth rates or are resistant to disease. This book deals with introduction to biotechnology, scope of animal biotechnology, importance given to animal biotechnology, requirements of cloning vector, characteristics of a vector used in animal genetic engineering, gene transfer methodology, detect desired DNA, RNA and proteins by blotting techniques, basic procedure of hybridization, screening of DNA library, polymerase chain reaction and their types with applications, animal tissue culture technology and their uses, transgenic animal technology, gene therapy, bioethics and intellectual property rights.

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About the Authors

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

Dr. Pankaj Kumar Saraswat, graduate of R.B.S. College Bichpuri Agra University 1996, completed Masters and Doctorate degree in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004 respectively. Dr. Saraswat started his career as a lecturer in Soil Science in 2005 at H.N.B. Garhwal University Srinagar Garhwal and thereafter joined KVK Banasthali Vidyapith Tonk Rajasthan as Subject Matter Specialist (Soil Science). He has worked as a young scientist in SERCDST New Delhi-funded research project and as P.I. in a DST-Rajasthan-funded research project during 2010-2015 and organized the 04 INSPIRE Internship Science camp under SEAT program of DST New Delhi for 10th pass top 1% students of CBSE & Rajasthan Board. In October 2015 Dr. Saraswat joined ICAR-RC for N.E.H. Region Umiam as Senior Scientist cum Head at KVK Tamenglong Manipur and was promoted to Principal Scientist cum Head in October 2020. He has worked as P.I. and Co-P.I. in 04 Institute and 01 NEC-Govt. of India-funded projects at KVK Tamenglong Manipur. He has 25 research papers, 07 project reports, 05 books, 02 training manuals, 30 popular articles to his credit in the field of agriculture and applied science. Presently He has been working as Principal Scientist cum Head at KVK-National Dairy Research Institute Karnal Haryana for technology assessment and demonstration for wider application with capacity development of farmers, farm women, rural youth, line departments and other stakeholders.



Veterinary Public Health

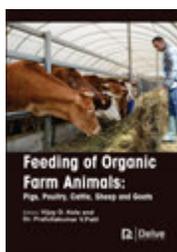
Patricia Marques

Veterinary public health is a component of public health that focuses on the application of veterinary science to protect and improve the physical, mental and social well-being of humans. Veterinary public health concerns the surveillance and control of zoonoses at many different levels be it via disease control programs at farm level or wild animals or in the abattoir. One Health is "the collaborative efforts of multiple disciplines working locally, nationally, and globally, to attain optimal health for people, animals and our environment", as defined by the One Health Initiative Task Force (OHITF). A major zoonosis is Rabies. Approximately 5,000 animal rabies cases are reported annually to CDC, and more than 90% of those cases occur in wildlife.

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About the Editor

Patricia obtained her PhD from University College Dublin in 2010. Her interests are on Microbiology and Parasitology. She is currently working as a Postdoc at University of Maryland Baltimore, USA on Chlamydia infections



Feeding of Organic Farm Animals: Pigs, Poultry, Cattle, Sheep and Goats

Vijay D. Kele and Dr.Prafullakumar V.Patil

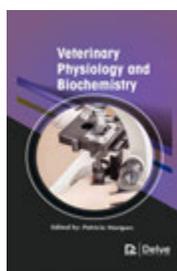
Organic Livestock farming, as the name implies, provides information on different aspects related to organic dairy farming, goat farming, sheep farming etc. The detailed information regarding the importance of organic farming, the future of organic livestock farming, opportunities and challenges in front of organic livestock farming, attracts the early attention of readers. The topic 'Threats facing and development of organic livestock farming' is a very important topic that explains how organic livestock farming could be developed by overcoming the threats. The book has covered the chapters from the introduction of organic livestock farming to the marketing of organic products. The information in this book will be of practical utility for the actual management of animals in organic livestock farming e.g. Organic livestock feed and their benefits, factors influencing organic livestock, establishing organic farms, problems encountered in developing organic animal husbandry, raising organic pigs, goats, sheep, poultry etc. The book also covers criteria for the certification of organic cattle, sheep, goat, pigs, poultry etc. This book is written in simple understandable language with a description of those concepts which are useful for the actual production of organic livestock products. This book covers basic information on organic farming up to the development of successful organic livestock products, certification and marketing. Especially this book will be most beneficial to Veterinary, Dairy technology and dairy science students and animal and human health workers for the production of organic livestock products to prevent ill effects of different chemical residues in livestock products on human and animal health. Organic livestock farming book is act as a guide for Veterinary, Dairy technology, dairy science scientists, students to increase organic livestock production and to make a quick review of the subject. This book is also helpful for preparations of different examinations related to animal husbandry and general awareness among the people on different aspects of organic animal husbandry.

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About the Editors

Dr. Vijay Kele is presently serving as Associate Professor, Department of Dairy Technology and Food Technology, PIT, Parul University, Vadodara, Gujarat. He obtained his B. Tech (Dairy Technology) from MAFSU, Nagpur, M. Sc. (Dairy Science), MBA (Food & Agribusiness Management) & secured 04 gold medals from University of Mysore, Mysore and Doctorate in Dairy Extension Management from Nagpur. He having 11 years of Teaching and 03 years of industrial experience. He has published 04 books and 18 research paper in National and international journals of reputed, popular article 87, extension article 72 however 14 radio talk and 02 television live talk on Doordarshan. He has participated many National, State Seminar and symposiums. He has written 22 practical manuals for under graduate course for the benefit of students besides Lectures in farmer training programme, organized 133 farmers scientist meets, organized 14 exhibitions. He has organized 73 webinars, 07 STTPs (one week), 12 Workshop and 01 FDP. As per research concern received grants for 04 projects from ICAR, Gujcost, SSIP (Govt. of Gujarat) However 02 Patents in his credits.

Dr.Prafullakumar V.Patil, presently working as a Farm Manager at Veterinary College, Udgir. He did his Master degree in Animal Nutrition in 2006 from MAFSU, Nagpur. He has qualified ICAR, NET examination in 2010. Now, pursuing PhD in Animal Nutrition at the College of Veterinary Science and Animal Husbandry, Anjora, Durg, Chhattisgarh. He is actively engaged in research, extension and clinical activities for the last 15 years. Also engaged in teaching from the last five years. He has published 37 research papers and 7 review papers in national and international journals along with 242 popular articles. He has received the best poster presentation award in the national symposium at PGIVAS, Akola (Maharashtra) in 2019. He has received a number of honours/awards for best extension work in the veterinary field. He has organized more than 21 trainings for field veterinarians; farmers etc. He has organized and participated in more than 150 farmers meet along with 45 animal health camps. He has authored two textbooks viz. 'Handbook of Animal Nutrition' and 'Milk production management' in English and two books in Marathi. He has participated in more than 80 training programmes as a resource person and also conducted more than 130 demonstrations for field veterinarians, farmers and unemployed youths. He has also prepared an album of different feed ingredients and fodders. He has also acted as editor for 6 booklets on 'Profitable goat farming', 'Profitable dairy farming', 'Scientific poultry farming', 'Backyard poultry farming', 'Fodder production and management', 'Nutritional management of animals during scarcity period'.



Veterinary Physiology and Biochemistry

Patricia Marques

Veterinary physiology deals with the investigation of animal systems and the functioning of these biological systems. It includes the study of study of how animals work and the physical and chemical processes that occur within animals. ... Veterinary physiology includes both anatomy and physiology of an animal. In veterinary education and research, biochemistry is highly relevant to the metabolism and function of animals in health and disease and forms the basis for an intelligent understanding of major aspects of veterinary science and animal husbandry.

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About the Editor

Patricia obtained her PhD form University College Dublin in 2010. Her interests are on Microbiology and Parasitology. She is currently working as a Postdoc at University of Maryland Baltimore, USA on Chlamydia infections



Animal Coronaviruses

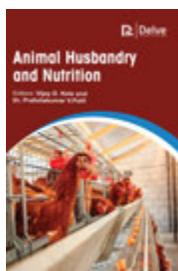
Shraddha Gautam

Coronaviruses (CoVs) are a family of enveloped single-stranded RNA viruses of medical and veterinary importance that infect mammals and birds, causing respiratory or enteric diseases. The book draws attention to the lessons accumulated from the large number of studies of the pathogenesis of animals and birds' coronaviruses and their vaccines, particularly the bovine, feline, and avian coronaviruses. The lessons drawn from the studies will have an immense influence on how the human coronaviruses pathogenesis and vaccine development will proceed. In addition, the extensive efforts to designate suitable animal models to study the lately emerged human coronaviruses are one of the invaluable contributions carried out by veterinarian scientists.

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About the Author

Shraddha Gautam is an accomplished Sr. Scientist, at Advancells, with 16 years of onsite experience, mainly in the therapeutic application of regenerative medicine and regulatory support. She has a proven ability to foster technological advancements and quality excellence. She has been a part of India's top most institutions facilitating stem cell research and therapeutic applications and has gained extensive experience in the field of stem cell biology, its technological advancements and clinical implementation. She has acquired in-depth understanding of regulatory parameters required to be fulfilled for smooth implementation of science in clinical practice. Embracing the core values of integrity, growth and compassion; Shraddha is continuing her contributions to the field of stem cell technology and cellular therapies by presenting many research publications in renowned medical journals.



Animal Husbandry and Nutrition

Vijay D. Kele and Dr.Prafullakumar V.Patil

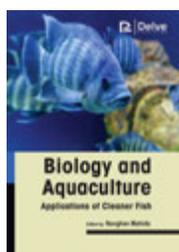
The concepts of animal husbandry, its introduction, the technology and the science behind it has been discussed in detail in this book. It also discusses the techniques implemented in animal husbandry, and sheds light on the history and importance of animal nutrition along with the feeding standards for animals. It elucidates the dairy farm management, and highlights the significance of cattle breeding and their characteristics. This book also addresses the present and future of animal nutrition.

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About the Editors

Dr. Vijay Kele is presently serving as Associate Professor, Department of Dairy Technology and Food Technology, PIT, Parul University, Vadodara, Gujarat. He obtained his B. Tech (Dairy Technology) from MAFSU, Nagpur, M. Sc. (Dairy Science), MBA (Food & Agribusiness Management) & secured 04 gold medals from University of Mysore, Mysore and Doctorate in Dairy Extension Management from Nagpur. He having 11 years of Teaching and 03 years of industrial experience. He has published 04 books and 18 research paper in National and international journals of reputed, popular article 87, extension article 72 however 14 radio talk and 02 television live talk on Doordarshan. He has participated many National, State Seminar and symposiums. He has written 22 practical manuals for under graduate course for the benefit of students besides Lectures in farmer training programme, organized 133 farmers scientist meets, organized 14 exhibitions. He has organized 73 webinars, 07 STTPs (one week), 12 Workshop and 01 FDP. As per research concern received grants for 04 projects from ICAR, Gujcost, SSIP (Govt. of Gujarat) However 02 Patents in his credits.

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Biology and Aquaculture Applications of Cleaner Fish

Navghan Mahida

The control of parasites in fish farms has traditionally involved the use of pesticides, either as bath treatments or by oral administration. The search for other ways to control the incidence of parasites is now being intensified to improve fish quality, safer final product, and lower environmental impact. The addition of cleaner organisms as biological control agents has broadened the perspective of rearing fish in a more environmentally friendly way. In the marine environment, the interspecific relationships between fish are ubiquitous and are commonly described as beneficial interactions where a smaller species (cleaners) remove parasites and infected tissue from the body surface, mouth, and gill chambers of other fish. Furthermore, in certain cases, the need to seek cleaning seems to go beyond the question of parasite removal; it is also about gaining physical contact and other health benefits. However, the inclusion of cleaner fishes to the farming system adds another organism to the production effort, whose biology is, in most cases, unknown to the industry. This raises another layer of challenges, not only in terms of rearing a novel species but also in terms of the welfare of the cleaners themselves. Therefore, this is a field that deserves further attention and research, to establish better welfare standards and lower disease outbreaks for farmed fish, both cleaners and clients. This book introduces important cleaner fishes that can reap benefits to the fish farming communities. The problems associated with freshwater aquaculture have been emphasized. The advancements in freshwater aquaculture and the present situation regarding the tools being used are explained. The impact of aquaculture on the environmental factors was explained in this book. The socio-economics of the cleaner fish aquaculture is explained in this book. This book serves as a handbook for the students across all the subject areas who are interested in either pursuing a career in aquaculture or research in similar fields.

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About the Editor

Dr. Navghan Mahida is a self-motivated fisheries scholar by qualification with over five years of work experience, including over 9 training programs and work exposure, possesses qualities of leadership, good communication & interpersonal skills, to do attitude, and ability to quickly adapt new environments. He is working as Assistant Professor in the Department of Animal Husbandry, Dairy and Fisheries, Parul University Vadodara-Gujarat. He had completed B.F.Sc (Bachelor of Fisheries Science) in 2012 from CoF-Veraval, Junagadh Agricultural University, Junagadh. He pursued M.F.Sc in 2014 and Ph.D. in 2019 from the Central Institute of Fisheries Education-Mumbai. He started his career as Fisheries Officer in the Government of Gujarat in 2013 and further worked in MNC Shoreline Aquaculture as Assistant Manager. He specialized in fisheries economics with commendable academic records and achievements. He has published 25 research papers in national and international peer-reviewed journals so far, including conduction and participation in conferences, conventions, symposiums, seminars, training, etc. He had written souvenirs for the students' convention programs and three popular articles. He is a lifetime member of fisheries and life sciences, the European Journal of fisheries. He is also a reputed editor in the journal of fisheries and life sciences, PLOS ONE San Francisco, California, USA, Asian Journal of Economics, Extension and Social Science Thailand etc.



The Differences between Intensive and Extensive Fish Farming

Navghan Mahida

The book encompasses the extensive fish farming system which is the least managed form of fish farming, in which little care is taken. This system involves large ponds measuring 1 to 5 ha in area with stocking density limited to only less than 5000 fishes/ha. No supplemental feeding or fertilisation is provided. Fish depends only on natural foods. Yield is poor (500 to 2 ton/ha), and survival is low. The labour and investment costs are low, and this system results in minimum income. An intensive fish farming system is the well-managed form of fish farming, in which all attempts are made to achieve maximum production of fish from a minimum quantity of water. This system involves small ponds/tanks/raceways with very high stocking density (10-50 fish/m³ of water). Fish are fed wholly formulated feed. Proper management is undertaken to control water quality by use of aerators and nutrition by use of highly nutritious feed. The yield obtained ranges from 15 to 100 ton/ha or more. Although the cost of investment is high, the return from the yield of fish exceeds to ensure the profit. The financial management in the intensive and extensive fish farming must be monitored by the farmers to forecast the yields. This book provide an insight on mitigation measures to be planned in advanced to minimize the losses incurred due to uneven growth rates or natural calamities. This book provides an introduction to intensive and extensive fish farming and it can be used by the undergraduates, postgraduates and research students who wish to work in the fish farming sector.

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About the Editor

Dr. Navghan Mahida is a self-motivated fisheries scholar by qualification with over five years of work experience, including over 9 training programs and work exposure, possesses qualities of leadership, good communication & interpersonal skills, to do attitude, and ability to quickly adapt new environments. He is working as Assistant Professor in the Department of Animal Husbandry, Dairy and Fisheries, Parul University Vadodara-Gujarat. He had completed B.F.Sc (Bachelor of Fisheries Science) in 2012 from CoF-Veraval, Junagadh Agricultural University, Junagadh. He pursued M.F.Sc in 2014 and Ph.D. in 2019 from the Central Institute of Fisheries Education-Mumbai. He started his career as Fisheries Officer in the Government of Gujarat in 2013 and further worked in MNC Shoreline Aquaculture as Assistant Manager. He specialized in fisheries economics with commendable academic records and achievements. He has published 25 research papers in national and international peer-reviewed journals so far, including conduction and participation in conferences, conventions, symposiums, seminars, training, etc. He had written souvenirs for the students' convention programs and three popular articles. He is a lifetime member of fisheries and life sciences, the European Journal of fisheries. He is also a reputed editor in the journal of fisheries and life sciences, PLOS ONE San Francisco, California, USA, Asian Journal of Economics, Extension and Social Science Thailand etc.



An Economic Analysis of Tilapia Farming in Developing Countries

Navghan Mahida

Tilapia cultivation has been found to be an effective tool for many developing countries for socioeconomic development by addressing some important issues like food-security and employment generation. Adoption of tilapia cultivation has increased over the decades because of easy management practice and versatile farming technologies have been observed worldwide. Tilapia gain popularity because of their excellent breeding capabilities, flesh quality, high growth rate, disease resistance and survival capabilities under different farming systems and environmental conditions. Such features boosting up rapid growth of tilapia producing industries in an impactful way, by involving poor and non-poor farming communities in some of the developing countries of Asian, African and South American continents. However, some problems still exists with cultivation of different tilapia varieties; such as the inadequate availability of quality fry, deterioration in seed quality, limited technical knowledge among farming communities and poor marketing strategies especially in some of these developing countries depriving its commercial success to some extent. This book describes a present scenario regarding potentialities and difficulties of commercial adaptation of Tilapia cultivation under socioeconomically constrained conditions.

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About the Editor

Dr. Navghan Mahida is a self-motivated fisheries scholar by qualification with over five years of work experience, including over 9 training programs and work exposure, possesses qualities of leadership, good communication & interpersonal skills, to do attitude, and ability to quickly adapt new environments. He is working as Assistant Professor in the Department of Animal Husbandry, Dairy and Fisheries, Parul University Vadodara-Gujarat. He had completed B.F.Sc (Bachelor of Fisheries Science) in 2012 from CoF-Veraval, Junagadh Agricultural University, Junagadh. He pursued M.F.Sc in 2014 and Ph.D. in 2019 from the Central Institute of Fisheries Education-Mumbai. He started his career as Fisheries Officer in the Government of Gujarat in 2013 and further worked in MNC Shoreline Aquaculture as Assistant Manager. He specialized in fisheries economics with commendable academic records and achievements. He has published 25 research papers in national and international peer-reviewed journals so far, including conduction and participation in conferences, conventions, symposiums, seminars, training, etc. He had written souvenirs for the students' convention programs and three popular articles. He is a lifetime member of fisheries and life sciences, the European Journal of fisheries. He is also a reputed editor in the journal of fisheries and life sciences, PLOS ONE San Francisco, California, USA, Asian Journal of Economics, Extension and Social Science Thailand etc.



Handbook of Mariculture

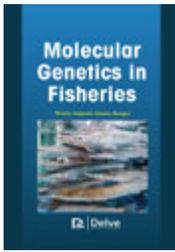
D. M. Pawar

Mariculture is an important role in world economy. From long period of time mariculture are cultivating their traditional way, but now a days adopting new technology and other experiences in their field. In this book takes the reader, types of mariculture and its operations along with the marine environment and structure for cultures. It also provides information regarding integrated multi-trophic aquaculture that is the IMTA, its concepts and current systems. It's also containing environmental and ecological impacts of mariculture and how to manage it. In this book, we include different concept and methodologies related to mariculture and contains the integrated fish farming, backyard re-circulatory aquaculture system and the different types of farming in mariculture. We accentuate the development of sustainable methods such as lagooning and artificial wetlands, sustainable feed management and use of chemicals. We shed lights on the future of mariculture as well as aquaculture, sustainable growth and development in various countries along with defining their diseases. This book has been designed to suit the knowledge and pursuit of the researcher and scholars and to empower them with the concepts of mariculture and aquaculture. I hope that the readers find the book descriptive and perceptive and that this book is referred by the scholars across various fields.

