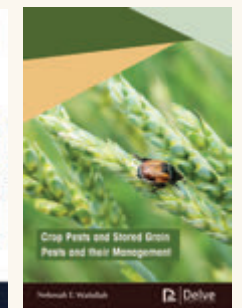
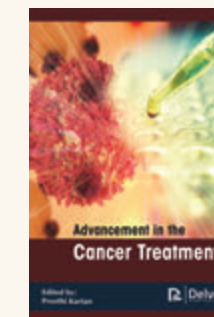
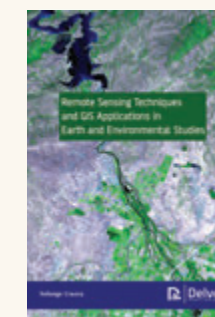
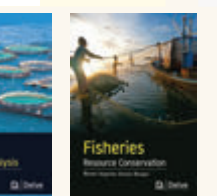
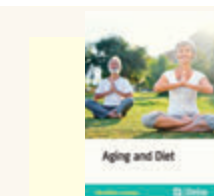


NEW TITLES

CATALOG 2021



- ▶ Agriculture and Plant Science
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- ▶ Aquaculture and Fisheries
- ▶ Earth and Environment Sciences
- ▶ Food Science and Nutrition
- ▶ Life Sciences



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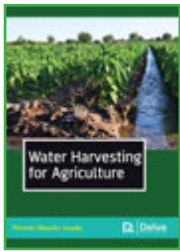
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Water Harvesting for Agriculture

Hazem Shawky Fouda

Water harvesting was considered as an important aspect in the agriculture. This book explains the role of water in increasing the crop yields and its importance in associated industries. The importance of domestic rain water harvesting was explained with examples. The effect of surface runoff on the crops and farming methods was described in detail. The loss of important soil nutrients due to runoff was described. The design of the water harvesting systems was illustrated. The components needed in the water harvesting system was emphasized. Different types of water harvesting systems was explained in this book. The importance of water harvesting techniques in the developing countries was discussed in detail. The rainfed agriculture system was emphasized in this book. The role of ecosystem services in maintaining water harvesting systems was explained.

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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 is working in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till present. 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.



Developments in Plant Genetics

Cheryl Natividad

Plant genetics has come a long way from the time Gregor Mendel observed the traits of his pea plants. This book provides a glimpse on the advancements in plant genetics, putting emphasis on the various sequencing technologies that were instrumental in unlocking the plant genome. The plant genome has also lent itself to manipulation and modification, contributing greatly to the body of genetic knowledge as well as producing economically-, nutritionally-, and medically-significant plants. This book compiles and describes these plant genetic engineering and genomic editing approaches.

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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.



Urban Trees and Greenspace in a Changing Climate

Nekesah T. Wafullah

Cities that pride in only huge concrete structures deny the citizens the benefits of greenspaces. City planning should add green space establishment and maintenance as an important aspect in maintaining a healthy and scenic city. This can be achieved by following simple guidelines in policy, establishment and maintenance. This book shows some policy measures that would encourage participation in funding, establishment and maintain ace of urban greenspaces. The guidelines also show step by step on how to choose greenspace sites, types of trees to choose, establishment and maintenance. The book also provides case studies of restored and maintained green spaces after years of destruction through grabbing and neglect. Green spaces are important for healthy urban community; therefore, each urban authority should aim at providing sufficient greenspaces.

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About the Author

A skilled agriculture expert with extensive knowledge in project management, agricultural energy, various forms of fertilizer, their production, marketing, application regimes and policies; business development management services; cross border fertilizer trade policies; product registration and efficacy trials and assessment; legume production and marketing aspects; food safety advocacy and policy issues; partnerships in businesses; youth, and women empowerment, and volunteerism. She is adept at project planning and strategic management as well as creating simple solutions to complex problems. As mentorship is one of her key areas, she has dedicated time to journey with high school and college students advocating for better performance in Agricultural sciences. She writes and edits agricultural books and loves watching movies, cooking, baking, networking, reading and dancing during her free time. She is also a food and fashion enthusiast. Nekesah holds an M.Sc. Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy



Embryology of Plants

Rajesh Singh

Embryology of Plants is a book that brings to the notice of the readers the various aspects of plant formation like the manner in which the plants reproduce, the ways in which the cells are formed and the functions of different parts of a plant. The book takes a deep dive into the structure and existence of plants, explaining the role and importance of each part of it, especially in the development stages, where the cells are forming. This book tries to unravel the various embryological aspects of plants so that it can be informative for the students or readers who are pursuing this field and be helpful for their research.

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About the Author

Rajesh Singh is presently working as Professional Senior (Deputy Librarian) Electronic Resources & Training Division, University of Delhi, Delhi. A Gold Medalist from Banaras Hindu University, Varanasi, he has served Indian School of Mines, Dhanbad, MJP Rohilkhand University, Bareilly, and Dr. RML Avadh University, Faizabad, before moving to University of Delhi. He has also designed "Subject Portal" to help new entrants to the university. He is a prolific author and has around three dozens of papers to his credit.



Plant Growth Promoting Bacteria

Umaiyal Munusamy

This book contains 10 chapters and each chapter carries topics related to Plant Growth Promoting Bacteria (PGPB). Chapter 1, mainly describes the basic information of the whole content of plant growth-promoting bacteria (PGPB). In chapter 2, the author has collected the sources of PGPB that available in the natural resources or those bacteria that were already cultivated in the laboratory. In addition, in chapter 3, the author had delineated in detail about the traits that were present in most of the PGPB. Furthermore, in chapter 4, the author has described in detail how the trait that was presented in those PGPB were used in the mechanism of PGPB when it is interconnected with the plants. The author also has shown various types of production systems that can be used to cultivate the natural plant growth-promoting bacteria in chapter 5. Through this system, more and wider application or delivery of PGPB that can be carried out in the natural environment is well described in the chapter 6. The author also defined numerous types of concerns that may arise from the application of PGPB and specific policy that closely related to PGPB in chapter 7 and 8, respectively. Prior to the chapter 10 which conclude the whole content, the author has listed out in chapter 9 the success of PGPB research. The author hope that all readers will gain detailed information about PGPB through reading and referencing this book.

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About the Author

Umaiyal Munusamy is a Plant Scientist by profession, a writer and a science communicator by passion. She writes and works in the area of plant science. Umaiyal has spent many years of writing in journals, proceedings, books, book chapters, online articles and scientific display at science-art gallery. Umaiyal is an affiliate member of Young Scientist Network under Academy Science Malaysia (YSN-ASM). Umaiyal was listed as a Future Leaders from 100 countries by the Global Solutions of World Summit Forum for her contribution in creating awareness on Sustainable Development Goals (SDGs). She has received numbers of awards in research, academic and science communication. She has trained various professionals to write and communicate scientific concept with a range of audience with a tagline all scientist can communicate and writes beyond their borders.



Agroecology, Sustainable and Secure Food Systems

Saket Kushwaha

The capacity of the global food system to support a rising world population while preserving healthy ecosystems is the subject of much debate. Agroecology places a strong emphasis on human and social values, such as dignity, equity, inclusion and justice all contributing to the improved livelihoods dimension of the SDGs. The current book "Agroecology, Sustainable and Secure Food Systems" highlights practices that promote resilient agricultural practices, nurture sustainable food production systems, and empower small-scale food producers that help strengthen capacity for adaptation to climate change and help maintain ecosystems.

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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.



Automation and Robotics in Agriculture

Hazem Shawky Fouda

Recent progressions in mechanized farming technology have radically transformed the current agricultural industry to fulfill the rising and incessantly changing needs of consumers around the globe. To ensure the sufficient supply and production of quality crop plants, agriculture robots have appeared as a potential solution. Apart from robotic harvesting mechanisms, agricultural robots have enhanced the efficiency of planting, slicing, food preservation, and resource tracking. These robotic developments have proven beneficial for determining farmworker labor scarcities and growing crop yields. Both of these benefits are critical to ensure sustainable food production for consumers around the globe. This book provides a comprehensive review of key advances in the use of robots in agriculture. Although automation and robotics are making rapid inroads into different areas of agricultural farming, there is a great demand for improvement of existing robotic technology and the development of novel techniques. Eight chapters of this book summarise advances in guidance and location systems, machine vision, GPS technologies, actuation, navigation, control technologies, and communication. This book encompasses all of the fundamental aspects of automation and robotic technology used in agriculture. Therefore, this book can be considered as reference material for readers from diverse backgrounds including forestry, agriculture, robotics, and automobiles industry.

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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 is working in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till present. 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 Molecular Farming

Rajesh Singh

In this book, various plant molecular farming strategies to produce commercially viable molecules for industrial and pharmaceutical use are discussed. The book reviews some affordable technologies and strategies being established to increase the production and quality of plant-derived medicines, which are used in the pharmaceutical industry. It also mentions biosafety and regulatory factors, which are essential to eliminate possible health and environmental hazards (when strictly followed), and these are consequently essential to win public recognition, thus guarantee the industry's success. The book focuses on two main issues: the opportunities and challenges presented by contemporary plant molecular farming methods. It presents plant molecular farming as the future of pharmaceuticals industry.

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About the Author

Rajesh Singh is presently working as Professional Senior (Deputy Librarian) Electronic Resources & Training Division, University of Delhi, Delhi. A Gold Medalist from Banaras Hindu University, Varanasi, he has served Indian School of Mines, Dhanbad, MJP Rohilkhand University, Bareilly, and Dr. RML Avadh University, Faizabad, before moving to University of Delhi. He has also designed "Subject Portal" to help new entrants to the university. He is a prolific author and has around three dozens of papers to his credit.



Plant Pigments, Flavors and Textures

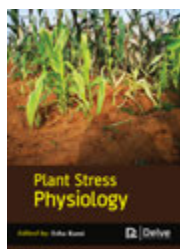
Shobhit Kumar Singh

The book 'Plant Pigments, Flavors and Textures' talks about the various kinds pigments that are present in the plants and can be extracted from them. The book also informs the readers about the flavors that are present in the plants and explains the different kinds on textures of various kinds of plants. From the book, the readers can get themselves updates about the various kinds of forms in which the plants can be found according to their application and usage. This book provides a deep insight into the various characteristics of the plants so that the readers are fully aware about the areas in which these can be applied.

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About the Editor

Dr S. K. Singh is Ph.D. in Agriculture with special reference to development of Bradyrhizobium japonicum strains for symbiotic nitrogen fixation in Soybean crop (Glycine max.) (2012) under the guidance of the renowned plant scientist, Prof. Dr. A. Vaishampayan.. He has 07 years of research experience in the field of Crop Improvement with special reference to Conventional Plant Breeding, Biodiversity of plant and their natural resources, varietal development of soybean and tea plants. Has long term experience in field oriented plant breeding, with special emphasis on tea varietal development program.



Plant Stress Physiology

Esha Rami

The recent past has seen a lot of environmental changes and climate changes that have been very evident. These changes have gone on to create a lot of stress on the various kinds of plants, which has impacted in the way they now grow and breed as compared to the previous times. The book 'Plant stress physiology' deals with this exact subject and informs the readers about the various ways in which the plants adapt themselves to survive the changing environment and climate conditions. It also emphasizes on the common methods used by plants to do so in drastically changing environments.

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About the Editor

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.



Flower Crop Cultivation and Management

Mohan Balasaheb Patil

In this book, various plant molecular farming strategies to produce commercially viable molecules for industrial and pharmaceutical use are discussed. The book reviews some affordable technologies and strategies being established to increase the production and quality of plant-derived medicines, which are used in the pharmaceutical industry. It also mentions biosafety and regulatory factors, which are essential to eliminate possible health and environmental hazards (when strictly followed), and these are consequently essential to win public recognition, thus guarantee the industry's success. The book focuses on two main issues: the opportunities and challenges presented by contemporary plant molecular farming methods. It presents plant molecular farming as the future of pharmaceuticals industry.

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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.



The Handbook of Pesticides

Hazem Shawky Fouda

The 'handbook of pesticides' is a comprehensive, scientific manual on the use, nature, effect and control of pesticides. It features contributions by experts from government pest management institutions, academia, and the private sector on issues associated to the needs, uses, and properties of chemicals found in modern pesticides. The book discusses pesticide crop residue limits; hazard levels of long-term human toxicity; and the chemical profile of different pesticides. This pesticide manual is an important reference tool for different readers spanning the food sector, the agricultural sector, environmental and industrial health/safety specialists and toxicologists. It also gives pesticide handlers tips on what to do for prevention of pesticide exposure and poisoning.

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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 is working in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till present. 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.



Greenhouse Design

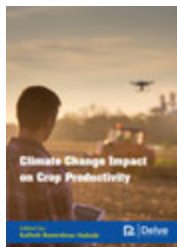
Saket Kushwaha

The concern for the greenhouse emissions and the gases resulting in global warming is rising by every passing day. There has been an emphasis on an increased construction of greenhouses so that there is preservation of the plants and so that the gases released are not harmful for the environment. This book 'Greenhouse Design' takes the readers through the various aspects of designing a greenhouse design such as the considerations taken while designing, the goals of designs, the costs involved and the final impact on the environment.

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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.



Climate Change Impact on Crop Productivity

Kailash Ramesh Rao Malode

Climate is considered as an averaged value of weather parameters for thirty years. This book discusses the effect of climate change on the crop plants. The basic concepts encircling the climate change were discussed. The adaptation of plants against the extreme climate patterns were explained in this book. The climate resilient agricultural practices were explained. Some of the agriculturally important microbes were explained in detail.

The crop productivity is being affected by the climate change patterns. Advanced techniques like genomics and breeding in relation to the climate change impacts were discussed. The effect of climate change on various levels of biodiversity was emphasized. The adaptation of agriculture against the climate change abnormalities were discussed in detail.

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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. 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



Grassland Management

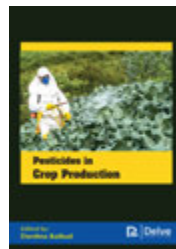
Stephanya Lynn Jonas-Labee

The book 'Grassland Management' informs the readers about the several aspects related to the management and looking after of the grasslands. Farming as well as cattle rearing requires an intensive care of the various kinds of grasslands. There are several important techniques involved and a lot of study on how to properly manage the grasslands. The study of such a subject gives improved results in agriculture as well as animal husbandry and hence, better returns. This book explains the various important aspects of grassland management to the readers for their benefit.

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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.



Pesticides in Crop Production

Darshna Rathod

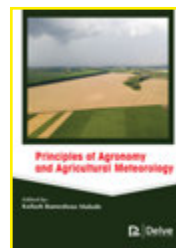
This book deals with the introductory concepts of pesticides and their classification. The role of herbicides in the controlling the weeds was explained in detailed. The importance of fungicides as chemicals and biological agents in combating the economic losses was described. Insecticides like organic insecticides and DDT were described in this book and their role in regulating insect species was emphasized. The nematocides can control the growth of nematodes in the crop plants and in this book, basic concepts of nematocides were described. Rodents in the crop species and their control via use of rodenticides was described in this book. The microbial pesticides and their role in the crop improvement were explained with examples. The biochemistry of the pesticides and their chemical interactions were described. The resistance of pests against pesticides was explained in detail.

The book explains the various important aspects of grassland management to the readers for their benefit.

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About the Editor

Dr. Darshana Rathod, is presently working as Assistant Professor, Department of Agricultural Entomology, College of Agriculture, Parul University, India. She graduated from the Anand Agricultural University, with doctorate in Agricultural Entomology in the year 2017. She was Awardee of National Fellowship for pursuing Ph.D. sponsored by University Grants Commission. She was also awarded by Dr. R. C. Patel award for the best Research done in Ph.D. by Plant Protection Association Group of Gujarat. She has authored a number of national and international publications.



Principles of Agronomy and Agricultural Meteorology

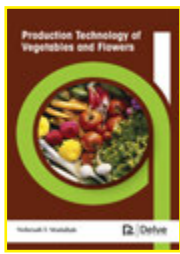
Kailash Ramesh Rao Malode

Agriculture is a very essential part of our lives. It is the sector that gives us our daily bread. There are various principles of agronomy which are essential for the agriculturists to follow to give better yields and more productivity – both in terms of quantity and quality. The book 'Principles of Agronomy and Agricultural Meteorology' talks about all those principles and the aspects of agricultural meteorology related to it. These are of great use to the people who are enthusiastic about agriculture and want to make a change.

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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. 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



Production Technology of Vegetables and Flowers

Nekesah T. Wafullah

Horticulture is labelled a lucrative agribusiness option. However, it's a long walk to lucrative horticulture markets, due to the many requirements that need to be fulfilled. There are so many options in vegetable and fruit production practices that can be easily carried out in an affordable manner to leap the benefits of the horticultural markets. When an entrepreneur engages these practices properly, the farms sustainability is guaranteed. By articulating the kind of product and target market, this book emphasizes the use of integrated pest, disease and weed management to ensure profitability and sustainability of a horticultural farm. This book looks at horticulture production in light of climate change, policy requirement and food security issues that may affect availability of different markets and market strategies. Compliance with Good Agricultural Practices (GAPs) is important to horticulture management and profitability, thus the need to carefully select acceptable production techniques for the target market.

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About the Author

A skilled agriculture expert with extensive knowledge in project management, agricultural energy, various forms of fertilizer, their production, marketing, application regimes and policies; business development management services; cross border fertilizer trade policies; product registration and efficacy trials and assessment; legume production and marketing aspects; food safety advocacy and policy issues; partnerships in businesses; youth, and women empowerment, and volunteerism. She is adept at project planning and strategic management as well as creating simple solutions to complex problems. As mentorship is one of her key areas, she has dedicated time to journey with high school and college students advocating for better performance in Agricultural sciences. She writes and edits agricultural books and loves watching movies, cooking, baking, networking, reading and dancing during her free time. She is also a food and fashion enthusiast. Nekesah holds an M Sc. Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy



Crop Pests and Stored Grain Pests and their Management

Nekesah T. Wafullah

Many professional pest control operators have a tendency to market chemical pesticide to farmers as a sure way of pest control. Chemical pesticides do little to help in the farm future profitability, sustainability and ecosystem. However, there are pest management methods that are less costly, Environmentally friendly and more sustainable. These pest management strategies when well used can promote the future growth of the farm and the image of the farm locally and globally, as discussed in this book. This book walks the audience through the different methods to safely and humanely control pest whether mammals, birds or insect. By focusing on the identification, quantification, specification of control possibilities and proper application and monitoring and evaluation of pest, this book help in avoiding mis-identification which equals to mis-management. The book provides a wholistic approach to crop pest control that will reserve the welfare of the laborers and the pest ecosystem.

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About the Author

A skilled agriculture expert with extensive knowledge in project management, agricultural energy, various forms of fertilizer, their production, marketing, application regimes and policies; business development management services; cross border fertilizer trade policies; product registration and efficacy trials and assessment; legume production and marketing aspects; food safety advocacy and policy issues; partnerships in businesses; youth, and women empowerment, and volunteerism. She is adept at project planning and strategic management as well as creating simple solutions to complex problems. As mentorship is one of her key areas, she has dedicated time to journey with high school and college students advocating for better performance in Agricultural sciences. She writes and edits agricultural books and loves watching movies, cooking, baking, networking, reading and dancing during her free time. She is also a food and fashion enthusiast. Nekesah holds an M Sc. Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy



Production Technology of Spices and Herbs and their Benefits

Nekesah T. Wafullah

All those spices and herbs in your spice rack can do more than provide calorie-free, natural flavourings to enhance and make food delicious. Spices and herbs provide a variety of health benefits depending on how they are produced, prepared and taken. This book outlines some established health benefits of more than 50 different herbs and spices. It also describes the production of the spices and handling procedures that ensures maximum benefits. In the use of herbs and spices and herbs in food and health benefits, different community are oriented towards some herbs and spices combinations. This book outline how different regions in the world utilizes herbs and spices in food flavouring. Despite the health benefit of the herbs and spices, its crucial also to take precaution especially for pregnant women and people with allergies.

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About the Author

A skilled agriculture expert with extensive knowledge in project management, agricultural energy, various forms of fertilizer, their production, marketing, application regimes and policies; business development management services; cross border fertilizer trade policies; product registration and efficacy trials and assessment; legume production and marketing aspects; food safety advocacy and policy issues; partnerships in businesses; youth, and women empowerment, and volunteerism. She is adept at project planning and strategic management as well as creating simple solutions to complex problems. As mentorship is one of her key areas, she has dedicated time to journey with high school and college students advocating for better performance in Agricultural sciences. She writes and edits agricultural books and loves watching movies, cooking, baking, networking, reading and dancing during her free time. She is also a food and fashion enthusiast. Nekesah holds an M Sc. Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy



Handbook of Agricultural Entomology

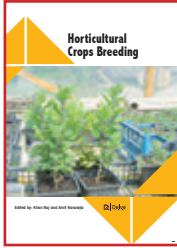
Laichattiar Mukesh Anandrao

The book on Agricultural Entomology is a revolutionary publication for researchers and students entomology. It can be conveniently used as a ready reference and as a broad-spectrum textbook. First five chapters of the book introduce the audience with fundamental concepts of entomology, features of insects, classification of insects and impacts of environmental conditions on insects and vice-versa. Last three chapters of the book deal with plant disease transmission by insects and integrated pest management techniques. Insect pests are causing in a severe economic loss to essential crops globally. However, the control of insect pests has made a key contribution to IPM (integrated pest management) in the world. This book is aimed at presenting the fundamental knowledge about Agricultural Entomology in a simple manner. The text essentially covers the main conceptual paradigms in agricultural entomology which include Economic significance of insects, morphological function and structures, development and growth, behavior and ecology, social insects, feeding habits, beneficial insects, post-harvest losses of grain, classification of insects, integrated pest management (IPM) and practical applications of IPM. This book provides a comprehensive analysis of insects and their impacts on environment and human health. The detailed discussion about different classes of insects and their characteristics is also presented in the book. Pest management techniques are also outlined in the book to provide beneficial information to farmers and land owners. This book is intended for general audience but can be effectively used by readers from agricultural and pest management backgrounds.