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About the Editor

Dr. Dnyaneshwar M. Pawar (1985) is presently serving as Assistant Professor, Department of Plant Pathology, college of Agriculture, Naigaon. He obtained his B. Sc. (Ag.) in 2008 from Marathwada Agriculture University, Parbhani (Maharashtra). M. Sc. (Ag.) 2010 and Ph. D. (2014) in the discipline of Plant Pathology from Navsari Agricultural University, Navsari (Gujarat). He started his career as Assistant professor in 2014. His field of specialization is Plant Pathology (mycology and virology). He has published 01 book and 11 research paper in national and international journals of reputed. He has participated many National, State Seminar and Symposiums. He has written 02 practical manuals for under graduate course for the benefit of students besides several Radio talk, Lectures in farmer training programme. Dr. Dnyaneshwar has also written 3 popular articles in reputed Magazines. He has excellence teacher award on 2019 from academy for Environment and Life Science.



Molecular Genetics in Fisheries

Bruno Augusto Amato Borges

Atomic genetic strategy in fisheries is to use acquired, distinct and stable markers to distinguish genotypes among fish populations or species. This strategies can provide data on the level of genetic variability and circulation based on mating design, life history, stock size, movement and climate. This volume mentions several atomic devices and strategies that have been used on fisheries to solve different problems for research, and improve the fish production. It is very important to research about the

molecular genetics in fisheries, to the production continues to growth. Also, several strategies that have been used in aquaculture production chain are already showing the importance of genetic knowledge to improve the yield in a sustainable manner. This volume summarizes the progress and some applications of molecular technology in a wide range of options in fisheries.

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About the Author

Bruno Augusto is Aquaculture Engineer and Master on Aquaculture and Fishery Resources from Federal University of Santa Catarina (UFSC). His focus is on writing projects and development of new technologies in aquaculture. He is currently project service provider, consultant and develops research on Biofloc Technology (BFT) cultivation for fish and shrimp.



Intensive Aquaculture

Bruno Augusto Amato Borges

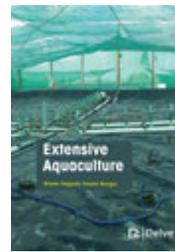
The total aquaculture production has expanded tremendously and contributes to the world's supply of fish for human consumption in an expanding significant way. In Intensive aquaculture, the fish are quite dependent on the feed artificially provided, and the water need to be replaced or replenished at very high rates so that it can maintain the amounts of oxygen to be enough and to also remove the waste. A variety of important institutional and technological requirements depend on the ability to operate a

sustainable and economic viable aquaculture. The United Nations estimates that roughly 32% of worldwide fish numbers are overexploited, depleted or recuperating and must be urgently restored. Fish farming is welcomed as a strategy to prevent overfishing. This book presents some advantages and disadvantages of intensive aquaculture, in addition to provide data and the currently situation of this type of cultivation.

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About the Author

Bruno Augusto is Aquaculture Engineer and Master on Aquaculture and Fishery Resources from Federal University of Santa Catarina (UFSC). His focus is on writing projects and development of new technologies in aquaculture. He is currently project service provider, consultant and develops research on Biofloc Technology (BFT) cultivation for fish and shrimp.



Extensive Aquaculture

Bruno Augusto Amato Borges

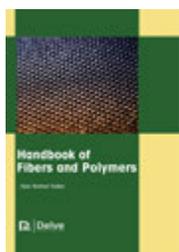
The aquaculture sector has a lot to add towards achieving the SDGs, especially SDG 14 –which involves conserving and economically utilizing the seas, oceans and marine resources for sustainability. Aquaculture keeps on showing the huge success in providing food, sustenance and work. This book shows the significant challenges ahead in spite of the advancement made on various fronts. For instance, there is developing proof that

when fisheries are appropriately overseen, stocks are reliably above target levels, offering validity to the fishery stakeholders and governments all throughout the planet. Notwithstanding, the book likewise shows that the victories accomplished in certain nations have not been adequate to invert the global pattern of overfished stocks, demonstrating that in places where fishery boards aren't set up, or are insufficient, the fish stocks become poor and weakened. This calls for new components to help in the viable execution of strategy and the guidelines for sustainable fisheries and environments, as there is no lone answer for guaranteeing fisheries stock throughout the planet.

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About the Author

Bruno Augusto is Aquaculture Engineer and Master on Aquaculture and Fishery Resources from Federal University of Santa Catarina (UFSC). His focus is on writing projects and development of new technologies in aquaculture. He is currently project service provider, consultant and develops research on Biofloc Technology (BFT) cultivation for fish and shrimp.



Handbook of Fibers and Polymers

Ajay Kumar Yadav

In recent years, high-stiffness, high-strength, and lightweight composite materials have gained recognition as a significant cutting edge technology with a potential to generate efficient power, reinvent the high-efficiency transportation sector, offer new carriages for storage and transportation of reduced carbon fuels, and enhance renewable energy production. Presently, the structural components manufactured from polymeric materials in conjunction with various fibrous materials provide a cost-efficient solution for almost every industrial sector. A polymeric composite material is a multi-phase structure in which reinforcing fibers are integrated with a polymeric matrix material, resulting in a synergy of mechanical characteristics that cannot be realized from either of the components alone. This book familiarizes the readers with fibers and polymeric matrix materials, which are the constituents of a typical polymer composite. It is believed that this book can serve as a greatly valuable reference for a varied range of readers, including scientists, engineers, policymakers, and professors. This book is also useful for teachers and students from different backgrounds including textile engineering, materials science, fiber science and technology, mechanical engineering, nanotechnology, chemical engineering, medical sciences, and environmental science.

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Ajay Kumar Yadav is presently working as a lecturer at C.S.J.M University Kanpur, India. He has over 10 years of teaching and research experience. He has completed his Ph.D in Pharmaceutical Sciences from SHUATS. He has published several research papers in international and national journals and has also presented many posters.

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Environmental Biotechnology

Dr. Birendra Prasad and Dr. Anjali Priyadarshini

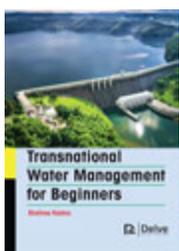
Pollution is a global issue unequivocally causing multiple impacts. Globally, industrialization and modernization at an unrestrained pace are disturbing natural systems and equilibriums to impact us too economically, physically, mentally and socially! This book emerges as pertinent to present a succinct account of few solutions to start with along with case studies from research to enable a reader to gain an insight into how we are handling this issue. This becomes even more significant in the current COVID-19 pandemic given that several studies have unveiled how air pollution weakens the immune system to facilitate COVID-19 virus entry, augmented virulence, lethality and persistence

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About the Editors

Dr. Birendra Prasad is a Professor of Botany & Coordinator of Biotechnology at Patna University, Patna, India. He has contributed to the world with publications appearing in many National and International Journals. His areas of research are anti-ageing plant metabolites and bioethanol production from agro-wastes. He has also isolated many novel strains of microorganisms and also filed three patents in the area of modern biology. He has handled a few major research projects of Department of Biotechnology (DBT), Govt. of India and Department of Atomic Energy (DAE), Govt. of India.

Dr. Anjali is an associate professor, Department of Biotechnology, SRM University, Delhi-NCR, India. She is a PhD from PGIMER Chandigarh and has 10 years of research and teaching experience. She is currently handling projects from ICMR.



Transnational Water Management for Beginners

Shalinee Naidoo

Poor water quality has resulted in major problems in many developing countries, affecting the overall socioeconomic status of communities as well as the ecological situation of various surrounding environments. This, together with changing climatic conditions, increases in industrial activities, and changes in land use, has led to an exacerbation of water-related problems. Nowadays, water-related issues have infiltrated into many different areas such as the environment, energy, industry, transport, food security, society, health, and even climate sectors. Often these tend to impact at both the national and international scale. The increased demand for water has often placed an enhanced risk of conflict where governance is concerned and a host of challenging issues are raised, which often intensifies at a transboundary or transnational level. This volume, in particular, focuses on the basic concepts a beginner needs to know when learning about Integrated Water Resource Management. A simplified understanding of the environment, resources, and related interactions are provided before touching on ecosystems, ecosystem management, and ecological principles. The basics of water management and how to implement water resource management are also covered.

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About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and the design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal (www.lifeofshal.com) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary (www.scientistsanctuary.com) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.



Introduction to Mineralogy

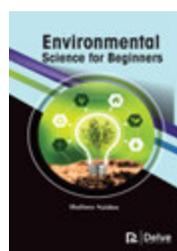
Kailash Ramesh Rao Malode

Minerals are the building blocks of Earth, and for all intents and purposes Earth Sciences involve minerals in one way or another. Minerals constitute a decent amount of objects found in nature and used by the general public, including the soils that allow for agriculture and the springs that constitute underground water supplies. Minerals play a vital role in the sustenance of humans. One of mankind's key discoveries was the recognition of different rocks and minerals, and their use as indicated by their properties. With the advancement of mining, it became significant for individuals to recognize different minerals, and evidence on mineral use and properties can be traced back to ancient civilizations such as: Greece, Rome, Persia, and Arabia. Extensive profiling of minerals began in the late eighteenth century, with the commencement of the Berzelius classification of the "anionic" minerals. The popularity of precious minerals like gold further had a major impact on Mineralogy. This volume discusses the works of W.L. Bragg, an atom scientist, which form the basis for our current understanding of mineral science and properties, and the contribution of V.M. Goldschmidt that provided a theoretical context for the behavior of elements in geochemical processes.

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About the Editor

Dr. Kailash Malode (1980) is presently serving as Assistant Professor, Department of Soil Science and Agriculture Chemistry, college of Agriculture, Parul University, Vadodara, Gujarat. He obtained his B. Sc. (Ag.) in 2006 from Marathwada Agriculture University, Parbhani. M. Sc. (Ag.) 2009 in Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph. D. Soil Science And Agriculture Chemistry in 2014 from Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani. He started his career as Assistant professor in 2014. His field of specialization is soil fertility, Remote Sensing and Organic Farming. He has published 02 books and 15 research paper in National and international journals of reputed. He has participated many National, State Seminar and symposiums. He has written 02 practical manuals for under graduate course for the benefit of students besides several Radio talk, Lectures in farmer training programme. Dr. Kailash has also written 21 popular articles in Shati Bharti, Shati pragati and other reputed Magazines. He has Best writer award on 2015 for Krishi dooth popular Magazines of Maharashtra and One Young scientist award in 2020.



Environmental Science for Beginners

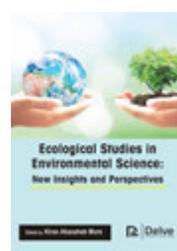
Shalinee Naidoo

The study of environmental science serves as a valuable resource for learning more about changes around the world and how they affect us. As population numbers continue to increase so has the pressure on existing natural resources. While renewable resources can be replenished, they are being used far too rapidly and cannot be replenished at a rate fast enough to meet usage. On the other hand, non-renewable resources cannot be replenished at all. By studying the changes happening to the environment and how it is affected, we may be able to possibly develop solutions that prevent the complete depletion of these resources while aiding in the development of sustainable solutions. This volume serves as an introduction to the field of Environmental Science. An overview on historical aspects and influential environmentalists are provided. This is followed by exploring the components of the environment, causes of environmental disasters and geomorphological processes. Basic concepts of ecosystems, ecology, ecological succession, ecosystem services and biodiversity are also covered.

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About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and the design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal (www.lifeofshal.com) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary (www.scientistsanctuary.com) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.



Ecological Studies in Environmental Science: New Insights and Perspectives

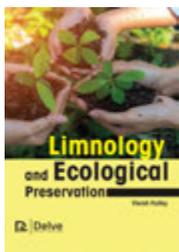
Kiran Abasaheb More

Ecology is a well-established bio centric interdisciplinary field that investigates the complex connections between different kinds of organisms, ranging from bacteria to humans, as well as how these relationships evolve over time and in a variety of spatial and temporal dimensions. This field focuses on the study of ecology, evolution, and biodiversity. The majority of research on ecology focuses on the intricate interactions that occur between different species, as well as how these relationships evolve over the course of time. It is only in recent times that ecology has been considered to comprise the "heart and spine" of environmental research. Environmental management is required because natural resources are being depleted, biodiversity is being lost, and the environment (land, air, and water) are being polluted. It is essential to take corrective action in order to repair or rehabilitate the natural environment in the future. This should be seen as a preventative strategy. Regardless of the amount of work that has been put into maintaining the ecosystem's current state, the destruction of the environment continues unabated. This book provides a comprehensive look at a number of the most significant issues affecting the environment, as well as an investigation of the reasons why ecology has been unable to address these issues. In the present book, it is underlined how important it is for human goals to be accomplished in a manner that is both sustainable and to take into account the social, economic, and political aspects of environmental concerns. This book will provide a comprehensive outlook on ecological perspective on environmental sciences and will be useful for University and college graduates and postgraduate students.

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About the Editor

Dr. Kiran Abasaheb More, born in Bhogaon (Devi) Tahsil Jintur of Parbhani district of Maharashtra, India, in 1978, completed M.Sc in Botany, at Shree Shivaji College Parbhani, Maharashtra, Affiliated with Swami Ramanand Teerth Marathwada University Nanded, Maharashtra. The author also completed his Ph.D in 2010 in field of Taxonomy of Angiosperms and he joined the department of Botany, Yashwantrao Chavan Arts and Science Mahavidyalaya, Mangrulpir as an Assistant Professor. He is the Chief Editor of Research Journal Multilogic in science (Journal for Applied science), He edited more than 35 issues of research journals and authored 25 research papers. Dr. More is awarded by Young scientist award of Science and tech society for Integrated ruler improvement Telangana, and also awarded by Excellence in Teaching GENESIS ARBAN & RULER DEVELOPMENT SOCIETY at the occasion of ICAAASTSD International conference 2018. He is the editor of proceeding of International conference on Advances in Agriculture and Allied science technologies for sustainable. Development Society Special issue Jan 2018 and he is a Life Member of "GUARD Society". He also chaired a number of National and International Conferences, he is also a Member of Botany teacher association of Sant Gadge baba Amravati University Amravati, Maharashtra, India.



Limnology and Ecological Preservation

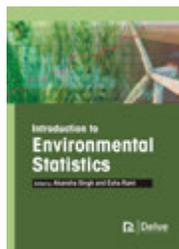
Vierah Hulley

Limnology is an integrated, multidisciplinary scientific study of inland waters – reservoirs, fresh water and saline lakes, ponds, waterways, wetlands, rivers, and groundwater. This book provides a comprehensive these on the current state of the science and an understanding of the bio-geophysical components of inland aquatic ecosystems. The existence of human beings is closely linked to our proximity to freshwater. Despite being of high significance, anthropogenic activities continue to place stressors on inland aquatic ecosystems. An understanding of the natural system allows for predictive analysis and the development of proactive measure to avoid or manage the disturbances to these systems.

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About the Author

Vierah Hulley (PhD) is an international expert in Environmental and Earth Sciences, with an extensive vocational background in the areas of environmental policy development, environmental and social risk management, natural resources management, sustainability, and climate risks management. She is the Founder of HL Nexus: Sustainable Management Solutions; a company dedicated to harnessing the power of data science in managing sustainability and climate risks. Vierah holds a master's degree in Geology and a PhD in Hydrogeology, with a focus on environmental and spatial science.



Introduction to Environmental Statistics

Akansha Singh and Esha Rami

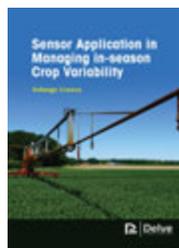
Environmental statistics involves the use of statistical approaches to environmental science. It covers methods for managing questions regarding the natural ecosystem in its undisturbed condition. This reader-friendly book emphasizes the fields of probability hypothesis and dimensions that are significant in environmental data analysis, monitoring, research, ecological field studies, and ecological decision making. It discusses fundamental statistical theory with minimal documentation, however without precluding significant details and presumptions. The book likewise presents a hypothesis of how and why environmental physical cycles in the environment create right-slanted, log-normal dispersions. The volume likewise presents the Rollback Statistical Theory, which permits data analysts and administrators to appraise the impact of various emission control methodologies on environmental quality frequency diffusions. Assuming just a simple understanding of polynomial math and analytics, Environmental Data Analysis and Statistics provides a superior reference and assortment of measurable strategies for investigating environmental data and developing precise environmental predictions.

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About the Editors

Dr. Akansha Singh is presently working as Project Scientist in Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, India. She has also worked as Post-doctoral fellow, Mumbai University and as Associate Professor, Department of Genetics and Plant Breeding, College of Agriculture, Parul University, India. She has obtained her Ph.D. (Ag) in Genetics and Plant breeding from Banaras Hindu University in the year 2012. She has been Awarded with ICAR, senior research fellowship in 2010 to pursue PhD. She has authored numerous national and international publications in journals of repute.

Dr. Esha Rami is presently working as an Assistant Professor, in the Department of Life science, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated from Ganpat University, Ph.D. in biotechnology from Hemchandracharya North Gujarat University, in the year 2015. She has authored a number of national and international publications in reputed journals.



Sensor Application in Managing in-season Crop Variability

Solange Uwera

It is essential to produce climate system models that can bring about an accurate representation of the climate forecast. The concept of global warming has become a local phrase for every region and its effects are obvious on the farming communities. The models generated can be used to project the current situations and can help us predict or forecast the potential perils in the future. In this book, the sensor applications are explained with respect to the agricultural sectors. Remote sensing and GIS are considered as important tools in mapping agricultural fields and their associated factors. The mapping of crops with several space-borne platforms and airborne platforms is explained. This book can be used as a handbook for engineers, scientists and research scholars along with undergraduates and postgraduates in science and technology.

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About the Editor

Solange Uwera is a GIS and Remote Sensing Expert. She received her Master's degrees in Geographical Information Science from the University of Manchester and in Human Settlement and Urbanism from the University of Leuven and a bachelor's degree in Biodiversity Conservation from the National University of Rwanda. Solange works on various development and humanitarian projects at United Nations Satellite Centre. She worked in Geneva, Brussels, Rwanda and Madagascar where she applied geospatial technology for humanitarian, development and environmental applications.



Key Aspects of Environmental Planning: Public Policy and Practice

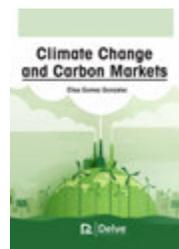
Vierah Hulley

Environmental planning is the integrated analysis and assessment of the surroundings environmental information into the planning process for development and is concerned with the protection and enhancement of environmental systems while meeting demands for growth and development. The process involves a systematic evaluation of socio-economic, political, and administrative factors affecting the natural ecosystem to promote environmentally sound development and management of natural resources. This process may be applicable at the local, state, federal and international levels. This book, divided into 10 chapters, provides the reader with a detailed account of the multi-faceted and interdisciplinary aspects of environmental planning.

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About the Author

Vierah Hulley (PhD) is an international expert in Environmental and Earth Sciences, with an extensive vocational background in the areas of environmental policy development, environmental and social risk management, natural resources management, sustainability, and climate risks management. She is the Founder of HL Nexus: Sustainable Management Solutions; a company dedicated to harnessing the power of data science in managing sustainability and climate risks. Vierah holds a master's degree in Geology and a PhD in Hydrogeology, with a focus on environmental and spatial science.



Climate Change and Carbon Markets

Elisa Gomez Gonzalez

Carbon markets help mobilize resources and reduce costs to give countries and companies the space to smooth the low-carbon transition. Carbon markets are also a key tool for states to get businesses to help mitigate climate change, as businesses that run climate mitigation projects, such as building wind farms or replanting forests, will be able to sell the emissions reductions to countries. The main aim of this book is to provide simple, effective, understandable, and applicable mechanisms for all readers. To enable and empower them to implement management systems that are adapted to the reality and expectations of their business. In this book, you will find all of those mechanisms and resources needed to ensure that sustainability is well embedded into a company through Human Resources Practices, Marketing, Communication, Procurement, and CEO Leadership.