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About the Editor

Dr. Mukesh Laichattiar, Ph. D (Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P.) is presently working as Assistant Professor at College of Agriculture, Parul University, Vadodara. Dr. Laichattiar worked as Assistant Professor at college of Agriculture, Naigaon (Bz.), Nanded M.S. (2018-2019). He did his B.Sc (Ag.) From College of Agriculture, Ambajogai (Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, M.S.) and M.Sc (Ag.) from Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P., He was awarded UGC fellowship for his Ph. D research. He qualified ICAR-NET in 2013. Dr. Laichattiar is a recipient of Best Poster presentation award in 2014. He Published 18 research article, 7 book chapters/proceedings, 5 popular articles and 15 abstract.



Horticultural Crops Breeding

Kiran Raj and Amit Kanawjia

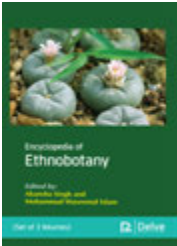
'Horticultural Crops Breeding' as a book takes the readers through the various aspects of horticulture, emphasizing on the kinds of breeding methods that are taken up in the field. These breeding methods vary according to the crop and are important to be known to the farmers or the agriculturists that deal with the subject of crop breeding. The book also explains in which the breeding methods have improved and can be further enhanced to have better yield – both in terms of quantity as well as quality.

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About the Editors

Dr. Kiran received her education at the universities in Bangalore (B.Sc. Biotechnology), Allahabad (M.Sc. Ag.) and CSKHPKV, Palampur (Ph.D. Plant Breeding and Genetics.) She has throughout a brilliant academic record. She worked at G.B. Pant University of Agriculture and Technology, Pantnagar and GKU, 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 also voluntarily worked as a coordinator, society for social development, as a community development trainer, Rajpur and as a public support executive, Navjeevan foundation, Kangra HP, India

Dr. Amit Kanawjia, did his B.Sc. (Ag.) from AAIDU, Allahabad and M.Sc. (Ag.) Horticulture for IAS, BHU, Varanasi. Dr. Kanawjia completed his Ph. D. (Horticulture) from SHIATS, Allahabad. He has more than 6 years experience in teaching and research. He has supervised 15 students for M.Sc. (Ag.) Horticulture dissertations in the area of fruits, vegetables and flowers as a Chairman and member of advisory committee. Besides, he qualified JRF conducted by ICAR, New Delhi for M.Sc. (Ag.). He organized National Conference and Workshops, as an Organizing Secretary. He has published more than 30 research papers, articles and book chapters in Journals and Magazines of International repute. He is life member of Indian Society of Vegetable Sciences and Organic Agriculture Society of India. Presently Dr Kanawjia is working as Subject Matter Specialist (Horticulture) in Krishi Vigyan Kendra, Jalaun administered by Banda University of Agriculture and Technology, Banda, India.



Encyclopedia of Ethnobotany (set of 3 volumes)

Akansha Singh and Mohammad Waseemul Islam

The encyclopedia of ethnobotany discusses ethnobotanical knowledge of both wild and tamed species, rooted in observations, relationships, needs, and traditional forms of knowledge. The encyclopedia remarks that ethnobotany comes from two words: I) Ethno (meaning "ethnic") referring to people, culture, and collective of beliefs, aesthetics, knowledge, language, and practice, and II) Botany, which is about plants research, from the smallest fern or grass blade to the tallest and oldest tree. Botany covers both wild plant and domesticated species. Domesticated animals are species chosen by humans from wild plant species over time, and then domesticated and trained to best produce: food, fiber, medicine, materials, etc. Domesticated plant species are the subject and purpose of agriculture. This encyclopedia mentions that ethnobotanical knowledge develops over time and is thus always adapting and adding new discoveries, creativity and methods. The encyclopedia also discusses the influence of modern human society on traditional culture and nature's habitats, which has caused loss of specific species and severely damaged communities of bio species (flora, fauna and fungi). It states that displaced or scattered people (who may have experienced multiple generations of observations or customs through oral transmission), eventually lose their ethnobotanical knowledge. But sometimes, as people move around, new relationships with their environment will develop, which creates new or improved ethnobotanical knowledge.

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About the Editors

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.

Dr. Waseem's professional expertise lies in teaching and pre-clinical research on indigenous medicinal plants. He is the Former Director of Complementary Medicine Unit, Chairman of Ethical Committee and Head of the Research Group, at Ajman University, UAE. Dr. Waseem has worked for phytochemical, pharmacological and nutritional values of medicinal plants, is actively engaged in the preparation of the tentative plan of nutrition courses for Ajman University, and presented the importance of plant nutrition for sustainable development for global health. Dr. Waseem has over 100 research publications and presentations on phytoconstituents, pharmacology & toxicology of medicinal plants & herbal products. His professional record demonstrates enriched association with renowned educational institutions, namely, College of Medicine, University of Erbil, Iraq; College of Pharmacy, King Saud University, Riyadh, Saudi Arabia; Health Authority, Abu Dhabi, UAE; Dubai Medical College for Girls, Dubai, UAE and Ajman University, College of Pharmacy and Health Sciences, Ajman and UAE. Dr. Waseem has been actively involved in executing several scientific projects, co-authored the Encyclopedia of Medicinal Plants of UAE, published by Zayed Complex for Herbal Research and Traditional Medicine, printed in Al-Omera Printing and Publishing Co., Abu Dhabi, UAE. He was a reviewer for the International Journals and served as Chairman and Co-chairman at the conferences of phytomedicines and food derived from plants, selected by World Health Organization (WHO) as an advisor for Eastern Mediterranean Region in 2003. He has previously served as Head of the Department, supervising research projects & managing research team in Zayed Complex for Herbal Research and Traditional Medicine, Abu Dhabi, UAE. He has carried out research on medicinal, aromatic and poisonous plants in the College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. He also taught and carried out several research projects in Dubai Medical College, affiliated with the Central Biomedical Research Laboratories as Executive Consultant & Research Manager. He was awarded a plaque of appreciation for his significant contribution to the success of WHO Consultation on Quality Control of Herbal Medicine, Abu Dhabi, UAE and a shield from General Authority for Health Services for the Emirate of Abu Dhabi, UAE. He has been honored in recognition of his devotion, sincerity and his contributions in the fields of research and other academic activities from the College of Pharmacy, King Saud University, Riyadh. A commemorative ceremony to celebrate the scientific achievements of Dr. Waseem was held in the academic year 2013-14 on his excellence in research contribution, at College of Pharmacy and Health Sciences, Ajman University, UAE organized by the College of Pharmacy & Health Sciences.



Agricultural Wastewater Treatment

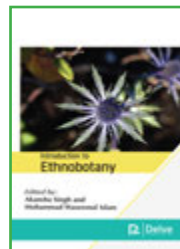
Akansha Singh

Solid or water wastes are resources from which monetary values can be derived. Food and agriculture industry hold enormous economic potential in the form of agricultural wastes. During the last few decades, world has become more aware of the consequences of environmental pollution and its impacts on human life. We have also witnessed public awareness of environmental influence of wastewater discharge. Therefore, the treatment and reuse of agricultural wastewater is essential to harness the true potential of agricultural waste. Irrigated agriculture yields 33% of the world's crop products and 50% return from world-wide crop production. However, in numerous areas of the world, particularly in arid and semiarid regions the future of irrigation based agriculture is endangered by existing or projected freshwater shortages. These water shortages essentially result from the ever-growing demand of water by rapidly growing global population and their elegant lifestyle. Water reuse (recycling), wastewater treatment and the utilization of treated sewage effluents for industry agriculture, and non-potable environmental and urban applications can offer a highly efficacious and sustainable approach to exploit water resources in regions afflicted by water shortage. This book consists of 8 chapters. All the chapters focus on modern methods and techniques regarding reuse and treatment of agricultural wastewaters.

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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.



Vol 1: Introduction to Ethnobotany

Akansha Singh and Mohammad Waseemul Islam

The book "Introduction to Ethnobotany" discusses how indigenous people use plants for food, medicine, cultural customs, housing, fuel, and transportation. It discusses the evolution of ethnobotany and the formation of this field over the years. Ethnobotany is described as the study of the connection between people in their indigenous societies and their plant ecosystem. This book aims to study culturally based biological and environmental understanding, cultural perception and perception of the natural world, including related behaviors and activities. It also mentions the naming and classification process of plants by community members, and points out that different communities may use the same plants in different ways.

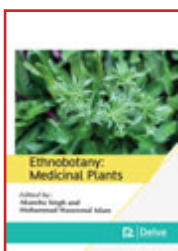
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About the Editors

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.

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Vol 2: Ethnobotany: Medicinal Plants

Akansha Singh and Mohammad Waseemul Islam

This book provides ethnobotanical data about the traditional uses of medicinal plants across the world. This book aims to analyze and evaluate the use of medicinal crops among different groups of people. The book mentions that medicinal plants can be used to treat various diseases, especially respiratory diseases and skin diseases. It discusses the importance of traditional usage of plants to treat and prevent some common and certain rare diseases. There are also medicinal uses of some local plant taxa reported. The book mentions that medicinal plants represent natural remedies for various diseases in indigenous communities. Phytotherapy still maintains an important role in the treatment of ailments in many areas.

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About the Editors

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.

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Biological Control of Insects, Pests and Diseases

Hazem Shawky Fouda

Biological Control of Insects, Pests and Diseases introduces the readers to the concept of biological control and further explains them the process done in association with nematodes, fungi and bacteria. The book also throws light on the allelochemicals. Also discussed in the book is the information related to the biocontrol of insects and diseases, further explaining the readers about the advantages of biocontrol, its future in the developing world and the incorporation of nanotechnology to improve the working in the field of biocontrol.

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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 is working in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till present. 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 present he works as an inspector.



Vol 3: Ethnobotanical Analysis of Wild Food Plants Traditionally Collected and Consumed

Akansha Singh and Mohammad Waseemul Islam

This book provides a quantitative study on the ecological characteristics and seasonal aggregation of wild edible plants in man-made ecosystems; in addition, it discusses systematic research on the seasonal effects of these edible plants on households. This book seeks to establish a theoretical and analytical

framework to promote the understanding of growers' collection of wild edible plants, and to obtain empirical evidence about the spatial and cyclical complementarity of man-made ecosystems and subsystems and their impact on food security. The book's findings also reveal that the communities of wild edible plant species are unique in each subsystem and season. Therefore, all subsystems that provide different habitats from land to aquatic organisms are important to ensure the diversity of wild edible plants.

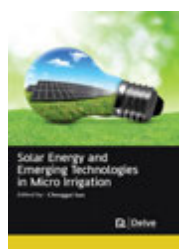
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About the Editors

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.

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Solar Energy and Emerging Technologies in Micro Irrigation

Chenggui Sun

Solar Energy and Emerging Technologies in Micro Irrigation discusses the emergence of certain technologies in the field of micro irrigation. It further comprises a framework for the assessment of sustainability of irrigated agricultural system and the application of solar water pump technology amongst the rural farmers. This book also discusses about a comprehensive sizing methodology for stand-alone battery-less photovoltaic water pumping system under the Egyptian climate, feasibility of solar pump for sustainable irrigation in Bangladesh, a hybrid pv/utility powered irrigation water pumping system for rural agricultural areas, performance evaluation of gypsum block wireless sensor network system for real time irrigation scheduling, assessing the economic impact of a low-cost water-saving irrigation technology in Indian Punjab, comparison of traditional and modern deficit irrigation techniques in corn cultivation using treated municipal wastewater, comparative effects of saline water on yield and quality of potato under drip and furrow irrigation, effects of deficit irrigation on yield, water productivity and economic return of sunflower and optimum irrigation water allocation and crop distribution using combined pareto multi-objective differential evolution.

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About the Editor

Dr. Chenggui Sun obtained his Ph.D. degree in Chemical Engineering from the University of Waterloo, a public research university with a main campus in Waterloo, Ontario, Canada. His academic background is in the area of nanotechnology and membrane technology, which is at the interface between Chemical Engineering and Environmental Engineering. Dr. Sun enjoys the challenge of combining technology, engineering, and business expertise to contribute to organizational development in the context of a more sustainable, healthier world. He has proven ability to understand client needs and perspectives in order to formulate and implement strategic plans, and known networking and collaboration skills with a commitment to fostering growth in others. Dr. Sun is also reputable for approaching tasks with creativity, integrity, and drive to inspire cooperation and exceed expectations.



Biochemical Interaction Between Plants and Insects

Rajesh Singh

Biochemical interaction between plants and insects discusses about biochemical interaction between plants and insects in a simple yet detailed manner. This book comprises topics such as beneficial insect to plants, the importance of insects in plants pollination process, harmful insect pests of the plants and insect pests that attack specific food crop plants. This book basically explains how plants and insects intervene in a detailed way.

Different common beneficial insects are also discussed. Insect and pests that attack specific cash crops, biological association between root-knot nematode species and tubers, process of insects locating their host plants, plant species and their essential oils on some storage insect and pests, impacts of climate change on biological and ecological interaction between insects and plants are some of the topics which are also discussed in this book.

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About the Author

Rajesh Singh is presently working as Professional Senior (Deputy Librarian) Electronic Resources & Training Division, University of Delhi, Delhi. A Gold Medalist from Banaras Hindu University, Varanasi, he has served Indian School of Mines, Dhanbad, MJP Rohilkhand University, Bareilly, and Dr. RML Avadh University, Faizabad, before moving to University of Delhi. He has also designed "Subject Portal" to help new entrants to the university. He is a prolific author and has around three dozens of papers to his credit.



Information Technology in Agriculture

Hazem Shawky Fouda

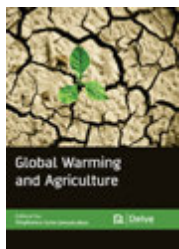
Information Technology in Agriculture is a book which introduces the global perspective of the agriculture which includes the history, types, farming and implications for management of agroecosystems. This book aims to discuss about the concept and general overview of information technology and agricultural engineering. In the first half of this book, the concept of global positioning systems and the and the concept of the geographical information systems considering the agriculture have been discussed. E-commerce and E-marketing are being used for the agricultural products and this is further highlighted by this book. In the second half, it discusses the participation of women in agriculture and the impact that information technology has on the agricultural sector and the future of technology that will be used in the sector of 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 is working in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till present. 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 present he works as an inspector.



Global Warming and Agriculture

Stephanya Lynn Jonas-Labee

Global Warming and Agriculture deals with the phenomenon of global warming and the relationship between global warming and agricultural crop farming and the impact of global warming on the agricultural crops. This book also discusses about global warming and livestock farming, relationship between impacts of global warming and various agricultural pests and diseases, economic importance of irrigation in agricultural sector with reference to global warming, man's response to the impact of

global warming and global environmental policy and management to deal with impacts of global warming.

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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.



Cloning in Plants: New Developments

Shiv Sanjeevi and Prerna Pandey

Cloning in Plants: New Developments takes into account the process of cloning and plant transformation. It comprises the tools required for cloning and the basic requirement of cloning, cloning and transformation of medicinal plants has also been described. It provides the reader with the fundamental concept of cloning and plant transformation so as to understand the techniques involved in the process of cloning and to learn the concept, features and development of energy cane. This book also

discusses about techniques used for vitro cloning of small RNAs, a versatile and simple enzyme-free cloning approach of aqua cloning, virus-induced gene silencing, concept, development and characteristics of energy cane and the concept of IRDL cloning.

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About the Editors

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E. coli & M. smegmatis. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunossays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, has worked as a senior research fellow 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, as well as gene silencing using the RNA interference technology. She has published papers in peer-reviewed journals in the field and has a submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. Prerna has also completed her editing and proof-reading courses from SIEP, UK and now works as a freelance scientific editor, writer and a subject matter expert. She has edited and co-authored several books on a range of topics in Life-Sciences. When Prerna is not busy with her assignments, she loves visiting historical places.



Greenhouse Pest Management

Laichattiwat Mukesh Anand Rao

Greenhouse Pest Management informs the readers about the various greenhouses and the several kinds of pests that are found in the ecosystem. It also informs the readers about the various viral diseases and the ones that are caused by bacterial and fungal actions. It provides readers a gist of the various factors related to the greenhouses and the pest management in these places, so that they can have a deep understanding of the subject. This book also discusses about the role of nematodes, the field of

epidemiology, the process of sampling, the process of monitoring, the function of sanitation and the use of pesticides, the management of greenhouse and common crops for greenhouse and the process of pest management.

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About the Editor

Dr. Mukesh Laichattiwat, Ph. D (Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P.) is presently working as Assistant Professor at College of Agriculture, Parul University, Vadodara. Dr. Laichattiwat worked as Assistant Professor at college of Agriculture, Naigaon (Bz.), Nanded M.S. (2018-2019). He did his B.Sc (Ag.) From College of Agriculture, Ambajogai (Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani, M.S.) and M.Sc (Ag.) from Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P., He was awarded UGC fellowship for his Ph. D research. He qualified ICAR-NET in 2013. Dr. Laichattiwat is a recipient of Best Poster presentation award in 2014. He Published 18 research article, 7 book chapters/proceedings, 5 popular articles and 15 abstract.



Forest Nutrition Management

Quan Cui

Forest Nutrition Management examines the evaluation of forest nutrition and their management. It also includes forest ecosystem services derived by smallholder farmers in northwestern Madagascar and the change of soil carbon stock due to edge effects in central amazon forest fragments. This book also discussed about The Impact of Forest Management Plans on Trees and Carbon: Modeling A Decade of Harvesting Data in Cameroon, Modeling Micro-Scale Ecological Processes and Emergent

Patterns of Mountain Pine Beetle Epidemics, Lidar-Based Estimation of Bole Biomass For Precision Management of An Amazonian Forest, Sources and Types of Uncertainties in the Information On Forest-Related Ecosystem Services and Capturing Complexity: Forests, Decision-Making and Climate Change Mitigation Action.

Copyright 2020 | HB 9781774072233 | Price: \$160

About the Editor

Quan Cui obtained her PhD from Beijing Normal University in 2015. She worked as environmental impact assessment engineer for years. Aiming at linking science to policy, her study interest spans from ecosystem modelling to water resources management. She published peer-reviewed articles about using machine learning models in inflow forecasting, CO2 management and watershed ecosystem health assessment.



Sustainable Food Systems

Sara Diana Garduno Diaz

Sustainable Food Systems provides the readers with the insights on the various kinds of food systems that need to be taken up to ensure sustainability in the kind of food consumed by the people across the globe and the importance of sustainability in such a subject. It provides readers the necessary information on the food systems and the sustainability in these systems that is needed in the future to ensure food security for all. This book also discusses about the concept of food security, the meaning of food systems, the impact of food production on the environment, the food processing procedure, the challenges in food sustainability and waste generated in food industry.

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About the Author

Dr. 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. Sara has worked as Research Fellow for several EU-funded research projects and was awarded research grants from CONACYT (Mexico) and the BBSRC (UK). She is currently Senior Nutrition Consultant at Your Choice Nutrition in Kuwait, where she has been working on functional nutrition and wellness since 2014.



Agriculture and Industrial Development

Nekesah T. Wafullah

Agriculture and Industrial Development discusses the basic concept of agriculture, crop farming and livestock farming. It includes different types of agricultural industries and the importance of industrial revolution in the field of agriculture. This book also discusses about development of agriculture in the rural areas, role of agricultural cooperatives, agricultural entrepreneurship and technologies in agricultural industry development and relationship of industrial development in the urban centers to the resource hinterland. It provides the reader with insights of agriculture associated with the industrial development so as to better understand the importance of industrial revolution in the field of agriculture and the role of advance technologies in the development of agricultural industries.

Copyright 2020 | HB 9781774072387 | Price: \$160

About the Author

Nekesah T. Wafullah, M.Sc. Agricultural and Applied Economics from the University of Nairobi, Kenya, is skilled agriculture expert with extensive knowledge in 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 has experience in agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)—Bukavu and Lubumbashi, and Uganda.



Food Processing, Biochemistry and Agriculture

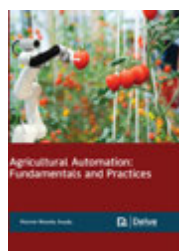
Sara Diana Garduno Diaz

Food Processing, Biochemistry and Agriculture discusses the basics of the food processing industry such as the importance and history of the food processing sector. The role of agriculture in production of food, basic principles of the food processing industry, production and processing of food crops have been elucidated. The production and processing of dry cereals, legumes, livestock products, soft and natural beverages were explained in this book. The factors that can affect the food processing industry and the emerging issues in the food processing and production are discussed in this book.

Copyright 2020 | HB 9781774072400 | Price: \$160

About the Author

Dr. 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. Sara has worked as Research Fellow for several EU-funded research projects and was awarded research grants from CONACYT (Mexico) and the BBSRC (UK). She is currently Senior Nutrition Consultant at Your Choice Nutrition in Kuwait, where she has been working on functional nutrition and wellness since 2014.



Agricultural Automation: Fundamentals and Practices

Hazem Shawky Fouda

Agricultural Automation Fundamentals and Practices throws light on the meaning of agricultural automation, detailing the readers on the factors that affect the employment of agricultural automation in the field. It throws light on the technological inputs in the agriculture sector. Also discussed in the book are computerization of agricultural information, types of agricultural mechanism, transportation in agriculture, automation of the irrigation systems in agricultural sector, use of solar energy in this field, the application of agricultural pesticides and the role of women in the automation of agriculture, which provide the readers with the insights on various aspects related to the agricultural automation.

Copyright 2020 | HB 9781774072370 | Price: \$160

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 is working in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till present. 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 present he works as an inspector.



Climate Conditions and Agriculture

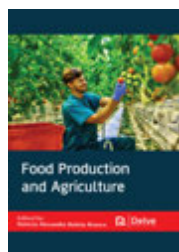
Hazem Shawky Fouda

Climate Conditions and Agriculture highlights the various climate conditions such as drought and its relation with the agriculture. This book aims to discuss the impact of soil moisture on agricultural crops production, the climate impact on growth and effectiveness and survival of rhizobium leguminous agricultural crops and dairy and beef cattle farming and climate change. In the first half of the book, description regarding dependence of rainfall in planning and management of agricultural lands has been provided. In the second half of the book, the insights related to the quality water supply in agricultural arid and semi-arid lands, food security due to climate change and agricultural development and solutions for coping with the shortages of agricultural foods due to climate change, have been provided to the reader. In the last, discussions related to environmental management and deforestation with respect to climate change have been provided to the reader.

Copyright 2020 | HB 9781774072394 | Price: \$160

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 is working in Cotton Arbitration & Testing General Organization (CATGO) since 1999 till present. 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 present he works as an inspector.