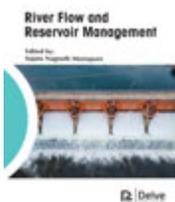
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About the Author

Born in the Canary Islands, Elisa Gomez has always been aware of the immense potential and limitations that resources provide to communities. Following her passion towards the environment and sustainable development mechanism, she completed the Madrid Environmental Sciences degree and later completed a Master's degree in International Sustainable Development and Corporate Sustainability. She has worked for a wide range of industries and sectors as a sustainability consultant and analyst implementing international standards, achieving certifications, and ensuring the management processes were effective. The sectors englobe oil and gas, construction, telecommunications, and software design.

Moved by a great passion towards her work, she decided to quit the corporate environment and set up her own company, Better Together (www.bettertogether-sustainability.com) an online sustainability company that specializes in simple, effective, and understandable sustainability practices for all types of companies. They focus especially on Startups and SMEs, as these are growing; ensuring that they are sustainable right from the start without the burden of complicated, time-consuming, and expensive measures.

River Flow and Reservoir Management



Sujata Nagnath Mustapure

The rivers are considered as playing a very important role in hydrological cycle. The river is resulting from joining number of streams created by overland as well as hill land flow. The reservoirs are constructed across the rivers as a storage projects or run of river projects. The reservoir engineering has presented specific desire to withstand the powers brought about by the river streams during heavy precipitation. The staggering flood circumstances are being deflected because of dams and related supplies thereof. The role of information technology in early warning systems has specific importance in early river flood warning, monitoring, mitigation and management. The flood alleviation and checking strategies alongside the job of the local area based NGOs and public specialists was stressed. For sustainable development of any region, efficient and proper utilization of available water resources has crucial importance. Reservoir storage capacity greatly affected by the amount of sediment deposition in the reservoir over time. The storage capacity of the any irrigation project and in turn its operational efficiency is enhanced by efficient sediment management. Sustainable ecosystem management is essential to overcome several obstacles in the judicious management of natural resources to satisfy the demand from different sectors. Reservoir engineering and water resource engineering have given us an amazing information base to realize the constructions worked across the different river basins. Recent advanced technologies such as remote sensing and Geographic Information System (GIS). Artificial Intelligence can be utilized in mapping, planning and management of water resources. With the efficient management of the natural resources, it is also important to control the pollution of natural resources. The rivers or other natural resources are mainly polluted by the presence of different variety of algae, excess amount of nitrogen, phosphorus molecules in the water bodies. There are various food chains, which are present in the aquatic environment, that are destroyed by the polluted water bodies. This is enough to disturb the ecological balance. We can utilize a few planning methods in researching the real states of the nearby water bodies. It is significant to realize the toxin load at all the sections of the stream. Therefore, it is necessary investigate and control the water pollution in the natural water bodies like, rivers, reservoirs, ponds for better ecological balance.

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About the Editor

Dr. Sujata Nagnath Mustapure is a teaching associate, Department of Electrical & Other Energy sources, College of agricultural engineering & Technology, Vasantao Naik Marathwada Krishi Vidhyapeeth, Parbhani. She obtained her B.Tech (Agril. Engg.) in 2010 from Vasantao Naik Marathwada Krishi Vidhyapeeth, Parbhani. Gold medal in M.Tech (Agril. Engg.), 2014 from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph.D in Renewable energy engineering in 2019 from Maharana Pratap University of Agriculture and Technology, Udaipur. She has also worked as assistant professor in College of Agricultural, Naigoan, Vasantao Naik Marathwada Krishi Vidhyapeeth, Parbhani. She has authored several national and international publications.

Remote Sensing for Natural Ecosystems, Agriculture, and Hydrology



Solange Uwera

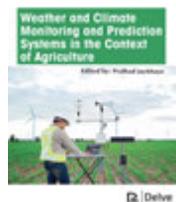
Remote sensing has always played a vital role in the better understanding of the ecosystem. It has developed into an exploratory tool vital to natural science. This volume introduces topics such as climate, hydrology and the Earth's biosphere, which constitute a solid part of remote sensing and inspection. In addition, remote sensing encourages us to understand the ecosystem and its numerous cycles in vast spatial and transitory ranges. This is an important part of land surface survey, particularly in the managing of land and aquatic resources and the identification of ecological changes. The volume mentions that remote sensing technology has greatly improved our capacity to monitor and supervise natural resources, particularly in the fields of agriculture, water resources, and ecosystems. However, despite the considerable progress made in recent times, there are still various fields that have not yet fully realized the benefits of remote sensing, which is an area of ongoing research. Some of the topics captured in this volume include; chapter 1: remote sensing, chapter 2: the use of GIS to map and assess ecosystem services, chapter 3: satellite-based remote sensing for measuring the earth's natural capital and ecosystem services, chapter 4: remote sensing in forest ecology and management, chapter 5: agricultural sensors and their advantages, and chapter 6: use of remote sensing in irrigation monitoring and management among others.

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About the Editor

Solange Uwera is a GIS and Remote Sensing Expert. She received her Master's degrees in Geographical Information Science from the University of Manchester and in Human Settlement and Urbanism from the University of Leuven and a bachelor's degree in Biodiversity Conservation from the National University of Rwanda. Solange works on various development and humanitarian projects at United Nations Satellite Centre. She worked in Geneva, Brussels, Rwanda and Madagascar where she applied geospatial technology for humanitarian, development and environmental applications.

Weather and Climate Monitoring and Prediction Systems in the Context of Agriculture



Pralhad Jaybhaye

Climate forecasts show the potential to improve agriculture's ability to withstand climate shocks, but it is still uncertain how farmers will use this data in crop management decisions plus whether doing so will profit them. This volume introduces the most commonly used forecasting strategies in agriculture, like probability forecasting, real-time forecasting and ultra-short distance forecasting. These determine the pattern of planting dates and crop varieties, the latter being more common where more extensive weather forecasting methods exist. Hybrid strategies usually use more input elements (such as crop varieties) to define the strategy (such as sowing period). Production estimates indicate that, in most cases, using forecasted values can increase production with relatively minimal loss. The impact depends on the nature of actual rainy season, the forecast accuracy and the kind of response. In wet years, with the consolidation of the policy and accurate forecast, the positive response will be higher. This proves that climate prediction can help farmers acclimatize to climate variability, particularly to help them take advantage of the expected favorable conditions. The realization of possible advantages is related to the context of greater variety selection and enhanced selection. Even so, modern advances in weather modeling have improved the ability to accurately forecast rainfall through dynamic forecasting and statistical techniques.

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About the Editor

Dr. Pralhad Jaybhaye (1972) is presently serving as Assistant Professor, Department of Agricultural Meteorology, Vasantao Naik Marathwada Krishi Vidyapeeth, Parhani, Maharashtra. He did his B. Sc. (Ag.) in 1995 and M. Sc. (Agril. Meteorology) 1998 from Mahatma Phule Krishi Vidyapeeth, Parbhani and Ph. D. (Agril. Meteorology & Physics) in 2020 from BCKV, Mohanpur, West Bengal. He started his career as a technical officer (Agrometeorology) in 2000 and as an Assistant professor in 2008. His field of specialization is Micrometeorology and Extension Agrometeorology. In addition to this, he has performed additional duties as a Nodal officer, Commercial Fruit Nursery (2005-2008) and Principal Nodal officer, GKMS & FASAL project (2008-20016). He was conducted National workshop, farmer training programmes, workshops and farmer's rallies. During his total 20 years' tenure of services, he has published one text book (Handbook of Agrometeorology) and other 6 books related to Agrometeorology; 25 research papers & 05 short communications in international and national reputed journals. He has participated and presented research papers more than 25 International, National, State Seminar, workshops and symposiums. He has written 01 practical manuals for under graduate course to the benefit of students; besides these activities TV (15) & Radio talks (200), guest Lectures in scientist training & farmer training programmes. Dr. Pralhad Jaybhaye has also written more than 400 popular articles in reputed regional language periodicals and daily news papers.



Pollutants and Water Management: Resources, Strategies, and Scarcity

Bhupendra Pushkar K.

Water differentiates planet earth from all the other planets in the solar system. At the same time, as the global supply of freshwater is beyond enough to meet all contemporary and foreseeable water needs, its spatial and temporal allocations are not. There are numerous areas in which freshwater resources remain inadequate to fulfill domestic, socioeconomic growth and environmental needs. In such areas, the lack of clean water to satisfy human consumption and sanitation needs is indeed a limitation on human health and productivity, and for this reason on economic growth as well as on the upkeep of a clean environment and holistic ecosystems. This book mentions that researchers must discover ways to take away these constraints. There are a couple of demanding situations in doing that, in particular given an unstable and unsure future climate, plus a rapidly developing population that is driving expanded socioeconomic improvement, globalization, and urbanization. How best to fulfill these needs requires research in various areas of water management. This book identifies the problems facing water managers today, and the research required to better inform individuals who attempt to develop a more sustainable and suitable future.

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About the Editor

Dr. Bhupendra Pushkar was born in Mumbai, India. He persuaded his B.Sc. in Microbiology in 2000. He has obtained his M.Sc. degree in Biotechnology in 2002 from University of Mumbai. He pursued his further studies and completed his Doctorate degree in 2010. His area of research broadly includes environmental pollution remediation using biological science. He is currently working on heavy metal bioremediation, PAH bioremediation, plastic degradation, plant tissue culture etc. He is actively involved in the bioremediation research work and trying to develop system for river water cleaning. Since 2008 he is working as assistant professor at University of Mumbai, India. He has published various papers in national as well as international journals and currently guiding three research students. He is Co-Editor in Chief of a journal and reviewer in many journals.



Hydrometeorology

Pralhad Jaybhaye

The appearance of climate change in the form of extreme weather conditions is not a new challenge to the world. Water has been always an important need in any sector of human activity. In recent years the importance has increased especially in arid and / or semi-arid regions where water resources have become increasingly scarce. Though the importance is very much pertinent in drylands, the opinion of most of the researchers is that the irrigated regions of the country behold the relevance as world food production from irrigated agriculture represents more than 40 % of the total. This book illustrates natural water cycle (i.e. hydrological cycle), recent advances in hydrometeorological predictions, with an emphasis on modern forecasting techniques and meteorological observations. The topic of hydrometeorology includes a broad range of areas, such as weather radar, satellite and other monitoring techniques, flow routing, hydraulic models, rainfall-runoff, and Mathematical Weather Predictions. Primary applications of hydrometeorology include drought forecasting, flood forecasting, reservoir management, climate change assessment, water quality and water resources studies. Therefore, this book is intended for development students, researchers, policymakers, progressive farmers, and media peoples interested in water management and hydrometeorology under change in climate.

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About the Editor

Dr. Pralhad Jaybhaye (1972) is presently serving as Assistant Professor, Department of Agricultural Meteorology, Vasantnaik Marathwada Krushi Vidyapeeth, Parbhani, Maharashtra. He did his B. Sc. (Ag.) in 1995 and M. Sc. (Agril. Meteorology) 1998 from Mahatma Phule Krushi Vidyapeeth, Parbhani and Ph. D. (Agril. Meteorology & Physics) in 2020 from BCKV, Mohanpur, West Bengal. He started his career as a technical officer (Agrometeorology) in 2000 and as an Assistant professor in 2008. His field of specialization is Micrometeorology and Extension Agrometeorology. In addition to this, he has performed additional duties as a Nodal officer, Commercial Fruit Nursery (2005-2008) and Principal Nodal officer, GKMS & FASAL project (2008-20016). He was conducted National workshop, farmer training programmes, workshops and farmer's rallies. During his total 20 years' tenure of services, he has published one text book (Handbook of Agrometeorology) and other 6 books related to Agrometeorology; 25 research papers & 05 short communications in international and national reputed journals. He has participated and presented research papers more than 25 International, National, State Seminar, workshops and symposiums. He has written 01 practical manuals for under graduate course to the benefit of students; besides these activities TV (15) & Radio talks (200), guest lectures in scientist training & farmer training programmes. Dr. Pralhad Jaybhaye has also written more than 400 popular articles in reputed regional language periodicals and daily news papers.



Air Pollution, Climate and Health

Stephanya Lynn JonasLabee

This book gives an overview of the sources and types of air pollution and discusses its effects on the climate and the health of people and the environment. Chapter one begins by discussing the different types of air pollution and how they are categorized. The difference between primary and secondary air pollutants is explained, as well as how each of these types impact the environment. It concludes by going over some of the methods that are being used or considered to reduce the emissions and impact on these different types of air pollution. Chapter two follows with an examination of how air pollution interacts with the climate. It discusses the different types of climates found around the world and how they are classified using different systems. The impact of climate change is explored, including an analysis of which vulnerable populations are expected to be at higher risk from its effects. Chapter three explores what it is to be considered healthy and what factors contribute to this. Different health issues are discussed, separated by which are most common among different age groups. The discussion then turns back to air pollution in chapters four and five, going into more detail about the main types of pollutants. Where the air pollutants come from, what areas of the world experience them at greater volumes, and how they affect human health is explored. Chapter six explores existing policies aimed at reducing air pollution, identifies which organizations are involved in these efforts, and ponders new ways of moving towards a cleaner air system. Different air pollution monitoring systems are also discussed, which are essential when deciding how to effectively reduce the worst contributors to air pollution. Chapter seven returns to the discussion of the effects of climate change on health, exploring the negative effects a hotter climate will have on health, air quality, mental health, food security, disease prevalence, and the ocean. Chapter eight discusses some ways to combat climate change, from personal actions, to changing land management, exploring alternative energy sources, and even considering geoengineering. Chapter nine recognizes that we are already experiencing the impacts of climate change, and so looks at some of the ways to mitigate and adapt to the negative effects. Finally, chapter ten asks how the Environmental Protection Agency is helping to combat air pollution and climate change. Their research projects, relationships with individual states, and how they interact with community members are covered and related back to fighting climate change as a community.

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About the Editor

Stephanya Jonas-Labee has been passionate about the environment her whole life. After completing her bachelor's at UCSC, she moved to Amsterdam to earn her Master's of Earth Science with a focus on environmental management and sustainability from the University of Amsterdam. When not reading about new sustainable technologies, she enjoys traveling the world, trying out new vegan recipes, and working on her garden.



Paleoclimatology

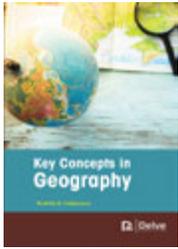
Vasant Deshmukh

Paleoclimatology is the study of climate prior to the period of instrumental measurements. This book provides an enlightened approach towards the conceptualization of interacting components of the Earth system and their various features affecting the climate. This book elaborates paleoceanic techniques developed to gather data on stable isotopes, radiogenic isotopes, biogenic compounds and, elements. Additionally, paleoceanic processes such as paleotides, radiation, change in the oceanic base and, ice have been discussed in detail. Moreover, Paleocene-Eocene Thermal Maximum (PETM) modeling and methods of climate change have also been discussed. Through this book, we emphasized on worldwide climate change and its impact on human evolution. This book can deliver a great deal of vital information to scientists, environmentalists, policy makers, professors and students. Students and teachers from the background of environmental science, geology, petrology, botany, and zoology can take away valuable information from this book.

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About the Editor

Dr. Vasant A Deshmukh did his under graduation with first class in Agriculture 2003, Masters in Agronomy with First class in 2005 and Doctoral studies with distinction in Agronomy in 2013 at V.N.M.K.V. Parbhani (MS). He served as Assistant professor at various colleges for 11 years for teaching Agronomy and Agricultural meteorology to under graduate students. Currently working as Programme Coordinator at KVK MGM Gandheli Aurangabad. He has 14 research paper with many technical papers to his credit. Actively engaged in trainings of farmers, rural youth and farm women and also act as a resource person in farm extension activities organized by different agencies. Published extension booklets, technical folders, articles, and posters for transfer of technology. Delivered TV talks and radio talks on technology transfer for farming community.



Key Concepts in Geography

Rodolfo B. Valdenarro

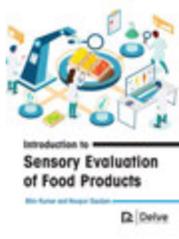
The book provides brief explanation to the key terms that are related and have been used in Geography. Geography is the study of places and the relationships between people and their environments. Geographers explore both the physical properties of Earth's surface and the human societies spread across it.

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About the Editor

Rodolfo B. Valdenarro Jr., is a Professor and licensed education practitioner at Centro Escolar University, Manila. He served as Director of Student Affairs and Services at Laguna State Polytechnic University from 2016-2019. He finished Master of Arts in Teaching Social Science at University of Rizal System and presently taking Doctor of Philosophy in Southeast Asian Studies at Centro Escolar University. He teaches Professional Education subjects, Social Sciences (History, Sociology, Humanities, Anthropology, Economics, Geography, Political Science) and Methods of Research. He served as Contributor on the 2011-2016 Philippine Youth Development Plan (PYDP) and President of State Universities and Colleges- Association of Student Affairs Administrators in Region IV (CALABARZON and MIMAROPA), Philippines from 2018-2019. Mr. Valdenarro has presented researches on Social, Behavioral, Educational and Gender Studies in national and international conferences.

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Introduction to Sensory Evaluation of food Products

Shiv Kumar and Noopur Gautam

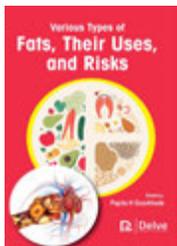
Food sensory testing includes the application of human senses in the scientific assessment of food products. Qualities like texture, odor, scent, and taste are examined by trained testers to evaluate product quality or obtain opportunities for development. The test people of a board should satisfy certain prerequisites as food testers: availability, neutral conduct towards the tested product, scientific language competence, no sensitivities or intolerances to test foods, and healthy senses. This volume presents off-flavor as an unwanted taste, smell, or mouthfeel. This can emerge during storage or handling and frequently causes a decline in the sensory nature of food or drink. Off-flavor happens when dangerous compounds pollute a food because of chemical alterations or adulteration during storage or production or through the development of microbes in a product. For effective sensory testing, sample choosing, preparation, balance, coding, and presentation are crucial to offering an objective assessment. The differences between samples should be negligible; for example, all testers must obtain similar samples for appraisal.

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About the Authors

Prof. Shiv Kumar is Mtech. and PhD in Food Technology from GB Pant University and Bundelkhand University. He is presently working as Head of Department on the position of Professor for the past 10 years. He has 26 years of experience in teaching and research. He has held many Administrative and Academic positions in Bundelkhand University as Registrar, Finance officer, Dean Science, Dean Engineering and Pro-Vice Chancellor of the University. He has authored 4 books and 15 research papers in various National and International Journals, many research articles and reviewed research papers for reputed International Journals. He was also awarded best teacher by Governor of UP, India in 2001. Recently, he is coordinating and handling many research projects in Food Technology.

Dr. Noopur Gautam has done B.Sc in ZBC from Kurushetra University, M.Sc Food Technology from Guru Jambheshwar University, Hisar and PhD in Food Technology from Bundelkhand University. She is presently working as Assistant Professor in Institute of Food Technology, Bundelkhand University, Jhansi (UP). She has wide experience in the field of Food Industry having worked with Food quality Lab and multinational company for more than five years. She is a trained auditor in Quality Management Systems especially HACCP and ISO. Dr. Noopur Gautam is guiding M.Sc and PhD students and has many research publications to her credit. She is also on Elsevier's panel as an expert referee with outstanding contributions in reviewing research papers in Food Technology area. There is an amalgam of research and its application commercially in her approach which reflects in her work.



Various Types of Fats, their Uses, and Risks

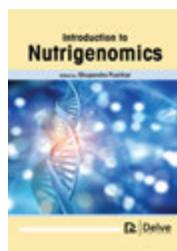
Papita H Gourkhede

Fat is essential for several body functions. Fat is an important part of the diet of humans and many other animals. It is an energy and protects the skeleton and nerves. Fats also make it possible for other nutrients to do their jobs. The body stores fat for protection, warmth, and energy. Not all fats are equally beneficial. Dietary fats are a significant part of our everyday diet, providing around 20-35% of our day-to-day energy needs. Apart from energy, they are fundamental for various biological functions such as growth and development. A small amount of fat is an essential part of a healthy, balanced diet. Fat is a source of essential fatty acids, which the body cannot make itself. This volume examines what dietary fats consist of, their location, sub-atomic structure, molecular, properties, and how to develop taste, texture, and food appearance. The volume likewise discusses the elements of fats in the body and examines the use of dry fats impact on human health. Fats help the body absorb vitamin A, vitamin D and Vitamin E. These vitamins are fat soluble which means they can only be absorbed with the help of fats. Any fat that's not used by your body cells of turned into energy is converted into body fat, likewise unused carbohydrates and proteins are also converted into body fat. Lipids are a wide range of existing particles that consist of fats, sterols, waxes, and, fat-solvent vitamins A, D, E, and K, phospholipids, diglycerides, and monoglycerides, among others. Lipids consist of structural units with high hydrophobicity. This relevancy characteristic, instead of a typical structural component, monoglycerides this group of compounds. They mix with solvents but repel water. Fats and oils can be derived from animal sources (tallow, milk fat, lard), vegetables (vegetable oils, cocoa butter), and marine (cod liver oil, whale oil). They play a significant part in nutrition and physiological roles as they are a decent energy source (9 kcal/g) and contain essential soluble fats and fat-soluble vitamins in nature (comprising of hydrophobic and hydrophilic classes) with surface-active elements. In general, fats improve the nutritional capacity and add feel and texture. All types are high in energy. A gram of fat whether it is saturated or unsaturated provides 9 kcal (37 KJ) of energy compared with 4 kcal (17KJ) for carbohydrates and proteins. This book discusses food-technology processes and issues related to food reformulation. This book will be helpful for the students, researchers, clinicians, nutritionists and dietitians and professionals working on dietary supplements and food technology.

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About the Editor

Dr.(Mrs). Papita H Gourkhede (1977) is presently serving as Assistant Professor, Department of Soil Science and Agriculture Chemistry, college of Agriculture, Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani. She obtained her B. Sc.(Ag.) in 2001 from College of Agriculture, Nagpur from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. Pursued M.Sc. (Ag.) in 2007 and Ph. D. in Soil Science And Agriculture Chemistry in 2012 from Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani. She started her career as Assistant professor in 2012. Her field of specialization is soil fertility, nutrient management, micronutrients, heavy metal remediation, Remote Sensing and Organic Farming. She has published 05 books and 35 research paper in National and international journals of reputed. She has participated in many National, State Seminar and symposiums. She has written 06 practical manuals for under graduate course for the benefit of students besides this delivered several Radio talk, Lectures in farmer training programme. Dr. Papita has also written 112 popular articles in Agroone, Shetibhati, RCFsheti patrika and other reputed Magazines. She has received young Scientists award in 2016, ICAR national Award for research innovation in Dryland Agriculture in 2018, women Scientists Award in 2019, Agrocare Award in 2017, State level Best program officer award in 2020.



Introduction to Nutrigenomics

Bhupendra Pushkar

Until recent times, the nutritional study was solely about the deficiencies of nutrients and impairment of health. However, with the advent of genomics, nutrigenomics has gained unprecedented attention where the high throughput genomics techniques are combined with nutritional studies. With increasing health concerns, especially lifestyle related diseases, it is very important to focus on the individual nutritional requirement. Where, nutrigenomics bridges health, diet and genomics and can also be seen as a combination of nutrients at genetic and molecular level. The bioactive compounds present in

the diet influence the expression of the gene in tissue and organ in a specific manner. Nutrigenomics can provide information on nutritional influence on metabolism and homeostasis which upon disruption can cause diet related diseases. Further, the possibility of individual sensitive genotypes towards the disease can also be predicted. Nutrigenomics can offer effective dietary-intervention strategies to maintain homeostasis and control diseases. With the advancement of science, especially the Human Genome Project (HGP), the interaction of different genes and nutrients can be studied in depth. Government interventions and regulations can further help to enhance the benefit of the nutrigenomics analysis. This book focuses on nutrigenomics with respect to disease control and current opportunities and challenges.

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About the Editor

Dr. Bhupendra Pushkar was born in Mumbai, India. He persuaded his B.Sc. in Microbiology in 2000. He has obtained his M.Sc. degree in Biotechnology in 2002 from University of Mumbai. He pursued his further studies and completed his Doctorate degree in 2010. His area of research broadly includes environmental pollution remediation using biological science. He is currently working on heavy metal bioremediation, PAH bioremediation, plastic degradation, plant tissue culture etc. He is actively involved in the bioremediation research work and trying to develop system for river water cleaning. Since 2008 he is working as assistant professor at University of Mumbai, India. He has published various papers in national as well as international journals and currently guiding three research students. He is Co-Editor in Chief of a journal and reviewer in many journals.



Incorporating Natural Products into the Human Diet

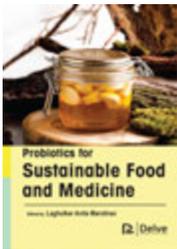
Laghulkar Anita Marotirao

This book sums up existing evidence on the effect of natural food on human health. Proper nutrition is essential for human life, health and development. It examines organic versus traditional food production in regards to human health and examines the possible effect of natural management activities universally. Essential nutrients like Carbohydrates, fats and oils, protein, vitamins, minerals, and water are all part of the diet. Carbohydrates and proteins provide energy of 4 kcal per gram and fats provide energy of 9 kcal per gram. Minerals are required for many body activities, including muscular contraction, nerve transmission, blood coagulation, and blood pressure and growth regulation. Except for sulfur, sodium, potassium, magnesium, and calcium exist as positive ions or cations, and chloride and phosphates as negative ions or anions, throughout the body. Mineral salts aid in the regulation of fluid, osmotic pressure, and acid-base balance in physiological fluids. Nutrients and some non-nutrient found in meals are required for development and physiological functioning, according to advances in nutritional and food sciences. Many foods that derive from an animal source, such as eggs, milk, meat, fish, honey, yogurt, and cheese, are considered animal source foods. Organic dairy items, and some meats, additionally have a higher ratio of omega-3 fatty acids contrasted with traditional food products. This book will be useful for dietitians, nutritionists, and clinicians. This book will be more helpful for general readers and makes them aware of choices of natural foods, their nutrition quotient and improving their health.

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Probiotics for Sustainable Food and Medicine

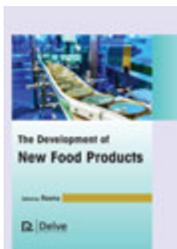
Laghulkar Anita Marotirao

Probiotics are a combination of live beneficial micro-organism i.e. bacteria and yeast that are intended to have health benefits when consumed or applied to the body. Probiotics have become more popular in the past two decades, the most common fermented foods that naturally contain probiotics, or have probiotic added to them, include Yogurt, Kefir, Kombucha, Sauerkraut, Pickles, Miso, Temph, Kimchi, Sourdough bread, and some cheeses. Probiotic bacteria are Lactobacillus, Bifidobacterium, Streptococcus Thermophilus, Bulgarius, Propionibacterium etc., after dissecting and examining the various significant strains that may be incorporated in probiotic supplements, it becomes obvious why they are valuable for maintaining your overall health. They give a lot of added health advantages. Prebiotics are beneficial components of probiotic supplements that support and promote health in almost all body systems. With the application of various products, more scientific evidence shows that probiotics are beneficial to human health, and the food industry is very active in researching and promoting them. Given this continuing trend, although there is strong scientific evidence linking these microbes to different health benefits, more research is required to identify them and evaluate their safety and nutritional aspects. The goal of this book is to assess the current literature on the concept and potential beneficial elements of probiotics in the literature, with a focus on probiotics in food and medicine.

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The Development of New Food Products

Reema

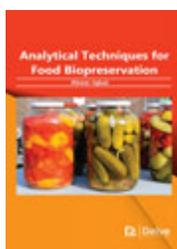
This book seeks to evaluate the opinions of new product development (NPD) researchers and their partners. These incorporate the people who have advanced their theories with specific reference to the food sector and the creation of new food items. This book distinguishes various theories and methods for dealing with new product development. The book offers the structure to understanding and valuing the complexity of food development projects. Additionally, fashions tools for progress in working separately or in groups to make or develop

food items and product offerings are discussed in this book. This book likewise offers challenges and prospects for educators, in capstone as well as in different courses. Since product development is by itself an expansive and interdisciplinary undertaking, the author calls upon readers by introducing data and details on the New Product Development process. Readers, students, and researchers will acquire knowledge on the fundamentals of food chemistry, sensory analysis, statistics and food processing through this book. This book will be ideal for food researchers, food engineers, and regulatory professionals working on the development of new food products.

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About the Editor

Dr. (Mrs.) Reema is presently working as Guest Faculty, Department of Home Science, Government Degree College, Katra Chuggupur, Sultanpur, Uttar Pradesh. She graduate from the Deen Dayal Upadhyay Gorakhpur University and completed doctorate from Nehru Gram Bharti Deemed to be University, Prayagraj in the year 2020 with UGC NET, JRF &SRF. She has published four research paper in elite national publications and participated many national & International conferences.



Analytical Techniques for Food Biopreservation

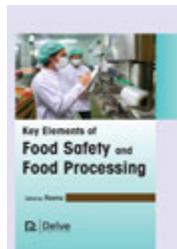
Abeer Iqbal

The book "Analytical Techniques for Food Biopreservation" is a detailed handbook about the various food-preservation techniques that are based on the use of antimicrobial compounds and natural metabolites for the preservation of various food products. It reflects on various innovations in the use of biopreservation techniques in the food industry that have proven to be environmentally friendly as compared to the conventional techniques and produce food that has an extend shelf life, as well as better sensory and nutritional content.

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About the Author

Abeer Iqbal majors in Microbiology and Molecular Genetics from University of The Punjab, Pakistan. She is a professional health-care writer and has experience of working with various life-sciences blogs. She has an international publication of her research related to microbiology. She is passionate about writing and research related to Biological Sciences. She feels that Genetics and Biochemistry are the real essence of life and learning and unraveling new researches in these areas is really amazing!



Key Elements of Food Safety and Food Processing

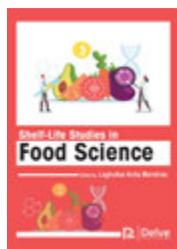
Reema

Food safety is critical in order to safeguard customers from common allergies and foodborne diseases. Food poisoning is among the most widely recognized reasons for sickness around the world. This volume seeks to educate readers on food safety and gives balanced arguments on pesticides, and genome modification among other elements influencing food safety. Billions of individuals on the planet are in danger of unsafe food. A large number become sick while others die from eating unsafe food. Thusly, safe food saves lives. Safe food enriches the individual and population health. Safe food further creates economic development of the location where sanitation is improved. Safe food supply relies upon both science and effective food policing. With technological improvements, new guidelines should be ratified to create a regular supply of food items that are protected and fit for consumption. As living standards improve, worries over food safety and possible impurities will continue being a significant medical concern. Consumers request quality and safe products they eat since food provides the necessary energy and nutrients for supporting life. Largely, consumers depend on the government to protect food items and guarantee sold foods meet minimum consumer safety standards. For instance, a container of olive oil named as 100 percent virgin olive oil should contain the very thing the name says aside from the naturally occurring minor components that are essential for the olive oil to last, and which can't be removed or disposed of totally without affecting the olive oil. The volume examines challenges and strategies in food safety and handling across different countries worldwide.

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Shelf-life Studies in Food Science

Laghulkar Anita Marotirao

Shelf-life of food is the period during which the food retains an acceptable quality from a safety and organoleptic point of view, and depends on four main factor, namely formulation, processing, packaging and storage condition of food. It is indicated by labeling with a date mark like Expiry date, best-before and best-before date. The factors influenced the shelf-life of product is intrinsic and extrinsic factor which are moisture content, pH, redox potential, water activity, temperature, and atmospheric gases. To enhance the shelf-life of the food different

preservation and processing methods used like irradiation, blanching, freezing, and some applications of heat as well as used vacuum packaging, active and intelligence packaging. Shelf-life is affected by microbial, physical, and chemical spoilage like enzymatic reactions, oxidation of fat, bacterial spoilage to reduce these type of spoilage FSMS-Food Safety Management Safety, HACCP, TQM are applied. Shelf life of food determines by sensory analysis, chemical, and microbiological tests should be carried out. According to regulation of Food Safety Standard Authority of India (FSSAI) shelf life indicated on labeling of product in the form of expiry date for perishable food like milk product, best -before the food contains less water content.

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Advanced Fermentation and Cell Technology

Urvashi Swami and Kunwar Digvijay Singh Thakur

The present book is a collection of comprehensive information on technological advancements that have been developed by bridging the fermentation technology and cytology. It exhibits details concerning the various laboratory and industrial applications of plant, mammalian & microbial cell systems to process and formulate advanced bio-products such as enzymes, beverages, single cell proteins, pharmaceuticals, cosmetics, etc.

Advanced fermentation and cell technology offers practical insights and references for microbiologists, bio-engineers and researchers to

delve deeper into industry-oriented techniques and applications involving biological systems to upgrade contemporary practices of formulating bio-based industrial products.

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About the Authors

Dr. Urvashi is a microbiologist. She completed her Masters from Chaudhary Charan Singh Haryana Agricultural University, Hisar, after which she joined Panjab University, Chandigarh for completing doctorate. Her main area of research was fermentation and phytotherapy. After completion of PhD, she moved to Kuwait where she is running her own business of medical writing and editing.

Kunwar Digvijay Singh Thakur is an enthusiastic learner, researcher and academic writer with formal degrees in biotechnology and laws. He has drafted and editorialized many scientific projects at college and university level. An amateur trekker, avid reader and chef at heart, he has a nerve for learning new pursuits and improvising with his academic skills.

Modern Initiatives for Sustainable Food Production



Modern Initiatives for Sustainable Food Production

Friedrich Huth and Sara D. Garduno-Diaz

The outcomes of modern initiatives of sustainable food production can be positive for food productivity, reduced pollution and overall improving the global living environment. Consequential environmental problems associated with the production and consumption of food include climate change, water pollution, water scarcity, soil degradation, eutrophication of water bodies, and loss of habitats and biodiversity. This book deals with all

aspect of food systems as they intersect with the science and practice of sustainability, including its environmental, economic and social justice dimensions.

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About the Authors

Friedrich Huth has a background in Business Economics with a Master's Degree in Business Administration from the University of Brandenburg, Germany. He further specialized in Corporate Finance at the Institute of International Studies at the Ramkhamhaeng University in Bangkok. When a type 4 arthrosis diagnosis ended his career as a professional Athlete and Captain of the German U16/U18 Basketball National Team at an early age, he dedicated his life to helping a variety of small and medium sized companies grow their business as Operations, Marketing and Finance Manager while personally exploring measures to cure his joint-condition and regain his physical abilities. Thus, he started working on functional nutrition in 2017 when he became a first line member of Her1, an Ecommerce startup for Nutritional Supplements. Currently he is responsible for a unit of consultants with focus on all German Companies in the Agriculture, Life Science, Pharmaceutical & Chemical Industries. Due to his professional environment he is exposed to first line insights on the practices and strategies of the main players in related fields to modern food production. His approach to Food Production and Nutrition is based on his personal nutrition-induced full recovery from a condition with a prognosis to be irreversible, mixed with his professional interest in micro- & macroeconomic trends and correlations.

Sara D. Garduno-Diaz has a background in nutrition with a PhD in Nutrition and Food Science from the University of Leeds, United Kingdom; she has further specialized in Sports Nutrition with the International Olympics Committee, Switzerland. Dr Diaz has worked as Research Fellow for several EU-funded research projects and was awarded research grants from CONACYT (Mexico) and the BBSRC (UK). She currently works as Nutrition Consultant for companies in Germany, Kuwait, England and the United States. Dr Diaz has been working on functional nutrition and wellness since 2014 when she co-founded her first company. Since then she has joined various start-ups as part of the R&D department. Dr Diaz sits on the editorial board of various international journals. She is the author of several peer-reviewed publications and books. Her research interests include the dietary patterns of migrant populations and their impact on health, as well as investigating the environmental factors that influence food selection. Dr. Garduno-Diaz is a member of the Academy of Nutrition and Dietetics, the American Overseas Dietetics Association, Professionals in Nutrition for Exercise & Sport, and the World Public Health Nutrition Association, for whom she is a member of the executive committee. With over 10 years of experience in the field of nutrition, and having lived and worked in various continents, Dr Diaz's approach to food is one of integrating strategies to design individual programs based on her client's wellness needs. Dr Sara advocates for real food and the art of sustainable eating.

Food Flavors: Generation, Analysis and Process Influence



Food Flavors: Generation, Analysis and Process Influence

Vijay D. Kele and Amrita Tigga

This book focuses on the effect of processing and components of the food and its flavor. The topic discussed include: Introduction to food flavors; Natural Food Flavors; Analysis of Food Flavors; Aroma of fruits and vegetables; Aroma of Meat Products; Autoxidation and flavors; Flavors in Nutraceutical foods; Process influence; Nanotechnology for Food Flavors; Advances in Food Flavor Technology and Problems with Food Flavors. The first part of the book reviews the flavors of

food, it explains the flavors that are the sensory impressions we experience when consuming foods and beverages formed by the chemical sensations of taste and smell. The first two chapters discuss food flavor and natural flavors of the food, Chapter three reviews the different methods and techniques to analyze the flavors of food, it reviews the way flavor is detected and measure. Chapter four provides detailed information about the aroma of both fruits and vegetables. The next Chapter is about meat it explains the aroma of meat products. Chapter six discusses autoxidation i.e. spontaneous oxidation of a compound in air and the flavours of food. Seventh Chapter is explains nutraceutical foods and provides information regarding the flavors in them. Chapter eight discusses the influence of process on the food flavour. The next Chapter explains the Nanotechnology for Food Flavors. Second last Chapter is all about the advances in Food Flavor Technology and the Final Chapter discusses the different Problems with Food Flavours. Information provided in this book will be useful to technologists, scientists, and chemists working in flavour chemistry. It is a valuable reference for R&D staff, those responsible for sensory evaluation of foods and product development, as well as academics and students involved in flavour science.

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About the Editors

Dr. Vijay Kele is presently serving as Associate Professor, Department of Dairy Technology and Food Technology, PIT, Parul University, Vadodara, Gujarat. He obtained his B. Tech (Dairy Technology) from MAFSU, Nagpur, M. Sc. (Dairy Science), MBA (Food & Agribusiness Management) & secured 04 gold medals from University of Mysore, Mysore and Doctorate in Dairy Extension Management from Nagpur. He having 11 years of Teaching and 03 years of industrial experience. He has published 04 books and 18 research paper in National and international journals of reputed, popular article 87, extension article 72 however 14 radio talk and 02 television live talk on Doordarshan. He has participated many National, State Seminar and symposiums. He has written 22 practical manuals for under graduate course for the benefit of students besides Lectures in farmer training programme, organized 133 farmers scientist meets, organized 14 exhibitions. He has organized 73 webinars, 07 STTPs (one week), 12 Workshop and 01 FDP. As per research concern received grants for 04 projects from ICAR, Gujcost, SSIP (Govt. of Gujarat) However 02 Patents in his credits.

Amrita Tigga (1995) is presently serving as Assistant Professor, Department of Dairy Technology, Parul University, Vadodara Gujrat. She obtained her B.Tech (Dairy Technology) in 2017 from College of Dairy Science and Food Technology Raipur, Chhattisgarh from Chhattisgarh Kamdhenu University, Durg and completed her M.Tech now in 2020 from National Dairy Research Institute, Karnal Haryana. She started her career as Assistant Professor in 2020. Her field of specialization is Dairy Microbiology.