Food Production and Agriculture

Patrícia Alexandra Batista Branco

Food Production And Agriculture provides the readers with the basic information on the processes of food production and the role of agriculture in it. It also talks about the factors that affect the agricultural food production and the relationship between the economic growth and food production. It provides the readers with deep insights into the various aspects related to the agriculture and the food production related to it for a deep understanding of the subject. This book also discusses about the animals used in agriculture and their production, the food crops that are generally used in agriculture and their production, the role played by water in irrigation and the nitrogen fertilizers in agricultural food production, the various effects of environmental factors and the role and significance of women in agriculture.

Copyright 2020 | HB 9781774072417 | Price: \$160

About the Editor

Patrícia Alexandra Batista Branco has received her PhD in Food Engineering from Higher Institute of Agronomy, Lisbon, Portugal and Masters' in Molecular Biology in Health from Egas Moniz School of Health, Portugal. She is an active researcher with many years of experience and has published research papers with reputed journals.



Advancement in Soil Microbiology

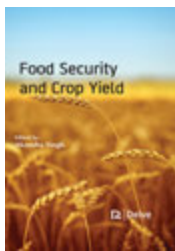
Preethi Kartan

Advancements in Soil Microbiology is a book which focuses on the concept of microbiology and thus, provides a general perspective about the soil microbiology. A general description of the soil and soil microorganisms have been provided in the first half of this book. This book provides description about the advanced techniques that are used in soil microbiology, the relation in between soil microbiology and biochemistry and nitrogen transformation and nitrogen fixation. The insights about the concept of sustainable crop production in context of soil microbiology have been provided to the readers with the help of this book. In the second half, it discusses the current issues and the trends and future aspects of the soil microbiology.

Copyright 2020 | HB 9781774072820 | Price: \$160

About the Author

Preethi is a postgraduate in Biotechnology from University of Leeds, UK. She is currently working as a Scientific Associate at one of the CRO's in India and her interest lie in life sciences related writing.



Food Security and Crop Yield

Akansha Singh

Food Security and Crop Yield is a book that discusses about the global perspective of the food security. This book aims to discuss about the increasing yield and improving resource use efficiency, sustainability of crop production in relation with food security and global perspective about the changing climate and food security. Description regarding the food security risk assessment, genetically modified crops, plant breeding and crop management and sustainable development have been highlighted in this book. This book provides insights to the readers about the role of innovations in meeting food security challenges and the future of food demand worldwide including why food security is needed in the upcoming years.

Copyright 2020 | HB 9781774072868 | Price: \$160

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 Biomed 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.



Pest Control for Sustainable Agriculture

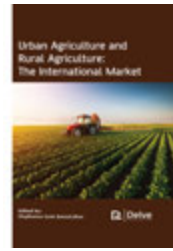
Chenggui Sun

Pest Control for Sustainable Agriculture talks about the control of pests for the attainment of sustainable agriculture. It further comprises the use of bio-pesticides as sustainable solutions for management of pests in legume crops and stimulation of plant growth and biocontrol by bacillus amyloliquefaciens. This book also discusses about arachidonic acid as an elicitor of the plant defense response to phyto-pathogens, microbial diversity of vermi-compost bacteria that exhibit useful agricultural traits and waste management potential, impacts of glyphosate-based herbicides on disease resistance and health of crops, recent progress on the genetics and molecular breeding of brown plant hopper resistance in rice, fungal and bacterial nematocides in integrated nematode management strategies, natural enemies associated with some economic pests in egyptian agro-ecosystems, biocontrol of wilt-nematode complex infecting gerbera by bacillus subtilis under protected cultivation, effect of melia azedarach (sapindales: meliaceae) fruit extracts on citrus leaf miner phyllocnistis citrella (lepidoptera: gracillariidae), effectiveness of different entomopathogenic nematode species against the variegated cutworm, peridroma saucia (hubner) (lepidoptera: noctuidae), potential impact of host pest fed on bt-modified corn on the development of chrysoperla carnea (stephens) (neuroptera: chrysopidae).

Copyright 2020 | HB 9781774073476 | Price: \$160

About the Editor

Dr. Chenggui Sun obtained his Ph.D. degree in Chemical Engineering from the University of Waterloo, a public research university with a main campus in Waterloo, Ontario, Canada. His academic background is in the area of nanotechnology and membrane technology, which is at the interface between Chemical Engineering and Environmental Engineering. Dr. Sun enjoys the challenge of combining technology, engineering, and business expertise to contribute to organizational development in the context of a more sustainable, healthier world. He has proven ability to understand client needs and perspectives in order to formulate and implement strategic plans, and known networking and collaboration skills with a commitment to fostering growth in others. Dr. Sun is also reputable for approaching tasks with creativity, integrity, and drive to inspire cooperation and exceed expectations.



Urban Agriculture and Rural Agriculture: The International Market

Stephanya Lynn JonasLabee

Urban Agriculture and Rural Agriculture gives an introduction to the urban and rural forms of agriculture. It views the ideas of rural agricultural development in the historical perspective and the ways in which the urban agricultural development is transforming the human capital. Also discussed in the book is the agricultural planning and technology in urban and rural development, the effects of globalization on world agricultural trade, the risks involved in urban and rural agriculture and the future of urban agriculture and rural agriculture. These provide a deep insight into both the kinds of agriculture and related aspects.

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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.



Antibiosis and Antibiotics in Agriculture

Preethi Kartan

Antibiosis and Antibiotics in Agriculture takes into account the process of antibiosis and the significance of antibiotics in the field of agriculture. It includes the vital role of lysozyme in improving the bactericidal effect and chitosan in plant protection. This book also discusses about mining of potential drug targets through the identification of essential and analogous enzymes in the genomes of pathogens of glycine max, zea mays and solanum lycopersicum, fusion proteins towards fungi and bacteria in plant protection, antibiotics in agriculture and the risk to human health, antibiotic use in agriculture and its consequential resistance in environmental sources, antibiotics impact plant traits, even at small concentrations, microbial inoculants for improving crop quality and human health in Africa and plant root-microbe communication in shaping root microbiomes.

Copyright 2020 | HB 9781774072844 | Price: \$160

About the Editor

Preethi is a postgraduate in Biotechnology from University of Leeds, UK. She is currently working as a Scientific Associate at one of the CRO's in India and her interest lie in life sciences related writing.



Organic and Conventional Agriculture

Akansha Singh

Organic and Conventional Agriculture takes into account the modern concept of organic agriculture as an alternative to the conventional agriculture. It also includes the global development of organic agriculture. It provides the reader with the insights into the evolution of organic agriculture in order to recognize the significance of organic agriculture over the conventional agriculture and to understand the impact of organic agriculture on global food security. This book also discusses about Demand For Organic Products In Urban Areas, Sustainable Practices related to Organic and Conventional Agriculture, Impact of Organic Agriculture on Food Security and Future Perspective of Agriculture: Organic and Conventional Agriculture.

Copyright 2020 | HB 9781774072875 | Price: \$160

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 Biomed 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.



Ensuring Global Food Safety: Exploring Global Harmonization

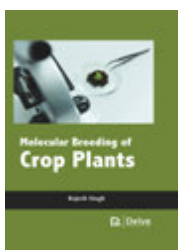
Oliva DSouza

Ensuring Global Food Safety: Exploring Global Harmonization discusses the importance of food security, important global food security issues and emerging issues in food safety. The food production systems, global food security and supply chain are elucidated in this book. The importance of biotechnology and its impact on food security are discussed in this book along with the strategies for global food security. The policies, trends and challenges in food security and the future of the global food security have been described in this book. This book provides with detailed insights into several aspects related to global food security.

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About the Editor

Dr. Oliva DSouza is a dental surgeon with post-graduate diplomas in medical administration and medical tourism. She has completed multiple certifications in Six Sigma, 5-S, public health, organizational development and people skills. Having honed her clinical skills at the Armed Forces Institute of Dental Sciences, she practiced at various private and corporate hospitals for 15 plus years, before moving on to pursuing her passion for writing, editing and academic research. She has a keen interest in research, data analysis and the application of artificial intelligence in healthcare. She freelances as a technical and academic consultant/editor for many websites, blogs and dental product companies. She has completed the women's entrepreneurship program from Indian Institute of Management, Bangalore. She serves as a director for a startup in the artificial intelligence area and also runs a business in handcrafted, natural spa products. She enjoys sports and is a voracious reader.



Molecular Breeding of Crop Plants

Rajesh Singh

Molecular Breeding of Plants discusses the various fundamentals of plant breeding with the readers and informs them about the application of genomic tools in the breeding of plant. The book throws light on the advancements in the genomics and the bio-informatics of plant breeding and also introduces the concepts of population genetics to the readers. Also discussed in the book are the methods for developing molecular markers, the introduction to the marker assisted crop improvement, plant transformation methods and identification of mutagenized plant population. These topics give and insight on the breeding of plants at molecular levels for the better understanding of the readers.

Copyright 2020 | HB 9781774073469 | Price: \$160

About the Author

Rajesh Singh is presently working as Professional Senior (Deputy Librarian) Electronic Resources & Training Division, University of Delhi, Delhi. A Gold Medalist from Banaras Hindu University, Varanasi, he has served Indian School of Mines, Dhanbad, MIP Rohilkhand University, Bareilly, and Dr. RML Avadh University, Faizabad, before moving to University of Delhi. He has also designed "Subject Portal" to help new entrants to the university. He is a prolific author and has around three dozens of papers to his credit.



Plant Nutrition and Food Security

Mohammad Waseemul Islam

Plant Nutrition and Food Security gives an introduction to the readers on the subject of food security and its role in the agricultural production and discusses the role of plant nutrients in food security. It further talks about food quality, consumer health, and plant nutrition, mineral nutrition in plants optimization and management of plant nutrition. Also discussed in the book is the process of nutrient acquisition, the dynamics that go on in the agricultural ecosystem regarding the nutrients and the role of plant nutrition in achievement of sustainable development in terms of food. It also provides insights on the future demands for plant nutrients.

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About the Editor

Dr. Waseem's professional expertise lies in teaching and pre-clinical research on indigenous medicinal plants. He is the Former Director of Complementary Medicine Unit, Chairman of Ethical Committee and Head of the Research Group, at Ajman University, UAE. Dr. Waseem has worked for phytochemical, pharmacological and nutritional values of medicinal plants, is actively engaged in the preparation of the tentative plan of nutrition courses for Ajman University, and presented the importance of plant nutrition for sustainable development for global health. Dr. Waseem has over 100 research publications and presentations on phytoconstituents, pharmacology & toxicology of medicinal plants & herbal products. His professional record demonstrates enriched association with renowned educational institutions, namely, College of Medicine, University of Erbil, Iraq; College of Pharmacy, King Saud University, Riyadh, Saudi Arabia; Health Authority, Abu Dhabi, UAE; Dubai Medical College for Girls, Dubai, UAE and Ajman University, College of Pharmacy and Health Sciences, Ajman and UAE. Dr. Waseem has been actively involved in executing several scientific projects, co-authored the Encyclopaedia of Medicinal Plants of UAE, published by Zayed Complex for Herbal Research and Traditional Medicine, printed in Al-Omera Printing and Publishing Co., Abu Dhabi, UAE. He was a reviewer for the International Journals and served as Chairman and Co-chairman at the conferences of phytomedicines and food derived from plants, selected by World Health Organization (WHO) as an advisor for Eastern Mediterranean Region in 2003. He has previously served as Head of the Department, supervising research projects & managing research team in Zayed Complex for Herbal Research and Traditional Medicine, Abu Dhabi, UAE. He has carried out research on medicinal, aromatic and poisonous plants in the College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. He also taught and carried out several research projects in Dubai Medical College, affiliated with the Central Biomedical Research Laboratories as Executive Consultant & Research Manager. He was awarded a plaque of appreciation for his significant contribution to the success of WHO Consultation on Quality Control of Herbal Medicine, Abu Dhabi, UAE and a shield from General Authority for Health Services for the Emirate of Abu Dhabi, UAE. He has been honored in recognition of his devotion, sincerity and his contributions in the fields of research and other academic activities from the College of Pharmacy, King Saud University, Riyadh. A commemorative ceremony to celebrate the scientific achievements of Dr. Waseem was held in the academic year 2013-14 on his excellence in research contribution, at College of Pharmacy and Health Sciences, Ajman University, UAE organized by the College of Pharmacy & Health Sciences.