Physical Properties of Foods

Vijay D. Kele & Parth Hirpara

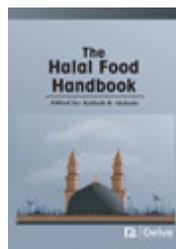
The physical properties of food include several factors such as mass transfer, heat transfer, and unit operations that are part and parcel of the engineering principles influencing the state of food. This book deals with some aspects of the physical properties of food. The book aims to impart a basic understanding among the students who wish to know the physical properties of foods and other factors underlying it. This book can help both undergraduates and other students who would like to take up courses in food processing technology.

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Dr. Vijay Kele is presently serving as Associate Professor, Department of Dairy Technology and Food Technology, PIT, Parul University, Vadodara, Gujarat. He obtained his B. Tech (Dairy Technology) from MAFSU, Nagpur, M. Sc. (Dairy Science), MBA (Food & Agribusiness Management) & secured 04 gold medals from University of Mysore, Mysore and Doctorate in Dairy Extension Management from Nagpur. He having 11 years of Teaching and 03 years of industrial experience. He has published 04 books and 18 research paper in National and international journals of reputed, popular article 87, extension article 72 however 14 radio talk and 02 television live talk on Doordarshan. He has participated many National, State Seminar and symposiums. He has written 22 practical manuals for under graduate course for the benefit of students besides Lectures in farmer training programme, organized 133 farmers scientist meets, organized 14 exhibitions. He has organized 73 webinars, 07 STTPs (one week), 12 Workshop and 01 FDP. As per research concern received grants for 04 projects from ICAR, Gujcost, SSIP (Govt. of Gujarat) However 02 Patents in his credits.

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The Halal Food Handbook

Kailash R. Malode

The halal business has encountered significant progress, particularly in the food sector. This volume seeks to investigate the challenges and prospects of the halal food sector in different countries across the globe. The volume suggests that the growth of the halal industry was set off by the expanding interest for halal accreditation and quality approval, just as the advancement of the food business. This is an extraordinary chance for entrepreneurs to fulfill the increasing need for halal food. The test is on the way to improve quality and meet halal guidelines to satisfy a worldwide demand. Some of the topics covered include; introduction to halal food, the history of halal food, the difference between halal and haram foods, and how do you assure a restaurant is serving halal food. This accessible, It explains why there are so many different interpretations of Halal and why this needs to be resolved if international trade is to be developed. The final chapter covers other aspects of Halal, including cosmetics, tourism, lifestyle, and banking, and finishes with a look at what the future holds for Halal. This book is especially useful for the readers from food industry, researchers and faculties working on Halal food sciences.

Copyright 2022 | HB 9781774691168 | Price: \$160

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Dr. Kailash Malode (1980) is presently serving as Assistant Professor, Department of Soil Science and Agriculture Chemistry, college of Agriculture, Parul University, Vadodara, Gujarat. He obtained his B. Sc. (Ag.) in 2006 from Marathwada Agriculture University, Parbhani. M. Sc. (Ag.) 2009 in Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph. D. Soil Science And Agriculture Chemistry in 2014 from Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani. He started his career as Assistant professor in 2014. His field of specialization is soil fertility. He has published 09 research paper in National and international journals of reputed. He has participated many National, State Seminar and symposiums. He has written 02 practical manuals for under graduate course for the benefit of students besides several Radio talk, Lectures in farmer training programme. Dr. Kailash has also written 16 popular articles in Shati Bharti, Shati pragati and other reputed Magazines. He has Best writer award on 2015 for Krishi dooth popular Magazines of Maharashtra



Food Additive Toxicology

Neeraj and Devendra Kumar

“Food Additive Toxicology” is a text book written in simple language for graduates, postgraduate students and teachers in the discipline of food science and technology. The book covers most aspects relevant in the study of food additives and toxicology and as well as current scientific information on the issues which will be of interest to the food industry. It covers the silent aspects of science, such as the principles of food toxicology and their assessment, the various toxins found in food, food additives and their regulations, the risks and benefits of food additives, and clinical evaluation of food additives. There is also information on food acidulants, flavorants, colorants, emulsifiers, stabilizers, antioxidants, preservatives, anticaking agents, and fat replacers, as well as their roles, regulations, and toxicological aspects. A noteworthy feature is a chapter on information Resources in toxicology. The text has been supplemented with figures, table and illustrative problems and their solution. To keep readers up to date on recent developments in food additives and toxicology, the most recent research findings and new regulations have been incorporated.

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About the Editors

Dr. (Mrs.) Neeraj, is presently working as Assistant Professor, Department of Agriculture, Jharkhand Rai University, Ranchi, India. She graduated from the Maharshi Dayanand University Rohtak Haryana, and completed Doctorate in Food Science and Technology from the CCS Haryana Agricultural University, Hisar, Haryana in the year 2017. She has also worked as Food Analyst in AVON FOOD LAB (PVT.) LTD., New Delhi, India. She was working as Assistant Professor in Mewar University, Chittorgarh, Rajasthan before joining her current position. She has authored a number of national and international publications.

Dr. Devendra Kumar, is presently working as Associate Professor under the Faculty of Agricultural Sciences and Technology, United University, Prayagraj, India. He graduate from University of Allahabad followed by doctorate in Agroforestry from SHIATS, Prayagraj in the year 2013 with JRF and SRF. He has 12 years teaching and research experience and supervised 3 Ph.D. thesis and 2 PG diploma in the field of Agroforestry/Forestry and Environmental Sciences. He is a member of Indian Society of Agroforestry, Jhansi, U.P. He has also published 20 research paper in Indian and foreign Journals of repute and popular articles. He has received Best Research Paper award, Young Scientist Award from Sam Higginbottom Institute of Agriculture, Technology & Sciences (SHUATS), Prayagraj & other eminent Institutes/ Society.



Handbook of Vegan Studies

Kailash R. Malode

This book takes the readers through several different aspects of vegan food, vegan diets, comparison between veganism and vegetarianism. This book sheds light on the several concepts of vegan food and diet, its benefits, food justice, public health nutrition and the vegan studies in the discipline of religion, the anthropology and archaeology of food and the future of veganism. A healthy, plant-based diet requires planning, reading labels, and discipline. Vegetarian diets do not contain meat, poultry or fish; vegan diets further exclude dairy products and eggs. In general, vegetarian diets provide relatively large amounts of cereals, pulses, nuts, fruits and vegetables. In terms of nutrients, vegetarian diets are usually rich in carbohydrates, n-6 fatty acids, dietary fibre, carotenoids, folic acid, vitamin C, vitamin E and Mg, and relatively low in protein, saturated fat, long-chain n-3 fatty acids, retinol, vitamin B12 and Zn; vegans may have particularly low intakes of vitamin B12 and low intakes of Ca and vitamin D. This book has been designed to suit the knowledge and pursuit of the nutritionist, dietitian, students, researcher and scholars and to empower them with various aspects of the vegan food so, that they are updated with the information.

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About the Editor

Dr. Kailash Malode (1980) is presently serving as Assistant Professor, Department of Soil Science and Agriculture Chemistry, college of Agriculture, Parul University, Vadodara, Gujarat. He obtained his B. Sc.(Ag.) in 2006 from Marathwada Agriculture University, Parbhani. M. Sc. (Ag.)2009 in Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph. D. Soil Science And Agriculture Chemistry in 2014 from Vasantao Naik Marathwada Krishi Vidhyapeeth, Parbhani. He started his career as Assistant professor in 2014. His field of specialization is soil fertility. He has published 09 research paper in National and international journals of reputed. He has participated many National, State Seminar and symposiums. He has written 02 practical manuals for under graduate course for the benefit of students besides several Radio talk, Lectures in farmer training programme. Dr. Kailash has also written 16 popular articles in Shati Bharti, Shati pragati and other reputed Magazines. He has Best writer award on 2015 for Krishi dooth popular Magazines of Maharashtra



Medicines from the Seas

Shivsanjeevi Sripathi and Prerna Pandey

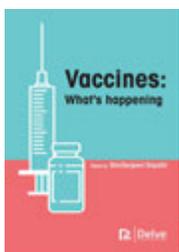
Man has always been on a quest for answers and the search for molecules suitable to target ailments or their causes such as pathogens has intensified with the COVID-19 epidemic. The marine environment is home to 32 of the 33 animal phyla that are recognized with 15 types exclusively only marine! This diversity in genetics opens up the avenue for chemical diversity setting the stage for novel drugs. This book is the first to describe the promise of marine organisms as a treasure chest of molecules to target a slew of diseases. This is inclusive of what has been presented by research in terms of quelling symptoms of diabetes, CVD and rheumatoid arthritis-that are all chronic conditions still on the quest for a "perfect cure".

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About the Authors

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, worked at International Center for Genetic Engineering and Biotechnology, New Delhi. Her field of research in PhD included isolation and molecular characterization of geminiviruses, genome sequencing, gene annotation, and gene silencing using the RNA interference technology. She has also worked at Transasia Biomedicals and Advance Enzyme Technologies as a scientist. Prerna has published papers in peer-reviewed journals, and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. She has also completed her editing and proofreading courses from Society for the promotion of Editors and Proofreaders, UK and now works as a freelance scientific editor and writer. When Prerna is not busy with her assignments, she loves to explore historical places.



Vaccines: What's Happening

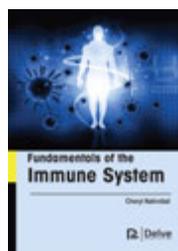
ShivSanjeevi Sripathi

Pandemics have not been recent. Apart from the Spanish flu and the recent COVID-19 pandemic, the ability of pathogens to target humanity is a repeated pattern over time. For instance, what was first reported in late 2019 and brought the globe to a standstill in 2020, COVID-19 is firmly etched in the minds of the survivors. Research has always pointed out vaccines as being the cornerstone approach to quelling epidemics and pandemics: along the lines of the adage "better safe than sorry". This book comes at this crucial juncture when our conquest of land and overpopulation is resulting in waves of epidemics. The book starts with groundwork entailing the impact of vaccines, their production and costs and also discusses the ethical aspects of vaccine research and also vaccines for "neglected diseases".

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About the Editor

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



Fundamentals of the Immune System

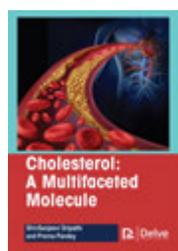
Cheryl Natividad

Certain aspects of the immune system are still under intense investigation and so some information presented in this book are possibilities supported by experimental data and not yet established facts. This book aims to orient the reader about the various parts of the human immune system and how they work together to protect the body from pathogens. This book provides well-researched information that can help readers attain a better comprehension of the body's amazing ability to protect and heal itself.

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About the Author

Cheryl Agdaca- Natividad graduated with a BS Biology degree (magna cum laude) at the Saint Louis University, Baguio City in the Philippines. She took the licensure examination for secondary teachers in 2003 where she ranked no. 10 among the examinees. She earned her masters degree in Genetics at the premier state university, University of the Philippines Los Baños. She taught in the same university from 2006-2017 handling lecture and laboratory classes in general biology, cell biology, genetics, and molecular genetics. She authored books on various fields of genetics such as veterinary genetics, plant genetics, and epigenetics.



Cholesterol-a Multifaceted Molecule

Shivsanjeevi Sripathi and Prerna Pandey

Whether it is a newspaper article or an internet "trend" or countless advertisements on social media-one molecule that most people know is "cholesterol". Given this background, this book is the first of the series on cholesterol. After a brief introduction of the key aspects of its synthesis and processing, research studies have been presented discussing the global cholesterol profiles, the roles of genes, as well as links between COVID-19 and cholesterol.

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About the Authors

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

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Allergies-concerns and Insights

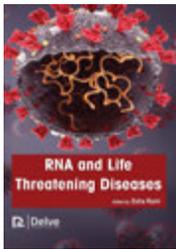
ShivSanjeevi Sripathi

This book presents interesting insights into allergic diseases. Apart from discussing its prevalence around the world, a range of indoor allergens has also been covered as backed by research. This includes carpets as potential sinks of allergens and pet fur along with practical tips for handling them. An interesting research finding on the role of "personality" and food allergy has also been covered. This becomes vital in today's times when "personality development" is at the forefront. The impact of mental health on allergies and vice versa has also been presented.

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About the Author

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



RNA and Life Threatening Diseases

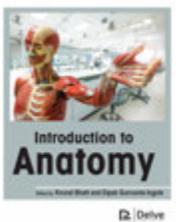
Esha Rami

A huge number of messenger RNAs (mRNAs) and non-coding RNAs must be accurately expressed for cells to function normally. These RNAs take a role in transcription, RNA processing, and translation. An in-depth examination of RNA-mediated genome regulation at several levels has been provided in the book RNA-based Regulation in Human Health and Disease. Starting with the Introduction of RNA, RNA as a therapeutic target, a further section examines the various diseases and significant potential for RNA-based medicines and diagnostics in the future. The book helps researchers, students and clinicians across the world who will find this book very informative as well as practical.

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About the Editor

Dr. Esha Rami is presently working as an Assistant Professor, in the Department of Life science, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated from Ganpat University, Ph.D. in biotechnology from Hemchandracharya North Gujarat University, in the year 2015. She has authored a number of national and international publications in reputed journals.



Introduction to Anatomy

Krunal Bhatt and Dipak Gunvanta Ingole

Anatomy is a branch of biology that is concerned with the identification and description of living organisms' internal structures. It comes from the Greek words ana and tomia, which mean up and cutting, respectively, and denotes cutting up or dissection when combined. The present book describes the historical aspects of anatomy, Anatomy of humans, Veterinary Anatomy and plants. This book also covered technological adoption in anatomy education. Use of virtual lab, three-Dimensional Digital Simulations, cloud technology, and Artificial intelligence in Anatomy education has also been covered.

This book will be helpful for students, researchers and scholars to understand the complexity of anatomical structures of humans, animals and plants.

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About the Editors

Dr. Krunal Bhatt (1982) is presently working at Zydus hospital, Vadodara as a chief clinical intensivist and Anaesthesiologist for one year. He did his MBBS from Baroda Medical College. He has worked as a Medical Officer at various corporate hospitals in Vadodara (2006-2009). He joined Indian armed forces and posted to various locations during his tenure (2009-2018). He has served at Pune, Lucknow, Jodhpur, Jammu and Kashmir. He also has obtained Counter Insurgency ops medal and High Altitude serving medals for his serving tenure at line of control in Kashmir. He did his post-graduation in ANAESTHESIOLOGY from AFMC, Pune, India in 2018. He is life member of INDIAN MEDICAL ASSOCIATION, INDIAN SOCIETY OF ANESTHESIOLOGY, INDIAN SOCIETY OF CRITICAL CARE MEDICINE, and EUROPEAN SOCIETY OF ANAESTHESIA.

Dr. Dipak Ingole (1989) is presently serving as Assistant Professor, Department of Genetics and Plant Breeding, CSMSS, College of Agriculture, Kanchanwadi, Aurangabad (MH). He obtained his B. Sc. (Ag.) in 2011 from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, M. Sc. (Ag.) in 2011 and Ph. D. in Genetics and Plant Breeding in 2017 from Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani. He started his career as Assistant professor in 2017. He has published 02 books and 11 research paper in National and international reputed journals. He has participated in many National, State level Seminars and symposiums. He has delivered several Radio talks, Lectures in farmer training programme. Dr. Dipak has also written 35 popular articles in reputed Magazines. He has also received Young scientist award in 2022.



Aging: Snow White's Secrets

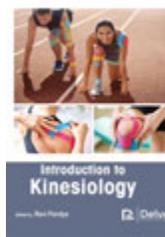
ShivSanjeevi Sripathi

We all are familiar with the idea of wine and cheese tasting better with "age". The quest for being young dates back to the pages of history and stories we have heard for a long time. While aging is a universal truth, further understanding of its inner aspects. Aging is associated with changes warranting special care. This book presents a few interesting research insights into aging and approaches to handling it. Starting off with the background, the impact of miRNAs in aging is also presented followed by the roles of gut bacteria and the diet.

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About the Editor

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in E.coli & M.smegmatis. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



Introduction to Kinesiology

Ravi Pandya

For survival of living species movement is necessary. However, mobility might be hampered for a variety of reasons, including injury or discomfort. Normal movement is the consequence of a complex interplay between the neurological, muscular, and skeletal systems, as well as other systems such as the respiratory, cardiovascular, integumentary, and immunological systems. Kinesiology is the basic science for understanding the movement system. It is the scientific study of movement of the human body or its components. A solid basis in kinesiology is required for the restoration of normal movement, the decrease of movement dysfunction, and the optimization of movement. This book (Introduction to Kinesiology) is divided into eight chapters. First chapter introduces the readers with fundamentals of Kinesiology. Chapter 2 explain the Kinesiology of shoulder complex. Chapter 3 thoroughly discusses the Kinesiology of Elbow units. Chapter 4 introduces the readers with the Kinesiology of Hand. Chapter 5 focusses on Kinesiology of Gait. Chapter 6 illustrates the phenomena of Kinesiology in neck and trunk. Chapter 7 describes the Kinesiology in Hip Joints modern applications of proteomics in various fields. Finally, chapter 8 focuses on the Kinesiology of Ankle Joint and Foot recent. The book gives a good understanding of the many aspects of Kinesiology. The work succeeds in delivering material in a way that familiarizes the unfamiliar reader with essential Kinesiology ideas and methods. Students in medical and other interdisciplinary disciplines will benefit from an introduction to kinesiology. This literature can be used not only by a physician or a health worker but also used by a layman who wants to go for helping hands to others.

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About the Editor

Dr. Ravi Pandya has completed his graduation in 2018 from Gujarat Ayurved University Jamnagar in 2014 & Post Graduation from Parul University in 2018. He has academic experience of 2.9 years and current working in Parul Institute of Ayurved, Parul University, Vadodara, Gujarat, as deputy medical superintendent and assistant professor in Department of Kriyasharir.



Chikungunya Virus-Like Particles as Vaccine Candidates: A Pilot Study

Shweta Saraswat and Khushboo Chaudhary

Chikungunya Virus VLP (Virus-Like Particle) is a unique product that has been developed in response to the need for high purity, properly assembled and glycosylated Chikungunya virus antigens for use in the development of Chikungunya virus diagnostics and in vaccine development and R&D. This book presents main emphasis continues to be the Chikungunya virus for virology interests, although they have been described in specific cases where more is known about the mechanism of Chikungunya virus replication. The chapters have

been organized in such a way that they provide sequential knowledge. Chikungunya virus (CHIKV) has now emerged as one of the most important arbovirus of public health significance. Infection of CHIKV in humans is characterized by rash, high fever and severe arthritis that may persist for years.

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About the Authors

Dr. Shweta Saraswat is currently working as an Assistant Professor at the Amity Institute of Virology and Immunology (AIVI), Amity University, Uttar Pradesh, Noida, India. Dr. Saraswat has 3 years of teaching experience and more than 10 years of research experience. She is a graduate and has a master's in microbiology from Jiwaji University, Gwalior. Dr. Saraswat completed her doctorate in Biological Sciences (Virology) from Bharathiar University, Coimbatore. Her research area was the development of Chikungunya Virus-Like particles using Picha pastoris. She worked in various renowned organizations in India. She worked at the Defence Research and Development Establishment (DRDE), Gwalior as a research fellow. Here, her area of expertise was the development of diagnostics and prophylactics against Chikungunya, Dengue, and Swine flu viruses. She was a postdoctoral fellow at Shiv Nadar University, Gautam Buddha Nagar. Her work was mainly focused on the "Mapping of cleavage site of HEV ORF1 expressed using the Baculovirus expression system". After that, she worked as a scientist at the Translational Health Science and Technology Institute (THSTI), Faridabad, to isolate various DENV isolates using clinical samples. She also identified some small molecule inhibitors against DENV as well as other flaviviruses. At the National Institute of Immunology, her focus was to develop neutralization assays for different JEV isolates. She has been awarded by various reputed agencies. She has received DST-NPDF and DHR-young scientist national awards. She also got an international travel grant from the International Conference on Antiviral Research (ICAR). She also submitted many DENV gene sequences to NCBI Pubmed. Dr. Saraswat has published several research papers in international journals. She is the author and co-author of so many international journals. She is also a review editor for Frontiers in Cellular and Infection Microbiology.