Veterinary Entomology

Patricia Marques

Veterinary Entomology is the scientific study of arthropods, a branch of zoology, related with Veterinary diseases. In this book starts by the study of Ectoparasites, which include fleas, lice, ticks and other insects and arthropods. Ectoparasites are a taxonomically diverse group of organisms that infest the skin of human beings and other animals. These ectoparasites can infect several animal hosts, including dogs, cats, birds and bats. These arthropods can also be vectors of disease, transmitting bacteria, parasites and viruses. The most important arthropods in Veterinary entomology are mosquitoes, ticks and flies, since they can act as ectoparasites and/or vectors of disease. Thousands of mosquito species feed on the blood of various hosts—vertebrates, including mammals, birds, reptiles, amphibians, and some fish; along with some invertebrates, primarily other arthropods. This loss of blood is seldom of any importance to the host. The mosquito's saliva is transferred to the host during the bite, and can cause an itchy rash. In addition, many species can ingest pathogens while biting, and transmit them to future hosts. In this way, mosquitoes are important vectors of diseases such as malaria, yellow fever, Chikungunya, West Nile, dengue fever, filariasis, Zika and other arboviruses. Ticks also need to ingest blood to complete their live cycle. Ticks are vectors of many diseases that affect humans and other animals. Houseflies, commensal with humans all over the world, spread food-borne illnesses. Flies can be annoyances especially in some parts of the world where they can occur in large numbers, buzzing and settling on the skin or eyes to bite or seek fluids. Larger flies such as tsetse flies and screwworms cause significant economic harm to cattle. Blowfly larvae, known as gentles, and other dipteran larvae, known more generally as maggots, are used as fishing bait and as food for carnivorous animals. They are also used in medicine in debridement to clean wounds. In conclusion, this book will cover several aspects of Veterinary Entomology.

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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



Principles of Animal Growth and Development

Patricia Marques

Principles of Animal Growth and Development makes the readers familiar with the various aspects that are related to the process of growth in the animals and the various kinds of growth in the animals as it takes place in the different body parts and the various forms of growth cells. It provides the basic information on the role of various mechanisms of the body in the growth and development of the various parts in the body. This book also discusses about the development of the several kinds of tissues in the animals, the growth of muscles in the animals, the molecular control of adipogenesis, the factors that affect the composition of adipose tissue and lipid metabolism, the growth of bones and the relationship between the growth, development and the quality of meat in various animals.

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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 Bacteriology

Patricia Marques

Veterinary Bacteriology is the study of bacteria that cause diseases on animals. This book is organized by animal, focusing on small ruminants, big ruminants, pigs, dogs, fish and birds. Specific examples of bacterial infections are discussed for ruminants and pigs. More broad bacterial studies are shown for dogs, fish and birds. In Ovin and Caprine, bacteria can cause Mastitis, Brucellosis and Interdigital phlegmon. Bovine bacterial infections, include Leptospira, Streptococcus, Tuberculosis, Anthrax and respiratory diseases. In pigs, Streptococcus, Actinobacillus, Chlamydia, Corynebacterium and Staphylococcus are common bacterial diseases. Canine Microbiome and campylobacter in canines. Taxonomy of bacteria in fish. Avian bacteriology, focusing in Listeria and Escherichia coli.

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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 Toxicology

Patricia Marques

Veterinary Toxicology informs the readers about the various concepts related to the veterinary field and the ones related to the field of neurotoxicity. The book also explains the subjects such as veterinary immunotoxicity and the radiations in the radioactive materials that affect veterinary. This book also discusses about pesticides, insecticides, rodenticides and herbicides in the veterinary toxicity, the environmental toxicology, the field of therapeutics and the toxicology of diagnostics and genotoxic and cytotoxic effects on the immune cells. It also provides the basic insights on the toxicology of veterinary and the information on the toxicology related to it so that the readers get a deep understanding of the subject.

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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



Animal Venoms: Their Source, Composition, and Uses

Shiv Sanjeevi and Perna Pandey

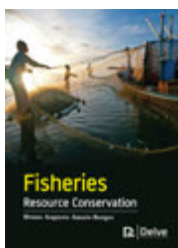
Animal venoms their source, composition, and uses explains the readers about the various sources of venom and informs them about the ways in which animal venom is extracted. The readers are also informed about the various uses of animal venom and the various application related to it. It provides the readers with the required insights on the several applications of venom and explain the importance of venom in treatment of some serious diseases and uses in medicines. This book also discusses about the background on animal toxins and venoms, some new aspects of venom, the latest finding in animal venom, discussion on snake venom, peptide therapy that is based on venom, the various trends in pharmacology and biochemistry, peptides obtained from scorpions and the anticancer effects of the jellyfish venom.

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About the Editors

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in *E. coli* & *M. smegmatis*. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

Dr Perna Pandey, a biotechnologist with several years of wet lab research experience, has worked as a senior research fellow 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, as well as gene silencing using the RNA interference technology. She has published papers in peer-reviewed journals in the field and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. Perna has also completed her editing and proof-reading courses from SIEP, UK and now works as a freelance scientific editor, writer and a subject matter expert. She has edited and co-authored several books on a range of topics in Life-Sciences. When Perna is not busy with her assignments, she loves visiting historical places.



Fisheries Resource Conservation

Bruno Augusto Amato Borges

The book 'Fisheries Resource Conservation' discusses contemporary issues affecting global fish populations. This book describes insufficient conservation measures, jurisdictional disputes and illegal fishing vessels as some of the issues that threaten fish stocks. It stresses that there's an urgent need to adopt sustainable fishing practices, since communities that depend on fishery resources risk having their livelihoods stopped when fish populations are threatened. This book mentions the impact of globalization on local fish stocks, where the influx of external fishing boats into coastal waters has severely affected some countries' ability to fulfill domestic demand for the commodity. People must understand the importance of preserving fish populations if it's to be used as a long-term food resource.

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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.



Market based Fisheries Management

Bruno Augusto Amato Borges

The book 'Market-Based Fisheries Management' takes the readers through the various aspects of the fisheries management. It takes the readers through the management techniques that are guided by the demands in the market and the ones that are necessary to keep the fisheries stalk in the market abreast. The book talks about all the processes involved, the benefits of different kinds of techniques and the challenges involved in the processes.

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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.



Seaweeds for Food and Industrial Applications

Bruno Augusto Amato Borges

Seaweeds for Food and Industrial Applications is a book that outlines the relevance of seaweeds in the modern and changing world. It showcases the importance of seaweeds in the eastern and pacific parts of the world, where the seaweeds are used mainly in the form of food followed by their application in other products as well such as in manufacturing oil or other products. The seaweeds are rich in certain kind of proteins and other minerals that are extremely healthy for the human body, which is why they are gaining momentum in their pharmaceutical application as well as cosmetic applications. The book takes the readers through all such applications.

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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.



Fish Population Analysis

Anjanette S. Tadena

Fish Population Analysis is a book that takes the readers through a lot of information on the basics of fish population and informs them about the demographics of fishes and other sea creatures. The book then talks about the existence of fishes and the ways in which the fishes are caught, bred, and grown in a nurtured environment. It takes the readers through the whole process of capturing of fishes for human use and the ways in which they are analyzed for current use and future references. The book also lists down the objectives for conducting fish analysis and its uses and benefits.

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About the Author

Anjanette obtained her degree from the University of the Philippines. She is also working on her Master's Degree in Environmental Science Specializing in Environmental Toxicity. Her fascination outside work are astrophotography and traveling. She is currently working as a Research Fellow at the Bureau of Agriculture and Fisheries Standards - Department of Agriculture, Philippines.



Byproducts from Agriculture and Fisheries: A Journey of Converting Waste to Wealth

Saket Kushwaha

There is a potential to alleviate food scarcity by intelligently using the byproducts from agriculture, livestock and fisheries. Therefore, there is a need to utilize the byproducts from agriculture and sea-food industry while continually cultivating these two industries. There is a wide range of products which can be manufactured using byproducts from agricultural and fishery wastes. The end products manufactured from fishery and agricultural byproducts include bio-fuels, building materials, cosmetics, pharmaceuticals, etc.

This book essentially contains a detailed discussion about environmental friendly approaches to develop value-added products in the domains of food security Internationally recognized author has contributed insightful and engaging chapters on a broad selection of plant and animal byproducts, discouraging the real-world business of by-product retrieval within the dynamic contexts of fluctuating socio-economic distresses. This book can be used as a ready reference for all the readers who intend to get a deep insight into agricultural and fishery byproducts. Moreover, this book is also equipped with fundamental byproduct conversion 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.



Marine Microalgal Ecology

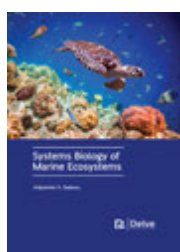
Anjanette S. Tadena

Marine Macroalgal Ecology is a book that take the readers through the ecosystem and living environment of the living organisms in the marine ecology. The book informs the readers about the life activities of these organisms in their whole life span. It also helps to inform the readers about the ways in which the marine macroalgae is bred and grown in a conservative environment so that they can be put to productive usage in the future. The book lists down all the important areas of application of marine macroalgae for readers to know.

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About the Author

Anjanette obtained her degree from the University of the Philippines. She is also working on her Master's Degree in Environmental Science Specializing in Environmental Toxicity. Her fascination outside work are astrophotography and traveling. She is currently working as a Research Fellow at the Bureau of Agriculture and Fisheries Standards - Department of Agriculture, Philippines.



Systems Biology of Marine Ecosystems

Anjanette S. Tadana

Systems Biology of Marine Ecosystems provides the readers with the insights on the main morphological features in the marine ecosystem and informs them about the various marine vertebrates and invertebrates in the ecosystem. This book also discusses about the planktons found in the marine ecosystem, microbes found in the ecosystem, vegetation in marine ecosystem, tourist attraction for the marine environment, the role of climate change and unethical activities by the humans on the marine ecosystem.

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About the Author

Anjanette obtained her degree from the University of the Philippines. She is also working on her Master's Degree in Environmental Science Specializing in Environmental Toxicity. Her fascination outside work are astrophotography and traveling. She is currently working as a Research Fellow at the Bureau of Agriculture and Fisheries Standards - Department of Agriculture, Philippines.