Dr. Khushboo Chaudhary is presently working as a Senior Research Associate at THSTI, Faridabad, Haryana and has nine years of research experience. She graduated from Dr. M.P.S College, Agra in 2010, completed post-graduation from R.B.S College, Agra (Dr. Bhim Rao Ambedkar University) in 2012 and Ph.D. in Biotechnology from Banasthali Vidyapith Tonk Rajasthan in 2019. She has published several research papers in international and national journals. She has published six international textbooks. She has received seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International Conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

Building Digital Health
Competencies in
Developing Countries



Delve

Building Digital Health Competencies in Developing Countries

Sara D. Garduño-Díaz and Friedrich Huth

In the context of this book, digital health competency refers to “the use of information and communications technology in support of health and health-related fields” (WHO, 2019). The concept of digital health may appear overwhelming upon first glance. Numerous health care services as well as providers employ classic paper-based systems for information, and taking up technology is not within the possibilities and expertise of several health systems. Initiating with digital health, nevertheless, is similar to implementing any novel program, often with more questions than answers. To begin, especially for practitioners with limited or no background with technology, comes “What can digital health really do?” The correct answers may not always be technology, yet if it is, an abundance of informed decisions must be taken. Various of these decisions center around trade-offs, and even though no “right” answer really exists, some options have greater context-relevance and are more feasible than others when considering developing countries. Taking up a participatory angle to developing the envisioned digital tool with end users is paramount. Empowering health care professionals to try out a concept or model a situation with the potential digital health tool to potentially outphase their current systems can shine light on key insights. It is then possible to fine tune top ideas into even better answers with the added perspective of those who will be affected.

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About the Author

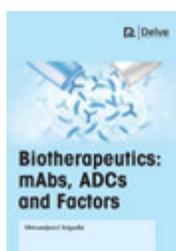
Sara D. Garduño-Díaz has a background in nutrition with a PhD in Nutrition and Food Science from the University of Leeds, United Kingdom; she has further specialized in Sports Nutrition with the International Olympics Committee, Switzerland. Dr Garduño-Díaz has worked as Research Fellow for several EU-funded research projects and was awarded research grants from CONACYT (Mexico) and the BBSRC (UK). She currently consults for various startups in Europe and the US in the areas of Nutrition and Product Development.

Dr Garduño-Díaz sits on the editorial board of various international journals, including the Journal of Obesity and Weight Management, E Cronicon Nutrition, Research in Health Science, and Insights in Nutrition and Dietetics. She is the author of over 50 peer-reviewed publications and 10 books. Her research interests include the dietary patterns of migrant populations and their impact on health, as well as investigating the environmental factors that influence food selection.

Dr. Garduño-Díaz is a member of the Academy of Nutrition and Dietetics, the American Overseas Dietetics Association, Professionals in Nutrition for Exercise & Sport, and the World Public Health Nutrition Association, for whom she is a member of the executive committee.

With over 15 years of experience in the field of nutrition, and having lived and worked in various continents, Dr Garduño-Díaz’s approach to food is one of integrating strategies to design individual programs based on her client’s wellness needs. Dr Garduño-Díaz advocates for real food and the art of eating.

Friedrich Huth has a background in Business Economics with a Master’s Degree in Business Administration from the University of Brandenburg, Germany. He further specialized in Corporate Finance at the Institute of International Studies at the Ramkhamhaeng University in Bangkok. When an arthrosis diagnosis ended his career as a professional Athlete and Captain of the German Youth Basketball National Team at an early age, he dedicated his life to helping a variety of small and medium sized companies grow their business as Operations, Marketing and Finance Manager while personally exploring measures to cure his joint-condition and regain his physical abilities. Thus, he started working on functional nutrition in 2017 when he became a first line member of Her1, an Ecommerce startup for Nutritional Supplements. Currently he is responsible for a unit of consultants with focus on German Companies in the Agriculture, Life Science, Pharmaceutical & Chemical Industries. Due to his professional environment he is exposed to first line insights on the practices and strategies of the main players in related fields to modern food production. His approach to digital health is based on his personal nutrition-induced full recovery from a condition that was prognosed to be irreversible, mixed with over 6 years of professional experience in economic fields.



Biotherapeutics: mAbs, ADCs and Factors

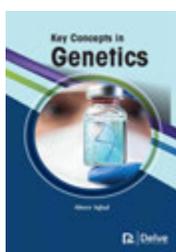
Shivsanjeevi Sripathi

Biotherapeutics refer to therapeutic approaches with the active substance extracted or produced from a biological source. This book is one of the first in compiling select biotherapeutics-based systems viz. mAbs, ADCs, cytokines, growth factors and nucleic acids backed by research studies. This paves the way for part 2 listing the remaining technologies with research-backed data. This research-backed book presents insights and developments for several issues that plague humanity including case studies of COVID-19.

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About the Author

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, "Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



Key Concepts in Genetics

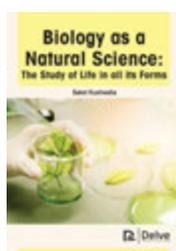
Abeer Iqbal

In this book, various key terms of Genetics have been explained in detail. Genetics is the scientific study of genes and heredity—of how certain qualities or traits are passed from parents to offspring as a result of changes in DNA sequence. A gene is a segment of DNA that contains instructions for building one or more molecules that help the body work.

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About the Author

Abeer Iqbal (M.S Microbiology and Molecular Genetics) is a polished writer with strong scientific knowledge and keen interest in biosciences. She has authored books related to her field and have also been engaged in writing medical blogs/content. She has a passion for learning and writing about scientific advancements and her enthusiasm reflects in her work. She is a nature lover and admires the importance and beauty of little things in life.



Biology as a Natural Science: The Study of Life in all Its Forms

Saket Kushwaha

This book takes the readers through introduction to biology. This book sheds light on the concept of the science of life and its chemical basis. This book further explains the cells, genes, heredity, the diversity of life, and nervous system, sensory system, and immune system.

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About the Author

Prof. Saket Kushwaha, currently the Vice Chancellor of Rajiv Gandhi University is specialized in resource management and sustainable agriculture development. After his higher studies from Banaras Hindu University, he joined Abubakar Tafawa Balewa University (ATBU), Bauchi, Nigeria in 1993 and taught various courses on Agriculture Economics and Management at undergraduate, post graduate and Ph.D. level. Prof. Kushwaha rose to the rank of Professor at ATBU in the year 1999 and in 2006 he joined Banaras Hindu University (BHU), India as professor in agriculture economics and became the Vice Chancellor of Lalit Narayan Mithila University for one term 2014-2017. He has more than 100 publications in national and international journals of repute, supervised 24 Ph.D. students and authored 17 books / book chapters. Prof Kushwaha is life member of 10 Professional Bodies and sits in the panel of editorial boards. Worked extensively in the field of Zero Emission Research Initiatives (ZERI) propagating the mission of sustainable development under the aegis of "Waste is Wealth" concept. He is also the recipient of 17 national and international awards which includes award from Sulabh International Gold Medal in 2016 for sanitation management. 27 years of teaching, research, extension and community service experience with 23 years in administration. Handled over 10 national and International projects majorly funded by World Banks. Coordinated USAID project on Cowpea Research Support Programme (CRSP) in Nigeria for 10 years from 1996 to 2006. Working with NGOs and mega agriculture farms for Green Farm Planning.



Key Concepts in Life Sciences

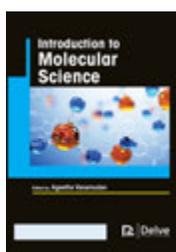
Akansha Singh

Lifesciences is a branch of sciences that encompasses the study of all type of living organisms present on earth. This book contains terminologies commonly used in the field of life science. The terminologies are explained in short and concise way to give an understanding to the readers. Through this book author tries to cover major field of life sciences including medicine, science, agriculture, ecology and environment. The Dictionary of life sciences will be helpful for the students of undergraduate, postgraduate, research scholars, scientists, and industry professionals.

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About the Editor

Dr. Akansha Singh is presently working as Project Scientist in Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, India. She has also worked as Post-doctoral fellow, Mumbai University and as Associate Professor, Department of Genetics and Plant Breeding, College of Agriculture, Parul University, India She has obtained her Ph.D. (Ag) in Genetics and Plant breeding from Banaras Hindu University in the year 2012. She has been Awarded with ICAR, senior research fellowship in 2010 to pursue PhD. She has authored numerous national and international publications in journals of repute.



Introduction to Molecular Science

Ageetha Vanamudan

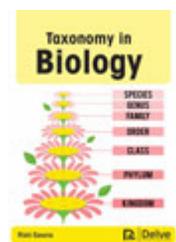
Chemistry is the science that describes everything that is sensed. This book covers all topics of General Chemistry, beginning with the basics of the atom, molecules, and its behaviour, then the chemical properties of matter, the chemical changes and reactions that take place. The energy changes that are involved in chemical reactions. Various aspects and clear applications of electrochemistry, nuclear chemistry and Environmental chemistry related topics are also covered in simple language so that students can understand easily. It gives a clear relationship between

the raw materials and the products made from various materials like metals, ceramics, glass, polymers etc. Also, the book gives an idea to contemporary issues related to the interface between chemistry and other Sciences. This contents clearly explains the study of natural phenomena through experiments and observations wherein Chemistry, physics, and biology are involved together as molecular science. This book will give in depth information to the readers from the basics to more advanced areas in chemistry.

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About the Editor

Dr. Ageetha is presently working as a Deputy Registrar at Team Lease Skills University, Vadodara. She Did her M.Sc & M.Phil in Chemistry from Pondicherry University. She completed her PhD in Analytical Chemistry from M.S.University, Vadodara. Her research interest is on Nanomaterials, catalysis and Environmental chemistry. To add to her credits, she has published 14 articles in various International Journals. She has 12 years of teaching experience. Also she serves as a consultant to various industries.



Taxonomy in Biology

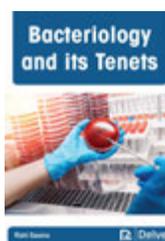
Rishi Saxena

This book gives an introduction to taxonomy - its classification system in biology, and numerical taxonomy - its principles and practice of numerical classification. It illustrates the concepts of rational taxonomy in biology. It addresses the development of a taxonomy of human performance. In addition to this, applications and limitations of Taxonomy has also been discussed.

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About the Author

Dr Rishi Kumar Saxena presently working as an Associate Professor, Department of Microbiology, Bundelkhand University, Jhansi -284 128, India. Dr Saxena obtained his Ph D in Microbiology from Barkatullah University, Bhopal in 2002. Dr Saxena has been awarded various International and National Fellowships such as UNESCO –American Society of Microbiology, USA Fellowship, Blaustein Post doc Fellowship, Ben Gurion University, Israel at Albert Cratz Institute of Desert Research, DST-Young Scientist-Department of science and Technology, Ministry of Science and Technology, Govt of India under fast track project, Senior Research Fellowship – Council of Scientific and Industrial Research (CSIR), Ministry of Human Resource Development, New Delhi. NESA has awarded Dr Saxena Distinguished Scientist -2022. Dr Saxena has completed two major projects funded by the Department of Science and Technology (DST), Govt of India under Bundelkhand Networking project for the development of Bundelkhand Region. Dr Saxena, presently working in the area of environmental and agriculture microbial biotechnology. More than 25 research papers have been published in International and National journals of repute. More than five students have been supervised Ph.D. students in his tenure. Dr Saxena has more than 25 years of research and teaching experiences and eight years of administrative experience. Dr Saxena is a member of the various committees of the university.



Bacteriology and Its Tenets

Rishi Saxena

This book emphasizes bacteriology and its branches with appropriate examples. First, the principles of bacteriology that guide disease studies are explained. Second, the molecular genetics of bacteria and their role in inducing resistance is discussed. Third, the area of applied bacteriology is clearly defined with applications. Fourth, the importance of probiotic bacteria and its role in managing GIT against diseases is explained in detail. Finally, the concepts associated with veterinary and clinical bacteriology are discussed. This book can be used for students who are pursuing graduate and undergraduate courses.

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Dr Rishi Kumar Saxena presently working as an Associate Professor, Department of Microbiology, Bundelkhand University, Jhansi -284 128, India. Dr Saxena obtained his Ph D in Microbiology from Barkatullah University, Bhopal in 2002. Dr Saxena has been awarded various International and National Fellowships such as UNESCO –American Society of Microbiology, USA Fellowship, Blaustein Post doc Fellowship, Ben Gurion University, Israel at Albert Cratz Institute of Desert Research, DST- Young Scientist-Department of science and Technology, Ministry of Science and Technology, Govt of India under fast track project, Senior Research Fellowship – Council of Scientific and Industrial Research (CSIR), Ministry of Human Resource Development, New Delhi. NESA has awarded Dr Saxena Distinguish Scientist -2022. Dr Saxena has completed two major projects funded by the Department of Science and Technology (DST), Govt of India under Bundelkhand Networking project for the development of Bundelkhand Region. Dr Saxena, presently working in the area of environmental and agriculture microbial biotechnology. More than 25 research papers have been published in International and National journals of repute. More than five students have been supervised Ph.D. students in his tenure. Dr Saxena has more than 25 years of research and teaching experiences and eight years of administrative experience. Dr Saxena is a member of the various committees of the university.



Basic Biology

Khushboo Chaudhary and Pankaj Kumar Saraswat

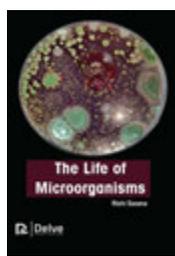
As a field of science, biology helps us understand the living world and the ways it's many species (including humans) function, evolve, and interact. Advances in medicine, agriculture, biotechnology, and many other areas of biology have brought improvements in the quality of life. The goal of this book is to assist students understand the concepts of this vast field. The topics covered are inclusive but not limited to biochemistry, biotechnology, the concept of life and living processes, biomolecules, carbohydrates, lipids, amino acids and proteins, vitamins, enzyme, nucleic acids, bioenergetics, enzymology, cell biology, molecular biology, microbiology, cell metabolic, CAM plants, electron transport chain, techniques apply in biochemistry and molecular technology.

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Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

Dr. Pankaj Kumar Saraswat, graduate of R.B.S. College Bichpuri Agra University 1996, completed Masters and Doctorate degree in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004 respectively. Dr. Saraswat started his career as a lecturer in Soil Science in 2005 at H.N.B. Garhwal University Srinagar Garhwal and thereafter joined KVK Banasthali Vidyapith Tonk Rajasthan as Subject Matter Specialist (Soil Science). He has worked as a young scientist in SERC-DST New Delhi-funded research project and as P.I. in a DST-Rajasthan-funded research project during 2010-2015 and organized the 04 INSPIRE Internship Science camp under SEAT program of DST New Delhi for 10th pass top 1% students of CBSE & Rajasthan Board. In October 2015 Dr. Saraswat joined ICAR-RC for N.E.H. Region Umiam as Senior Scientist cum Head at KVK Tamenglong Manipur and was promoted to Principal Scientist cum Head in October 2020. He has worked as P.I. and Co-P.I. in 04 Institute and 01 NEC-Govt. of India-funded projects at KVK Tamenglong Manipur. He has 25 research papers, 07 project reports, 05 books, 02 training manuals, 30 popular articles to his credit in the field of agriculture and applied science. Presently He has been working as Principal Scientist cum Head at KVK-National Dairy Research Institute Karnal Haryana for technology assessment and demonstration for wider application with capacity development of farmers, farm women, rural youth, line departments and other stakeholders.



The Life of Microorganisms

Rishi Saxena

This book explains the significance of microbes. It also gives a brief overview on microorganisms for sustainable environment and health. This book sheds light on the adaptation of microbial life to environmental extremes, factors affecting life and death of microorganisms, and recent advancements in microbial diversity.

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About the Author

Dr Rishi Kumar Saxena presently working as an Associate Professor, Department of Microbiology, Bundelkhand University, Jhansi -284 128, India. Dr Saxena obtained his Ph D in Microbiology from Barkatullah University, Bhopal in 2002. Dr Saxena has been awarded various International and National Fellowships such as UNESCO –American Society of Microbiology, USA Fellowship, Blaustein Post doc Fellowship, Ben Gurion University, Israel at Albert Cratz Institute of Desert Research, DST- Young Scientist-Department of science and Technology, Ministry of Science and Technology, Govt of India under fast track project, Senior Research Fellowship – Council of Scientific and Industrial Research (CSIR), Ministry of Human Resource Development, New Delhi. NESA has awarded Dr Saxena Distinguish Scientist -2022. Dr Saxena has completed two major projects funded by the Department of Science and Technology (DST), Govt of India under Bundelkhand Networking project for the development of Bundelkhand Region. Dr Saxena, presently working in the area of environmental and agriculture microbial biotechnology. More than 25 research papers have been published in International and National journals of repute. More than five students have been supervised Ph.D. students in his tenure. Dr Saxena has more than 25 years of research and teaching experiences and eight years of administrative experience. Dr Saxena is a member of the various committees of the university.



Cell Technology

Khushboo Chaudhary

By understanding how cells work in healthy and diseased states, cell biologists working in animal, plant and medical science will be able to develop new vaccines, more effective medicines, plants with improved qualities and through increased knowledge a better understanding of how all living things live. The aim of this book termed "Cell Technology" is to assist students understand the concepts of this vast field. The topics covered are inclusive but not limited to Cell Biology, Cell Biochemistry, Cell Enzymology, Cell Immunology, Cell Molecular, Cell Genetics, Cell Microbiology, Cell Metabolic, Biotechnology, Plant Biotechnology, Animal Biotechnology, Bioinstrumentation and Techniques.

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Agricultural and Food Microbiology

Khushboo Chaudhary and Pankaj Kumar Saraswat

Complex interactions among microbes and agricultural systems must be better understood to facilitate the optimal use of beneficial microorganisms and maximal control of pathogens. Opportunities in microbiology research are the gateway to sustaining and improving agriculture and food production, quality, and safety. This book deals with Agricultural Microbiology, metabolism in bacteria, chemoautotrophy, photo-autotrophy, photo-respiration, beneficial microorganisms in agriculture, plant metabolic pathways, carbohydrate metabolism, carbon reduction in C3 plants, sucrose metabolism, starch metabolism, elements of immunology, industrial microbiology and fermentation technology, principle and working of basic equipment and experimentation.

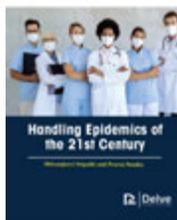
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About the Authors

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

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Handling Epidemics of the 21st century



Shivsanjeevi Sripathi and Prerna Pandey

Close to 77 million people lost their lives due to both world wars. Compare this with 30 million to 100 million loss of lives due to the Spanish flu epidemic. While epidemics are sudden outbreaks over one area, pandemics affect diseases across borders. According to research, epidemics not only target health but also socioeconomic systems. These factors coupled with the ongoing COVID-19 pandemic that has brought the world to a standstill several times make this book most timely. This book presents insights as to the current epidemic threats along with many diseases that are "neglected". A section has also been included on how healthcare providers: doctors and nurses are affected during such epidemics. Further, a chapter on the fear and stigma associated with such epidemic diseases has also been covered. This becomes relevant given and is also one of the unique aspects of the book given that the stigma associated with many diseases is more damaging than the disease!

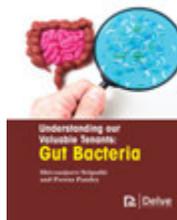
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ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smeigmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, worked at International Center for Genetic Engineering and Biotechnology, New Delhi. Her field of research in PhD included isolation and molecular characterization of geminiviruses, genome sequencing, gene annotation, and gene silencing using the RNA interference technology. She has also worked at Transasia Biomedicals and Advance Enzyme Technologies as a scientist. Prerna has published papers in peer-reviewed journals, and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. She has also completed her editing and proof-reading courses from Society for the promotion of Editors and Proof-readers, UK and now works as a freelance scientific editor and writer. When Prerna is not busy with her assignments, she loves to explore historical places.

Understanding our Valuable Tenants: Gut Bacteria



Shivsanjeevi Sripathi and Prerna Pandey

We have heard the adages often of "the gut feeling" or "feeling sick in the stomach" or "butterflies in the stomach". Often when we are ill, the appetite is often a symptom. This makes our gut a vital indicator of health. Along with the genetic material we inherit the gut microbiota. With this background, research is uncovering alterations in our gut microbiota in several diseases. Apart from well-known inflammatory conditions such as irritable bowel syndrome, this book looks at how our gut tenants are altered and the consequences in other conditions like nervous system diseases, diabetes, cancer, lung diseases, the latest COVID-19 epidemic, and depression.

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About the Authors

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smeigmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

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Addressing the Blues: Handling Depression

Shivsanjeevi Sripathi

According to the WHO Fact Sheet (January 2020), the numbers of people globally depressed are more than 264 million people! The sheet goes on to describe that depression is "a common illness". In the recent COVID-19 epidemic, studies have shown that the prevalence of depressive disorder was around four times than what was reported in the second quarter of 2019 showing how depression has affected our lives due to a pandemic. This book comes at a time when the world is on the path to recovering from the aftermath of a viral epidemic: healing at physical, emotional, financial, social, and mental aspects. We present to you new insights to handling depression: pointers that can be kept in mind while discussing with a healthcare provider during the design of the treatment modules for one's self or relative/friend.

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ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smeigmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



The Biology of Water

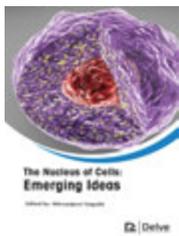
Shivsanjeevi Sripathi

We have been told to "drink lots of water" whether in health or illness. This precious and essential nutrient of life that forms the basis of the majority of metabolic reactions within this body is being shown by research to emerge as a "healer" of diseases. This book is one of the first to show the biological aspects of water in a concise manner backed by scientific research. "How much water should we have?"-reading this book can offer insights as to the "dynamic complexity" of the homeostasis of water in the human body to guide what is the recommended intake for regular and pregnant individuals. Research has also been presented as to how water can influence our cognition and mood positively.

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About the Editor

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smeigmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



The Nucleus of Cells: Emerging ideas

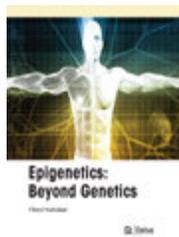
Shivsanjeevi Sripathi

The high school biology textbook describes the nucleus as the “master controller of the cell”. This organelle of the cell is the basis of classifying organisms into prokaryotes and eukaryotes. It contains the genetic material and the nucleolus that is associated with ribosomes. The nucleus is emerging to be a “dynamic” organelle as opposed to the traditional concept of it being “stiff”. This makes this book come at an apt time to present the emerging ideas of the nucleus in one concise volume. While the organelle is large and contains the genetic material, the saying “handle with care”, seems apt for the nucleus. While it is indeed true, research has uncovered that this organelle can undergo deformation in migrating cells and can handle the stress.

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About the Editor

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane” following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



Epigenetics: Beyond Genetics

Cheryl Natividad

DNA is touted as containing the blueprint of life. Therefore, changes in the blueprint will have an impact on the living organism. While this has been proven to be usually true, it has also been established that heritable changes in gene function can occur even if the DNA remains unchanged. Epigenetics-Beyond Genetics introduces the field of epigenetics that aims to understand the mechanisms, outside the DNA sequence, that influence gene function and regulation and the various factors that affect these mechanisms. It provides an in-depth look at how two of the epigenetic mechanisms, namely DNA methylation and histone modification, are at work, especially in the human or mammalian milieu.

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About the Author

Cheryl Agdaca- Natividad graduated with a BS Biology degree (magna cum laude) at the Saint Louis University, Baguio City in the Philippines. She took the licensure examination for secondary teachers in 2003 where she ranked no. 10 among the examinees. She earned her masters degree in Genetics at the premier state university, University of the Philippines Los Baños. She taught in the same university from 2006-2017 handling lecture and laboratory classes in general biology, cell biology, genetics, and molecular genetics. Apart from teaching, her work involved proposing and revising laboratory manuals and mentoring students in their research work.



Key Concepts in Biotechnology

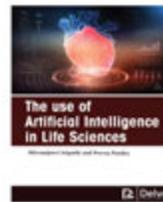
Smitha Nair

In this book, definitions of key terms related to biotechnology have been explained briefly. Biotechnology is a broad area of biology, involving the use of living systems and organisms to develop or make products. Depending on the tools and applications, it often overlaps with related scientific fields.

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About the Author

Dr. Smitha Nair is a biotechnologist, specializing in the field of bioremediation; particularly phytoremediation. She is currently associated with the Biotechnology Department, Mumbai University as a research associate and is actively involved in bioremediation projects. Her last published work was “Introduction to Life science”, published by Delve Publishing. Dr. Nair completed her early schooling in M.E.S Indian School, Doha, Qatar. She passed out as a gold medalist in BSc Biotechnology from U.C. College, M.G. University, and further went on to complete her MSc in biotechnology from P.S. G. College, Bharathiar University. She worked as a guest lecturer at Cochin University and later as a lecturer at Thakur College of Arts and Science in their respective Departments of Biotechnology. Bhabha Atomic Research Centre is her alma mater which introduced her to the world of bioremediation. She joined there as a research fellow and went on to complete her Ph.D. adopting transgenic plant technology for phytoremediation of contaminated soils. Science is her passion and she works towards contributing to correcting at least some of the damage we, as humans, have inflicted on mother earth. Music, books, and travel are her other best friends.



The use of Artificial Intelligence in Life Sciences

Shivsanjeevi Sripathi and Prerna Pandey

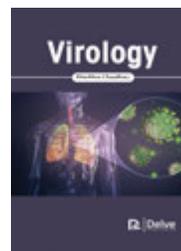
This book explains the various potential and existing applications of artificial intelligence across several fields ranging from agriculture to medicine to space exploration and crops. It is a first-ever book to compile all the applications to enable readers from scientific and non-scientific backgrounds to grasp the concepts and applications of “thinking machines”.

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About the Authors

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane” following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, worked at International Center for Genetic Engineering and Biotechnology, New Delhi. Her field of research in PhD included isolation and molecular characterization of geminiviruses, genome sequencing, gene annotation, and gene silencing using the RNA interference technology. She has also worked at Transasia Biomedicals and Advance Enzyme Technologies as a scientist. Prerna has published papers in peer-reviewed journals, and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. She has also completed her editing and proof-reading courses from Society for the promotion of Editors and Proof-readers, UK and now works as a freelance scientific editor and writer. When Prerna is not busy with her assignments, she loves to explore historical places.



Virology

Khushboo Chaudhary

In a more modern sense, Virology has acquired a broader significance as it encompasses the study of ecology, evolution of viruses, interaction among viruses and other microorganisms, and the ability of viruses to deliver their own and heterologous genetic information into cells. There are many books on the subject of Virology but updated information is not incorporated in the edition. This book has covered a range of syllabus and the student is an easy way to go through this book content. This book would serve not only for undergraduate but postgraduate students of biotechnology and also research scholar of various universities.

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About the Author

Dr. Khushboo Chaudhary is presently working as a Technical officer-I in Translational Health Science and Technology Institute, Faridabad Haryana, India and having one year of teaching experience and eight years of research experience. Previously, she worked on the PPR virus and New Castle Disease virus and isolates many other viruses from animal outbreak samples. She has published several research papers in international and national journals. She has published five international textbooks. She has got seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the international conference. She has got the best poster award by ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in a virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.



Key Concepts in Biology

Esha Rami and Gaurav Shrimali

The book addresses numerous key definitions or terms of Biology. Biology is the study of life. The word "biology" is derived from the Greek words "bios" (meaning life) and "logos" (meaning "study"). In general, biologists study the structure, function, growth, origin, evolution and distribution of living organisms.

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About the Editors

Dr. Esha Rami, is presently working as Assistant Professor & Head, Department of Biotechnology, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated and PhD in Biotechnology from Ganpat University. She has authored a number of national and international publications.

Mr. Gaurav Shrimali received M.Sc. in Biotechnology degree from Ganpat University Mehsana Gujarat in 2009. In 2010 he started working as a production officer in Novartis vaccine of one year. In 2011 he joined as a Junior Research Fellow at Department of Life Science, Hemchandracharya North Gujarat University Patan. In January 2016 he became an Assistant Professor in Biotechnology at the Nootan Science College Visnagar. In July 2016 he became Head of the Department in Biotechnology at Parul Institute of Applied Sciences and Research, Ahmedabad. So he has more than 7 years teaching experience at UG/PG level. He has guided more than 40 post graduate students. He has 7 national/international research article published in peer reviewed journals. He has presented his research work in more than 10 national /international conferences. He has given several expert talks at state/national level. His research interest covers several aspects across plant biotechnology, molecular biology, genetic engineering, bioinformatics and recombinant DNA technology. He has research experience in bioplastic-biofertilizer-biopesticides production, Plant tissue culture, plant growth hormone study, plant stress physiology, phytochemical analysis, protein profiling, PCR based techniques, fermentation technology etc. Apart from academics he also has experience in administration. He has performed duties as an exam coordinator, IQAC coordinator and Alumni coordinator and he is a member of board of studies too.

Basic Biology



Khushboo Chaudhary and Pankaj Kumar Saraswat

As a field of science, biology helps us understand the living world and the ways its many function, evolve, and interact. This guide book has covered a range of syllabus and the student is an easy way to go through this book content. The chapters have been so arranged to give a sequential knowledge of the introductory basic biochemistry, enzymology, cell biology and molecular biology, techniques in biochemistry, biotechnology,

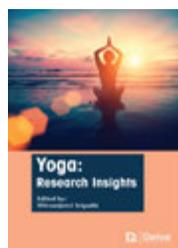
plant and animal tissue culture in this guide book. This book would serve not only for undergraduate but postgraduate students of all life science students, and also research scholars of various universities.

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About the Authors

Dr Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and having one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international text books. She has got seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award by ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

Dr. Pankaj Kumar Saraswat graduated from R.B.S. College Bichpuri (Agra University) Agra in 1996, completed post-graduate and Ph.D. in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004 respectively. Dr. Saraswat started his career at H.N.B.G. University Srinagar Garhwal Uttarakhand in 2005 as a lecturer in Soil Science and moved as Subject Matter Specialist (Soil Science) to KVK Banasthali Vidyapith Tonk Rajasthan. In October 2015 Dr. Saraswat joined ICAR-RC for N.E.H Region Umiam as Sr. Scientist & Head at KVK Tamenglong Manipur. Dr. Saraswat as P.I. completed two research projects externally funded from SERC-DST Govt. of India New Delhi and DST-Govt. of Rajasthan Jaipur. At the same time, he also conducted four INSPIRE-Internship Science Camps under the SEAT program of DST for 10th pass top 1% students of Rajasthan. He has published three international text books Presently Dr. Saraswat has been working for agricultural technology assessment and demonstrations for its wider application at farmers' field along with capacity development programs for farmers, farm women, rural youth, line departments and other stakeholders and also working as P.I. in one of NEC Shillong funded demonstration based project in Tamenglong district Imphal, Manipur.



Yoga: Research insights

Shivsanjeevi Sriipathi

Derived from the Sanskrit word meaning to join ("yuj"), yoga looks at merging the consciousness of an individual with that of the universal consciousness. The sincere practice of yoga takes one to this final layer where one feels bliss leading to mind-body-breath union and health. Current research is highlighting the benefits of yoga in a host of conditions. This ranges from handling stress, depression, anxiety to overcoming trauma and addressing the management of a slew of diseases such as diabetes, hypertension, irritable bowel syndrome, multiple sclerosis, etc. This book is Part 1 of Yoga: research insights where the benefits offered by this approach are outlined using research articles. It starts off with a chapter on handling COVID-19 that is followed by how yoga helps manage diabetes and how yoga is useful for other conditions such as chronic fatigue, HIV and inflammation.

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About the Editor

ShivSanjeevi Sriipathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, "Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in E.coli & M.smeigmatis. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



Red biotechnology: Insights

Shivsanjeevi Sriipathi

The statistics of health issues coupled with the COVID-19 pandemic that is devastating mankind across several spheres raise concerns about our health and wellbeing. This brings in the field of medical biotechnology or red biotechnology that is aimed at employing biotechnology to address diseases and malignancies. This book summarizes the aspects of vaccination with a chapter dedicated to the status of research of vaccination for COVID-19. The book also includes the latest approaches such as bispecific antibodies, their promise and their current status. Another interesting field is regenerative medicine that looks at restoring lost or damaged functions employing stem cells, growth factors, tissue regeneration and bioprinting of organs.

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About the Editor

ShivSanjeevi Sriipathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, "Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in E.coli & M.smeigmatis. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



Hypertension: Insights

Shivsanjeevi Sripathi and Prerna Pandey

Hypertension is described as the “silent killer” often showing no distinct symptoms or warning signs. The condition is estimated to affect 1.13 billion people across the globe with two-thirds in low/middle-income countries. This book presents research-backed data as to the trend in hypertension in children and adolescents along with associated factors such as sleep and even the impact of seasons! Another USP of this book is the connection between COVID-19 infection and hypertension. Overall, this book presents the current scenario of hypertension along with new advances and current gaps to help us to tackle the “silent killer”.

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About the Authors

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane” following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

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Microbiology Concepts with Experiments for Agricultural and Food Microbiology

Khushboo Chaudhary and Pankaj Kumar Saraswat

Microbes are vitally important to all life on Earth. As versatile organisms, they play a major role in various biochemical processes such as biodegradation, biodeterioration, climate change, food spoilage, epidemiology and biotechnology. The exponential rise in the quantity of scientific information and the rate at which new discoveries are made, require much elaborated, interdisciplinary and up-to date information and their understanding. The book “Microbiology Concepts with Experiments for Agricultural and Food Microbiology” has been written to serve as a guidebook for undergraduates and postgraduates of different universities. The chapters have been so arranged to give a sequential knowledge of the introductory basic agricultural microbiology, molecular biology, and plant metabolic pathways, elements of immunology, industrial microbiology, fermentation technology and principle working of basic equipment's in this guide book.

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About the Authors

Dr Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and having one year of teaching experience and seven years of research experience. Previously, she worked on “Improvement of Phytoremediation efficiency of Fluoride”. She has published several research papers in international and national journals. She has published five international text books. She has got seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award by ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

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137	9781774076361	Remote Sensing Techniques and GIS Applications in Earth and Environmental Studies	Earth and Environmental Science	2021	Solange Uwera, The University of Manchester, UK	165	Hardcover
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172	9781774077399	Crop Pests and Stored Grain Pests and their Management	Agriculture and Plant Science	2021	Nekesah T. Wafullah, University of Nairobi, Kenya	160	Hardcover
173	9781774077504	Encyclopedia of Environmental Management (set of 5 volumes)	Earth and Environmental Science	2021	Vierah Hulley, University of the Free State, South Africa	825	Hardcover
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196	9781774078006	Encyclopedia of Ethnobotany (set of 3 volumes)	Agriculture and Plant Science	2021	Akansha Singh, College of Agriculture, Parul University, India and Mohammad Waseemul Islam, Ajman University, Ajman, UAE	480	Hardcover
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198	9781774078020	Vol 2: Ethnobotany: Medicinal Plants	Agriculture and Plant Science	2021	Akansha Singh, College of Agriculture, Parul University, India and Mohammad Waseemul Islam, Ajman University, Ajman, UAE	160	Hardcover
199	9781774078037	Vol 3: Ethnobotanical Analysis of Wild Food Plants Traditionally Collected and Consumed	Agriculture and Plant Science	2021	Akansha Singh, College of Agriculture, Parul University, India and Mohammad Waseemul Islam, Ajman University, Ajman, UAE	160	Hardcover
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241	9781774072448	Fish and wildlife ecology and biology	Aquaculture and Fisheries	2020	Anjanette S. Tadena, Department of Agriculture, Philippines	160	Hardcover
242	9781774072455	Climate Change Impacts on Fisheries and Aquaculture: A Global Analysis	Aquaculture and Fisheries	2020	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
243	9781774072462	Role of Fisheries in Rural Development	Aquaculture and Fisheries	2020	Sushma Nigam	160	Hardcover
244	9781774072479	Molecular research in Aquaculture	Aquaculture and Fisheries	2020	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
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246	9781774072585	Environmental Neurotoxicology	Earth and Environmental Science	2020	Urvashi Swami, Panjab University, India	165	Hardcover
247	9781774072592	Tropical Food Science	Food Science	2020	Cristina García Jaime, Granada University, Spain	95	Hardcover
248	9781774072738	Renewable Resources and Global Challenges	Earth and Environmental Science	2020	Mohit Chhabra, University of Colorado Boulder, USA	165	Hardcover
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250	9781774072790	Urban Agriculture and Rural Agriculture: The International Market	Agriculture	2020	Stephanya Lynn JonasLabee, University of Amsterdam, Netherlands	160	Hardcover
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253	9781774072844	Antibiosis and Antibiotics in Agriculture	Agriculture	2020	Preethi Kartan, University of Leeds, UK	160	Hardcover
254	9781774072868	Food Security and Crop Yield	Agriculture	2020	Akansha Singh, College of Agriculture, Parul University, India	160	Hardcover
255	9781774072875	Organic and Conventional Agriculture	Agriculture	2020	Akansha Singh, College of Agriculture, Parul University, India	160	Hardcover
256	9781774072905	Ensuring Global Food Safety: Exploring Global Harmonization	Agriculture	2020	Oliva DSouza	160	Hardcover
257	9781774072912	Proteomics in Food Science	Food Science	2020	Abeer Iqbal, University of The Punjab, Pakistan	160	Hardcover
258	9781774072929	Marine Ecosystem: Changing Scenario and Sustainability	Aquaculture and Fisheries	2020	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
259	9781774072936	Mineral Resources and Sustainability Assessment	Earth and Environmental Science	2020	Vierah Hulley, University of the Free State, South Africa	165	Hardcover
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261	9781774072974	Waste Management and the Food Industry	Food Science	2020	Akansha Singh, College of Agriculture, Parul University, India and Shobhit Kumar Singh, Banaras Hindu University, India	160	Hardcover
262	9781774073094	Introduction to Life Science	Life Sciences	2020	Smitha Nair, Mumbai University, India	95	Hardcover
263	9781774073247	World Regional Geography	Earth and Environmental Science	2020	Amrita Pandey, School of Planning and Architecture, Delhi, India	165	Hardcover
264	9781774073254	Applied Human Geography	Earth and Environmental Science	2020	Rodolfo B. Valdenarro, Laguna State Polytechnic University, Philippines	165	Hardcover
265	9781774073285	Principles of Animal Growth and Development	Animal and Veterinary Science	2020	Patricia Marques, University of Maryland Baltimore, USA	160	Hardcover
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268	9781774073384	Animal venoms: their source, composition, and uses	Animal and Veterinary Science	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
269	9781774073407	Lipids in health: their source, composition, and uses	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
270	9781774073414	Silicon Biology	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India	160	Hardcover
271	9781774073421	Gels: their use in life sciences	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
272	9781774073445	Genomics in precision medicine	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
273	9781774073469	Molecular Breeding of Crop Plants	Agriculture	2020	Rajesh Singh, Purnea University, India	160	Hardcover
274	9781774073476	Pest Control for Sustainable Agriculture	Agriculture	2020	Chenggui Sun, University of Waterloo, Waterloo, ON	160	Hardcover
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276	9781773612768	Geriatric Nutrition	Food Science	2020	Sara Diana Garduno Diaz, University of Leeds, UK	160	Hardcover
277	9781774073667	Introduction to Biotechnology and Biostatistics	Life Sciences	2020	Khushboo Chaudhary, Banasthali University, India	160	Hardcover
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279	9781774073728	Information Technology in agriculture	Agriculture	2020	Hazem Shawky Fouda, Alexandria University, Egypt	160	Hardcover
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286	9781773613680	Ecological Genomics	Life Sciences	2019	U. S. Raghavender, Indian Institute of Science, Bangalore, India	165	Hardcover
287	9781773613697	Rapid methods in Food Microbiology	Food Science	2019	Chenggui Sun, University of Waterloo, Waterloo, ON	165	Hardcover
288	9781773613710	Cellular Therapy	Life Sciences	2019	Shraddha Gautam, Anjali Priyadarshini and Prerna Pandey, Banasthali University, India	165	Hardcover
289	9781773613727	Medicinal Plants Biotechnology	Agriculture	2019	DR. ZEB SADDIQA, Lahore College for Women University, Lahore, Pakistan	165	Hardcover
290	9781773613826	Agricultural Biotechnology	Agriculture	2019	ARIT OKON EFRETUEI, University of Reading, UK	165	Hardcover
291	9781773613833	Artificial Insemination of Farm Animals	Animal and Veterinary Science	2019	Stephen Rego, Forsyth Technical Community College., USA	165	Hardcover
292	9781773613871	GTPases in Cellular Signalling	Life Sciences	2019	Prerna Pandey, Banasthali University, India and Shiv Sanjeevi, Vaze College, Mumbai, India	165	Hardcover
293	9781773615714	Recent Advances in Plant in Vitro Culture	Agriculture	2019	Rabia Iftikhar, Lahore University of Management Sciences, Pakistan	165	Hardcover