Fish and Wildlife Ecology and Biology

Anjanette S. Tadana

Fish and Wildlife Ecology and Biology talks about the wildlife biology and ecology of fish. It further includes the biological and ecological analysis of certain species of fish, impact of water quality on ecology of fish and economic feasibility of fishery in a specific nation. This book also discussed about Ecological and Biological Behaviors of Large Wildlife Herbivores, Major Natural Habitats of Wildlife and Their Conservation Measures, Conflicts Between Human Beings and Wildlife Animals, Common Diseases and Pests That Influence the Ecological and Biological

Existence of Wildlife Animals and Impact of Climate Change and Environmental Degradation on Wildlife Habitats.

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About the Author

Anjanette obtained her degree from the University of the Philippines. She is also working on her Master's Degree in Environmental Science Specializing in Environmental Toxicity. Her fascination outside work are astrophotography and traveling. She is currently working as a Research Fellow at the Bureau of Agriculture and Fisheries Standards - Department of Agriculture, Philippines.



Role of Fisheries in Rural Development

Sushma Nigam

Role of Fisheries in Rural Development introduces the field of fisheries to the readers and throws light on the concept of rural development simultaneously. The book talks about the management of fisheries and the ecosystem approaches to it, followed by the socio-economic impacts of the fisheries development. The book emphasizes on the possibility of poverty reduction by employing fisheries and further talks about ensuring food security

in the rural areas. Also discussed in the book is the implication of climate change on fisheries, the impact fisheries have on the livelihood of rural communities, the application of advanced technologies in fisheries and the future of fisheries, by discussing the various opportunities and challenges in the field.

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About the Author

Dr Sushma Nigam is Msc, PhD (Fisheries). She is retired Regional Manager (MP Fisheries Department) (1979 – 2017), Bhopal, Madhya Pradesh. She is responsible for the development and conservation of fisheries in the state. She also helped in setting up fish seed domains and their management, Fish protection, testing and cultivation under Fisheries, Research for promotion, expansion and development of the Fisheries, Development and regulation of fishing methods, Fish marketing and exploitation and Conservation, testing and cultivation of eatable water species.



Marine Science and Coastal Management

Anjanette S. Tadana

Marine Science and Coastal Management examines the field of marine science, physics and chemistry of oceans and the basics of coastal zone management. It includes coastal pressures, methodology and effect-load-sensitivity. It provides the reader with the basic knowledge of marine science and coastal management so as to get better understanding of oceans, coastal pressures, management methods, marine flora and fauna, mangrove productivity and organic matter. This book also discusses about management methods, monitoring coastal environments using GIS and RS, GIS for estuaries, marine flora and fauna, mangrove productivity and organic matter and management information.

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About the Author

Anjanette obtained her degree from the University of the Philippines. She is also working on her Master's Degree in Environmental Science Specializing in Environmental Toxicity. Her fascination outside work are astrophotography and traveling. She is currently working as a Research Fellow at the Bureau of Agriculture and Fisheries Standards - Department of Agriculture, Philippines.



Climate Change Impacts on Fisheries and Aquaculture: A Global Analysis

Bruno Augusto Amato Borges

Climate Change Impacts on Fisheries and Aquaculture: A Global Analysis is a book which provide insights to the reader about the global perspective related to the climate change. this book aims to discuss about the global fish production and marine environment and climate change. In the first half, the book has provided description about the biodiversity and climate change in oceans and impacts of climate changes on fisheries. This book highlights the impact of climate change on marine resources and impact of global warming on fisheries and aquaculture. This book provides information about the management of fisheries and governance challenges in a climate change, climate change adaptations in fisheries and aquaculture and also the agricultural adaptations strategies to climate change.

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About the Author

Bruno Augusto is Aquaculture Engineer from Federal University of Santa Catarina. His focus is on writing projects and development of new technologies in aquaculture. He is currently project service provider, consultant and develops research in the field of Biofloc Technology (BFT) for freshwater fish farming.



Molecular research in Aquaculture

Bruno Augusto Amato Borges

Molecular research in Aquaculture gives an introduction to the readers on aquaculture and discusses the various applications of the microarray. The book explains the readers the convergence of aquaculture and molecular biology and defines the polymerase chain reaction by stating its principles and components. Also discussed in the book is the application of electron microscope in the advanced fisheries research, cryo-microscopy in aquaculture research, the genomics in aquaculture, the role of model organisms in aquaculture research, transgenic fish for aquaculture and the microbial genomics of aquaculture pathogens, to make the readers aware about the various aspects of the research in aquaculture.

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About the Author

Bruno Augusto is Aquaculture Engineer from Federal University of Santa Catarina. His focus is on writing projects and development of new technologies in aquaculture. He is currently project service provider, consultant and develops research in the field of Biofloc Technology (BFT) for freshwater fish farming.



Rural Aquaculture

Bruno Augusto Amato Borges

Rural Aquaculture is a book introducing the concept of rural aquaculture. This book focuses on the integration of the rural aquaculture with the agriculture and the production systems which are used in rural aquaculture. It aims to provide information about the concepts and approaches of aquaculture technologies and business planning and management for small-scale sustainable aquaculture. The impact of rural aquaculture on the livelihood and food security and the application of biotechnology has also been mentioned in the second half of this book. The insights about the social and economic aspects of rural aquaculture, issues and opportunities and the future aspects in rural aquaculture have been provided to the readers with the help of this book.

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About the Author

Bruno Augusto is Aquaculture Engineer from Federal University of Santa Catarina. His focus is on writing projects and development of new technologies in aquaculture. He is currently project service provider, consultant and develops research in the field of Biofloc Technology (BFT) for freshwater fish farming.



Marine Ecosystem: Changing Scenario and Sustainability

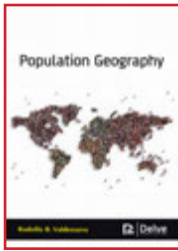
Bruno Augusto Amato Borges

Marine Ecosystem Changing Scenario and Sustainability gives an introduction to marine ecosystem and explains the importance of marine ecosystem to the readers. The book talks about the functioning of the marine ecosystem and lists various dynamic changes in it. Also discussed in the book are the various natural products that are derived from the marine ecosystems, the innovative methods for the restoration of marine ecosystem and the ways in which this part of ecosystem can be managed. The book also provides some insights on the future possibilities of marine ecosystem and the various aspects related to it.

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About the Author

Bruno Augusto is Aquaculture Engineer from Federal University of Santa Catarina. His focus is on writing projects and development of new technologies in aquaculture. He is currently project service provider, consultant and develops research in the field of Biofloc Technology (BFT) for freshwater fish farming.



Population Geography

Rodolfo B. Valdenarro

The book 'population geography' examines how population distribution, organization, characteristics, and growth are correlated with the nature of a particular location. This book covers several topics, such as; population patterns across seven continents, factor that influence population distribution trends, and the relationship/connection between populations of a given area its environmental conditions. Models discussed in population geography include population size, distribution, composition, growth and density. Others are immigration, mortality, race, fertility and aging, just to mention a few. Readers will understand better the society around them, demographic structures, and how populations can be managed through controlled movements. This book also discusses the roles of men and women in social development.

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About the Author

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.



Environmental Impact Assessment

Judith Rosales

The book 'Environmental Impact Assessment' brings to the notice of the readers the various impacts of the environmental changes that are taking place simultaneously. It takes the readers through the cases of the environmental changes one by one and explains the consequences they have on the sustainability of the environment. The book also highlights the importance of assessment of the impact that is taking place on the environment so that strategies can be formed to tackle the unwanted problems.

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About the Author

Judith Rosales is a biologist with more than 30 years of experience in industry, teaching and environmental research. She holds a PhD of Geography from Birmingham University, School of Geography and Environmental Sciences. Author of many scientific publications and general environmental texts of important subjects for use by students and the non-scientific public.



Encyclopedia of Environmental Management (set of 5 volumes)

Vierah Hulley

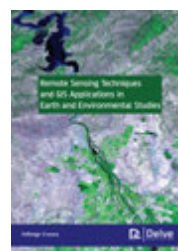
This encyclopedia discusses environmental management as the "management of relations and impact of manmade activities on nature". It mentions that the goal of environmental management is to guarantee that ecological solutions and biodiversity are safeguarded and maintained for future generations to use, and to maintain the integrity of the ecosystem by taking into account ethical, economic and research (ecological) variables. The encyclopedia attempts to define factors related to the conflicts which may arise between meeting demands and safeguarding the environment. It discusses concrete decisions and actions regarding policies and practices on how to evaluate, protect, allocate, develop, use, repair, remediate, and restore resources and the environment.

As knowledge on environmental matters continues to evolve, most of the environmental management practices mentioned in this encyclopedia emphasize on the integration of society and ecosystem. The main environmental management points discussed are as follows: a) Identification: through community complaints/concerns, experts identify a certain environmental issue b) Evaluation: Checking with relevant government sectors (province and national) to determine the severity of the problem; c) Control: The issue is called to offenders/polluters attention and individuals/companies who are told to stop illegal activities and solve problems or concerns including rehabilitation of the area. The encyclopedia also highlights self-monitoring systems for compliance with environmental protocols.

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About the Author

Vierah Hulley obtained her Ph.D. degree in Geohydrology from the University of the Free State, South Africa, in 2013. Her expertise is in Environmental and Earth Sciences and she has an extensive vocational background in the areas of natural resources management, environmental geochemistry, contaminated site remediation, sustainable development, and spatial analytics. She is the founder and Managing Director of HL Nexus: The Data Imaginarium; a company dedicated to optimizing natural resources management with data science.



Remote Sensing Techniques and GIS Applications in Earth and Environmental Studies

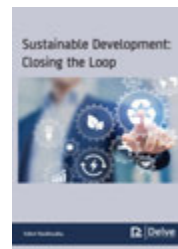
Solange Uwera

There are a lot of people who are taking up studies in the geographical domains as the interests of the students regarding the environment and earth keeps on rising. The book, Remote Sensing Techniques and GIS Applications in Earth and Environmental Studies, takes the readers through the various applications of the GIS tools and equipment and the techniques used in remote sensing, in the matters related to the study of earth and the environment. The readers get informed about various ways in which these tools work and the forms in which they exist for use and are also related with the future applications of the same.

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About the Author

Solange Uwera, M.Sc in Geographical Information Science from The University of Manchester is a young scientist with passion in research, a writer by occasion and she takes pride in educating the community through writing on every occasion. Most recently, her work landed her a position of writing, where she authors books on physical geography and environment. In the universe, "everything is related to everything else and near things are more related than distant things" and this is a powerful concept she has been exploring and writing about. Solange has experience in environmental monitoring, urban green infrastructure, rural development, environmental education and physical geography research.



Sustainable Development: Closing the Loop

Saket Kushwaha

One of the most significant topics for the current time in history is sustainable development. It is a development that complies with the requirements of the present without barring the necessities and opportunities of forthcoming generations. Sustainable development is a diverse subject encompassing various disciplines, providing it both a pragmatic approach and a philosophical base. It focusses on a broad range of interests from corporations to nations to stakeholders because it syndicates environmental safety and economic development into a single system. Sustainable development is linked with the methods for development of long-term activities of humans guaranteeing the harmony of economic, ecological and social equilibrium. Sometimes, the risk associated with the violation of sustainable development principles are of diverse kinds. Nevertheless, the consequences of various unsustainable activities of human beings hurt the ecosystem badly and may impact the survival of upcoming generations. The underlying agenda of this book on sustainable development is to provide detail insight on the principles and prerequisites of sustainable development. In order for us to achieve sustainable development, it must be comprehensive, i.e., it should successfully balance social goals with environmental and economic perspectives.