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295	9781773613895	Principles of Molecular Virology	Life Sciences	2019	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
296	9781773613918	Climate Change and Water Resources	Earth and Environmental Science	2019	Judith Rosales, University of Birmingham, UK	165	Hardcover
297	9781773613932	Handbook of Minerals and Nutrients	Food Science	2019	Roksana Khalid, McMaster University, Canada	175	Hardcover
298	9781773613949	Biocomputation and Biomedical Informatics	Life Sciences	2019	U. S. Raghavender, Indian Institute of Science, Bangalore, India	165	Hardcover
299	9781773613956	Urban Forest Ecosystem Management	Earth and Environmental Science	2019	Syed Wajahat, School of Ecological and Environmental Sciences East China Normal University, China.	165	Hardcover
300	9781773613963	Molecular Toxicology	Life Sciences	2019	Elena Ostrakhovitch, Russian Academy of science, Russia	165	Hardcover
301	9781773614007	Sustainability in the Food Industry	Food Science	2019	Cristina García Jaime, Granada University. Spain	165	Hardcover
302	9781773614076	Fishery Products: Quality and Safety	Aquaculture and Fisheries	2019	ANJANETTE S. TADENA, Department of Agriculture, Philippines	160	Hardcover
303	9781773614083	Environmental Applications of Remote Sensing	Earth and Environmental Science	2019	Solange Uwera, The University of Manchester, UK	165	Hardcover
304	9781773614090	Industrial Waste Management	Earth and Environmental Science	2019	Rose Marie O. Mendoza, University of Philippines, Philippines	165	Hardcover
305	9781773614106	Climate Change Adaptation	Earth and Environmental Science	2019	Judith Rosales, University of Birmingham, UK	165	Hardcover
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312	9781773614427	Agricultural Marketing	Agriculture	2019	NEKESAH T. WAFULLAH, University of Nairobi, Kenya	165	Hardcover
313	9781773614441	Environmental Planning for Oceans and Coasts	Earth and Environmental Science	2019	Judith Rosales, University of Birmingham, UK	165	Hardcover
314	9781773614458	Supply Chain Management for Sustainable Food Networks	Agriculture	2019	Elisa Gomez Gonzalez, Universidad San Pablo, Spain	165	Hardcover
315	9781773614465	Cotton Pest Management	Agriculture	2019	Hazem Fouda, Alexandria University, Egypt	165	Hardcover
316	9781773611921	Remote sensing in Biology: An overview	Life Sciences	2019	Perna Pandey, Banasthali University, India and Shiv Sanjeevi, Vaze College, Mumvai India	165	Hardcover
317	9781773614564	Food Industry: Processes and Technologies	Food Science	2019	Patrícia Alexandra Batista Branco, Higher Institute of Agronomy, Lisbon, Portugal	165	Hardcover
318	9781773614571	Frozen Food Technology	Food Science	2019	Patrícia Alexandra Batista Branco, Higher Institute of Agronomy, Lisbon, Portugal	165	Hardcover
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321	9781773610351	Genetically Modified Organisms in Food Production	Life Sciences	2019	UMAIYAL MUNUSAMY, Institute of Plantation Studies UPM, Malaysia	165	Hardcover
322	9781773610573	Fungi and their Utilizations	Life Sciences	2019	Rabia Iftikhar, Lahore University of Management Sciences, Pakistan	165	Hardcover
323	9781773610825	Proteomics in Biomarker Identification	Life Sciences	2019	Mohamed A. Selmy, Suez Canal University, Egypt	165	Hardcover
324	9781773611518	Plant Biomass Utilization in Nature: Agriculture and Industry	Agriculture	2019	Ghazala Yaqub, Kinnaird College for Women, Paskistan	165	Hardcover
325	9781773611594	Proteogenomics	Life Sciences	2019	Mohamed A. Selmy, Suez Canal University, Egypt	165	Hardcover
326	9781773612003	Pest Resistant Plants	Agriculture	2019	Dr. MUHAMMAD AKHLAS, School of Environmental Science, University of East Anglia, Norwich, UK	165	Hardcover
327	9781773612454	Marine Mammal Biology: An Evolutionary Approach	Aquaculture and Fisheries	2019	POOJA PANDYA, Nirma University, India	160	Hardcover
328	9781773612522	Organic Fertilizers: Potentialities and Problems	Agriculture	2019	Ghazala Yaqub, Kinnaird College for Women, Paskistan	165	Hardcover
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330	9781773612836	Precision Agriculture and the Future of Farming	Agriculture	2019	Annie Bobby Zachariah, Allahabad Agricultural Institute, India	165	Hardcover
331	9781773615721	Encyclopedia of Environmental Science (set of 7 Volumes)	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	1155	Hardcover
332	9781773613086	Encyclopedia of Environmental Science Vol1: Ecological Concepts and Environmental Science	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
333	9781773613093	Encyclopedia of Environmental Science Vol2: Management of Ecosystems	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
334	9781773613109	Encyclopedia of Environmental Science Vol 3: Biodiversity and Ecological Assessments	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
335	9781773613116	Encyclopedia of Environmental Science Vol 4: Microbiology of Wetlands	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
336	9781773613123	Encyclopedia of Environmental Science Vol5: Integrated Water Management	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
337	9781773613130	Encyclopedia of Environmental Science Vol 6: Social Aspects of Water Management	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
338	9781773613147	Encyclopedia of Environmental Science Vol 7: Environmental Economics	Earth and Environmental Science	2019	Shalinee Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
339	9781773614731	Gene Editing: An Update	Life Sciences	2019	Perna Pandey, Banasthali University, India and Shiv Sanjeevi, Vaze College, Mumvai India	165	Hardcover
340	9781773614748	Natural Additives in Fish Processing	Aquaculture and Fisheries	2019	Dr. Viji Pankyamma and Perna Pandey, Banasthali University, India	165	Hardcover
341	9781773613352	Laboratory Manual of Microbiology and Soil Science (2 volumes)	Life Sciences	2019	Dr. Suphiya Khan, Banasthali University, India and Khushboo Chaudhary, Banasthali University, India	350	Hardcover
342	9781773612584	Soil Erosion Aspects in Agriculture	Agriculture	2019	Sumbal Imdad, Arid Agriculture University, Pakistan and Mazhar Rafique, Mazhar Rafique, Quaid-i-Azam University, Pakistan	165	Hardcover
343	9781773612799	Ecological Boundary Interactions	Earth and Environmental Science	2019	Quan Cui, Beijing Normal University, China	165	Hardcover

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344	9781773614847	Signal Transduction in Cancer	Life Sciences	2019	Mohamed A. Selmy, Suez Canal University, Egypt	165	Hardcover
345	9781773614922	Plant Breeding from Laboratories to Fields	Agriculture	2019	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
346	9781773614939	Alternative Crops and Cropping Systems	Agriculture	2019	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
347	9781773614946	Breeding Field Crops	Agriculture	2019	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
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354	9781773615141	Cellular signaling and phosphoproteomics	Life Sciences	2019	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover
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367	9781773615363	Structural Biology of Membranes	Life Sciences	2019	Stephen Rego, Forsyth Technical Community College., USA	165	Hardcover
368	9781773615370	Redox biology and cellular metabolism	Life Sciences	2019	Stephen Rego, Forsyth Technical Community College., USA	165	Hardcover
369	9781773615523	Sex Control in Aquaculture	Aquaculture and Fisheries	2019	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
370	9781773615530	Aquaculture and the Environment	Aquaculture and Fisheries	2019	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover

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371	9781773611983	Sex differentiation in Fishes	Aquaculture and Fisheries	2019	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
372	9781773615585	Ecology and Management of Forest Soils	Agriculture	2019	Carlos Tello Lecal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
373	9781773615677	Trends and Advances in Veterinary Genetics	Animal and Veterinary Science	2019	Cheryl Natividad, University of the Philippines Los Baños, Philippines	160	Hardcover
374	9781773615684	Encyclopedia of Primatology	Life Sciences	2019	Manoranjan Prasad Sinha, S.K.M. University, India	180	Hardcover
375	9781773615707	Soilless Farming: The New Trend of Farming	Agriculture	2019	Annie Bobby Zachariah, Allahabad Agricultural Institute, India	165	Hardcover
376	9781773610016	Industrial Ecology	Earth and Environmental Science	2018	Nataliya O. Smith, Petro Mohyla Black Sea National University, Ukraine	155	Hardcover
377	9781773610078	Water Security	Earth and Environmental Science	2018	Judith Rosales, University of Birmingham, UK	155	Hardcover
378	9781773610191	Food Quality Control: Methods, Importance and Latest Measures	Food Science	2018	Cristina García Jaime, Granada University. Spain	160	Hardcover
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380	9781773610306	Single-Cell Research: Revolutionizing Molecular Biology	Life Sciences	2018	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover
381	9781773610313	Nanomedicine and Nanotechnology: Possibilities and Challenges	Life Sciences	2018	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover
382	9781773610320	Recent Advances in Super-Resolution Microscopy Imaging	Engineering and Technology	2018	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover
383	9781773610337	Pesticides in Aquatic Environments	Aquaculture and Fisheries	2018	Erick Soares Lins, University of Saskatchewan, Canada	160	Hardcover
384	9781773610344	Pesticides and Their Effects on Biological Organisms	Agriculture	2018	Levitah Castil Mapatac, University in Science and Technology of Southern Philippines, Philippines	160	Hardcover
385	9781773610375	Shrimp Farming: Challenges and Current Situation	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	155	Hardcover
386	9781773610382	Marine Fish Farming	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
387	9781773610399	Seaweed Cultivation	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
388	9781773610405	Cultivation of Microalgae	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
389	9781773610412	Aquaculture and Genetic Improvement	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	190	Hardcover
390	9781773610429	Ecology and Management of Aquatic Environments	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
391	9781773610436	Regulation of Cation Homeostasis in Plants	Agriculture	2018	Carlos Tello Lecal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	210	Hardcover
392	9781773610443	Signalling Pathways in Abiotic Stress	Agriculture	2018	Carlos Tello Lecal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	160	Hardcover

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394	9781773610467	Seed Molecular Biology	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	160	Hardcover
395	9781773610474	Regulation of Water Balance in Plants	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	200	Hardcover
396	9781773610481	RNA silencing in plants	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	160	Hardcover
397	9781773610498	Photosynthesis and Plant Light Requirements	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	210	Hardcover
398	9781773610504	Comparative Growth of Mammalian, Insect and Plant Cells	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	210	Hardcover
399	9781773610566	Microorganisms and their Utilizations	Life Sciences	2018	Mazhar Rafique, Quaid-i-Azam University, Pakistan	160	Hardcover
400	9781773610580	Tools and Techniques in Biology	Life Sciences	2018	UMAIYAL MUNUSAMY, Institute of Plantation Studies UPM, Malaysia	160	Hardcover
401	9781773610627	Metabolomics	Life Sciences	2018	Shiv Sanjeevi, Vaze College, Mumvai India and Prerna Pandey, Banasthali University, India	165	Hardcover
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406	9781773610856	Coarse-Grained Molecular Dynamics	Life Sciences	2018	Maria Emilova Velinova, University of Sofia, Bulgaria	160	Hardcover
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410	9781773611051	Advances in Bioprocess Technology	Engineering and Technology	2018	Preethi Kartan, University of Leeds, UK	165	Hardcover
411	9781773611068	Enzyme Engineering	Life Sciences	2018	Preethi Kartan, University of Leeds, UK	165	Hardcover
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414	9781773611105	Next Generation Sequencing & Applications	Life Sciences	2018	Preethi Kartan, University of Leeds, UK	165	Hardcover
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416	9781773611129	Advances in Dairy Research	Animal and Veterinary Science	2018	Preethi Kartan, University of Leeds, UK	165	Hardcover
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418	9781773611143	Carbon Management	Earth and Environmental Science	2018	Quan Cui, Beijing Normal University, China	160	Hardcover
419	9781773611167	Geographic Information Systems in Environment Management	Earth and Environmental Science	2018	Quan Cui, Beijing Normal University, China	160	Hardcover

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420	9781773611174	Environmental Accounting	Earth and Environmental Science	2018	Quan Cui, Beijing Normal University, China	160	Hardcover
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425	9781773611228	Current Scenario in Biofuels Production	Engineering and Technology	2018	Sarika Garg, University of Saskatchewan, Canada	160	Hardcover
426	9781773611365	Proteomics Applications in Food Science	Food Science	2018	Valeria Severino, Second University of Naples, Italy	160	Hardcover
427	9781773611471	RNAi Technologies	Life Sciences	2018	Prerna Pandey, Banasthali University, India	160	Hardcover
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430	9781773611501	Pyrosequencing: Innovations and Applications	Life Sciences	2018	Prerna Pandey, Banasthali University, India	165	Hardcover
431	9781773611617	Role of Microbes in Bioremediation of Pollutants	Earth and Environmental Science	2018	Navodita Bhatnagar, Institute of Technology, Carlow Ireland	160	Hardcover
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436	9781773611709	Minerals For Life	Food Science	2018	Roksana Khalid, McMaster University, Canada	155	Hardcover
437	9781773611716	Algal Biofuel: Recent Advances	Engineering and Technology	2018	Abida Taskeen, Qarshi University, Lahore Pakistan	165	Hardcover
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445	9781773611822	Aflatoxins - Recent Advances and Future Prospects	Chemistry	2018	Vikas Mishra, University of British Columbia, Canada	165	Hardcover
446	9781773611846	Enzyme Biocatalysis	Life Sciences	2018	Vikas Mishra, University of British Columbia, Canada	160	Hardcover
447	9781773611853	Molecular Wires	Life Sciences	2018	Shiv Sanjeevi, Vaze College, Mumvai India and Prerna Pandey, Banasthali University, India	165	Hardcover
448	9781773611860	Bionics: Artificial Life Parts	Life Sciences	2018	Shiv Sanjeevi, Vaze College, Mumvai India and Prerna Pandey, Banasthali University, India	165	Hardcover

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452	9781773611938	Forest Ecology: Past, Present and Future	Earth and Environmental Science	2018	Prashant Pant, Dyal Singh College, University of Delhi, India, Pratibha Pant, Daulat Ram College, University of Delhi, India and Prerna Pandey, Banasthali University, India	160	Hardcover
453	9781773611945	Next Generation Sequencing and Microbial Ecology	Life Sciences	2018	Prashant Pant, Dyal Singh College, University of Delhi, India, Pratibha Pant, Daulat Ram College, University of Delhi, India and Prerna Pandey, Banasthali University, India	165	Hardcover
454	9781773611952	Role of Microbes in Restoration Ecology	Earth and Environmental Science	2018	Prashant Pant, Dyal Singh College, University of Delhi, India, Pratibha Pant, Daulat Ram College, University of Delhi, India and Prerna Pandey, Banasthali University, India	160	Hardcover
455	9781773611969	Bacteriophages for Plant Disease Control	Agriculture	2018	Prashant Pant, Dyal Singh College, University of Delhi, India, Pratibha Pant, Daulat Ram College, University of Delhi, India and Prerna Pandey, Banasthali University, India	160	Hardcover
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458	9781773612010	Applications of Microorganisms in Industrial Biotechnology	Life Sciences	2018	Patrícia Alexandra Batista Branco, Higher Institute of Agronomy, Lisbon, Portugal	160	Hardcover
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466	9781773612478	Milk Production: Animal Nutrition, Management and Health	Animal and Veterinary Science	2018	Nada Ben Abdallah, University of Zurich, Switzerland	160	Hardcover
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498	9781680958980	Fungal Pathogenesis in Plants and Crops: Molecular Biology and Host Defense	Agriculture and Life Sciences	2017	Carlos Tello Lacal, Ph.D	170	Hardcover
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504	9781680957495	Recent Advances in Plant Genetic Engineering	Agriculture and Life Sciences	2017	Aleksei Anatoliyovych Stepanenko, Ph.D.	180	Hardcover
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S.no	ISBN	Title	SUBJECT AREA	YEAR	AUTHOR / EDITOR	PRICE \$	Binding
600	9781680958508	Handbook of Microalgal Culture: Applied Phy-cology and Biotechnology	Aquaculture and Fisheries	2017	Preethi Kartan	180	Hardcover
601	9781680958515	Functional Genomics in Aquaculture	Aquaculture and Fisheries	2017	Linda Lait	170	Hardcover
602	9781680958522	Aquaculture Biotechnology	Aquaculture and Fisheries	2017	Preethi Kartan	170	Hardcover
603	9781680958539	Handbook of Seafood Quality, Safety and Health Applications	Aquaculture and Fisheries	2017	Bruno Augusto Amato Borges	180	Hardcover
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606	9781680958560	Sustainable Aquaculture: Management and Techniques	Aquaculture and Fisheries	2017	Bruno Augusto Amato Borges	165	Hardcover
607	9781680958577	Sustainable Fish Farming	Aquaculture and Fisheries	2017	Dan Piestun, Ph.D.	165	Hardcover
608	9781680958584	Fundamentals of Veterinary Science	Animal and Veterinary Science	2017	Stephen Rego, Ph.D.	165	Hardcover
609	9781680958591	Anatomy and Physiology of Farm Animals	Animal and Veterinary Science	2017	Stephen Rego, Ph.D.	170	Hardcover
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613	9781680958638	Diseases of Sheep	Animal and Veterinary Science	2017	SARIKA GARG, Ph.D.	165	Hardcover
614	9781680958645	Diseases of The Goat	Animal and Veterinary Science	2017	Stephen Rego, Ph.D.	165	Hardcover
615	9781680958652	Functional Anatomy and Physiology of Domestic Animals	Animal and Veterinary Science	2017	Stephen Rego, Ph.D.	170	Hardcover
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649	9781680957310	Solid State Chemistry: An Introduction	Chemistry	2017	Jean Annerie Hernandez	145	Hardcover
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672	9781680959345	Electronic Media and Broadcasting	Journalism and Mass Communication	2017	SANDRA M. MARTINEZ	145	Hardcover
673	9781680959352	Introduction to Journalism	Journalism and Mass Communication	2017	Jericka Orellano	145	Hardcover
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