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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.



Vol 1: Introduction to Environmental Management

Vierah Hulley

This book introduces environmental management as the processes involved in controlling any possible negative effects of human activities on the environment. The chapter describes how society operates and evaluates environmental performance based on present practices. It also discusses environmental management system (EMS) that can help organizations improve environmental performance, reduce risks, and reduce business expenses. The topic describes the goals and benefits of EMS and the various EMS models available, and explains the common framework and primary elements of EMS implementation. The book also describes some of the corporate benefits of implementing an environmental management system, such as environmental performance, EMS identifies methods to improve efficiency, such as utilizing less material, minimum energy and reducing waste, which can assist to reduce overhead.

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About the Author

Vierah Hulley obtained her Ph.D. degree in Geohydrology from the University of the Free State, South Africa, in 2013. Her expertise is in Environmental and Earth Sciences and she has an extensive vocational background in the areas of natural resources management, environmental geochemistry, contaminated site remediation, sustainable development, and spatial analytics. She is the founder and Managing Director of HL Nexus: The Data Imaginarium; a company dedicated to optimizing natural resources management with data science.



Vol 3: Environmental Disaster Management

Vierah Hulley

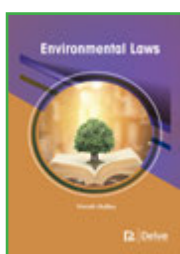
This book describes the increasing frequency and intensity of natural and man-made disasters in the world, and these disasters have devastating effects on the environment. It discusses changes in land use and land cover that have eroded the natural buffer zone that protects communities from harm. Disasters are described as emergencies caused by natural risks or man-made actions, leading to major changes in the situation in a relatively short period of time.

Common examples are displacement, disease, death, and crop loss. The book mentions that disasters may vary in cause, scope, interval, and necessary intervention measures. The author also claims that the socioeconomic structure of a society remains to be a key determinant of a population's vulnerability to disasters.

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About the Author

Vierah Hulley obtained her Ph.D. degree in Geohydrology from the University of the Free State, South Africa, in 2013. Her expertise is in Environmental and Earth Sciences and she has an extensive vocational background in the areas of natural resources management, environmental geochemistry, contaminated site remediation, sustainable development, and spatial analytics. She is the founder and Managing Director of HL Nexus: The Data Imaginarium; a company dedicated to optimizing natural resources management with data science.



Vol 5: Environmental Laws

Vierah Hulley

The book "Environmental Law" describes regulations, decrees, local, nationwide and international laws and treaties developed to protect the ecosystem from damage, and emphasizes the legal penalties of such damage to the authorities. This book refers to treaties developed to safeguard the environment from destruction. It also describes the need for companies and other organizations and their regulators to strive towards improving ethical principles by formulating regulations and industry standards for operating licenses. The book touches

on the ongoing debate on the impact of different pesticides on agriculture and greenhouse gas emissions, and struggle between science and industry to regulate legislation on environmental laws.

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About the Author

Vierah Hulley obtained her Ph.D. degree in Geohydrology from the University of the Free State, South Africa, in 2013. Her expertise is in Environmental and Earth Sciences and she has an extensive vocational background in the areas of natural resources management, environmental geochemistry, contaminated site remediation, sustainable development, and spatial analytics. She is the founder and Managing Director of HL Nexus: The Data Imaginarium; a company dedicated to optimizing natural resources management with data science.



Vol 2: Waste Management

Vierah Hulley

This book introduces environmental management as the processes involved in controlling any possible negative effects of human activities on the environment. The chapter describes how society operates and evaluates environmental performance based on present practices. It also discusses environmental management system (EMS) that can help organizations improve environmental performance, reduce risks, and reduce business expenses. The topic describes the goals and benefits of EMS and the various EMS models available, and explains the common framework and primary elements of EMS implementation. The book also describes some of the corporate benefits of implementing an environmental management system, such as environmental performance, EMS identifies methods to improve efficiency, such as utilizing less material, minimum energy and reducing waste, which can assist to reduce overhead.

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About the Author

Vierah Hulley obtained her Ph.D. degree in Geohydrology from the University of the Free State, South Africa, in 2013. Her expertise is in Environmental and Earth Sciences and she has an extensive vocational background in the areas of natural resources management, environmental geochemistry, contaminated site remediation, sustainable development, and spatial analytics. She is the founder and Managing Director of HL Nexus: The Data Imaginarium; a company dedicated to optimizing natural resources management with data science.



Vol 4: Environment and Technology

Vierah Hulley

The book explains "green" or "clean" technologies, and refers to the growth of new technologies aimed at protecting, monitoring or reducing the negative effect of technologies on the ecosystem and resource consumption. It also discusses how technology profoundly affects society, the economy, and the environment. It has caused various environmental and social problems, however it is also essential to address environmental degradation, food shortages, climate change, waste management and different other persistent global

challenges. The book describes how human society quickly responds to the ever-evolving challenges, which largely depends on the speed and scale through which advanced technologies replace inferior technologies in various global environments.

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About the Author

Vierah Hulley obtained her Ph.D. degree in Geohydrology from the University of the Free State, South Africa, in 2013. Her expertise is in Environmental and Earth Sciences and she has an extensive vocational background in the areas of natural resources management, environmental geochemistry, contaminated site remediation, sustainable development, and spatial analytics. She is the founder and Managing Director of HL Nexus: The Data Imaginarium; a company dedicated to optimizing natural resources management with data science.



Sustainability Assessment and Renewable Based Technology

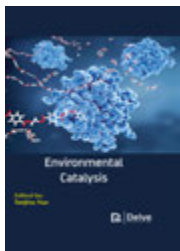
Elisa Gomez Gonzalez

Sustainability assessment and renewable based technology informs the readers about the concept of sustainability, sustainable development and the importance it holds. It discusses the evolution of CSR practices, the rethinking of the sustainable development model and the common excuses to not implement CSR. Also discussed in the book are the current future trends and opportunities for corporate social responsibility on a global level and the management level, the challenges for implementing sustainable business practices, the key drivers of sustainability, critical success factors for implementation of sustainable business practices from a people perspective and other important aspects of sustainability, that provide quite a lot of information on the subject matter.

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About the Author

Elisa Gomez was born and raised in Canary Islands; her personal mission is to incorporate Corporate Social Responsibility and Sustainability in all businesses. She strongly believes in the positive impact and added value it brings to the business itself and to all. With a Master's degree in International Corporate Social Responsibility and with more than 7 years of experience as Sustainability expert in International and Startups companies from a variety of sectors, Elisa is an expert in efficient and impactful Sustainability: Strategy definition, Implementation, Analysis, Training and/or Reporting.



Environmental Catalysis

Tanjina Nur

Environmental Catalysis discusses about the fundamentals of environmental catalysis. This book brings together the highlights on the topics such as environmental catalysis of stationary sources. The information about the testing of the SCR catalyst, which allows the readers to gather information about the most accurate projection of the remaining catalysts done by engineers, has been covered in this book. This book introduces the readers to the combustion catalysis and metals and oxyanion. It also covers the topics such as catalysis of electron transfer reactions and precipitation and dissolution. There are some techniques for the non – linear, which is used to characterize the strength of non-linear optical response, has been discussed in this book. This book provides readers with the insights related to the new developments taking place in the environmental catalysis.

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About the Editor

Tanjina finished her PhD in Civil and Environmental Engineering in 2014 from University of Technology Sydney (UTS). Now she is working as Post-Doctoral Researcher in the Centre for Technology in Water and Wastewater (CTWW) and published about eight International journal papers with 80 citations. Her research interest is wastewater treatment technology using adsorption process.



Altered Ecosystems

Judith Rosales

Altered Ecosystems talks about the ecosystem, biodiversity and ecological alterations, the ecological relationship between water and soil. It further comprises the major causes of biodiversity loss, wildlife responses to modified natural habitats and change in soil, streams and rivers. This book also discusses about measures of biodiversity conservation, human and disturbance ecology, alterations caused to health of humans by disturbances and migration of humans and its subsequent effects on ecological disturbances. It also provides the reader with the basic concept of ecosystem and biodiversity in order to analyze the relationship between water and soil and recognize the causes of biodiversity loss and responses of wildlife to the altered natural habitats.

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About the Author

Prof. Judith is an Ecologist and Environmental Specialist with more than 30 years of academic and consulting experience. She holds a PhD in geography from the University of Birmingham UK and wrote the PhD and Master Academic Programs of Environmental Sciences for the Universidad de Guayana, Venezuela.



Climate Change and Urban Development Nexus

Stephanya Lynn JonasLabee

Climate Change and Urban Development Nexus takes into account the notion of climate change and sustainable development along with the requirement of urban development. It further includes the severe impacts of greenhouse gases on rising ozone levels and the impact of climate change on urban transportation systems. It provides the reader with the vital understanding of climate change and its global impact on sustainable development, rising ozone levels, urban transportation systems and the major concerns related to the climate change and sustainable development. This book also discusses about industrial urban development and climate change, housing, urban development, and climate change, urban development planning and climate change, green building technology in fighting against climate change in urban areas and emerging issues on climate change and sustainable development.

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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.



Geomicrobiology

Urvashi Swami and Vijay Singh Gondil

Geomicrobiology examines the aspects of geomicrobiology and its physiological aspects. It includes molecular and non-molecular methodologies used in geomicrobiology. It provides the reader with the insights of geomicrobiology to understand the geomicrobiology of fossil fuels and the molecular and non-molecular methodologies involved in geomicrobiology along with its applications. This book also discusses about geomicrobiology of iron and sulfur, geomicrobiology of fossil fuels and applications of geo-microbiology.

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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 Ph.D. Her main area of research was fermentation and phytoremediation. After completion of PhD, she moved to Kuwait where she is running her own business of medical writing and editing.

Vijay Singh Gondil is Masters in Microbiology from Himachal Pradesh University, Shimla, India. Currently he is working in area of medical microbiology and exploration of alternative strategies to counter multi-drug resistance pathogens. His main area of interest is bacteriophages, endolysins and their delivery strategies. He has filled patent and published a number of papers in international journals of repute. He along with his research group designed a novel drop cast method of bacteriophage enumeration. Additionally, he is also working on other alternative antimicrobial agents such as antibacterial enzymes of bacterial origin, antibacterial nanoparticles, antibacterial metal complexes and antibacterial pigments as new drug targets for drug resistant pathogens. He aims to control cumbersome drug resistant bugs with alternative therapeutic agents, which are less or yet to be explored in human healthcare.



Climate Change and Challenges in Rural Livelihoods

Stephanya Lynn JonasLabee

Climate Change And Challenges In Rural Livelihoods provide the readers with the various effects of climate change and the challenges that it poses to the livelihoods of the people in the rural areas. It also makes the readers familiar with the impact of climate change on the food security of the rural people and draws their attention to some cases in Asia. This book also discusses about the impact of climate change on the poverty, the relation of climate change with the small-scale agriculture, the effect climate change has on the farmers and agricultural workers, the role of climate change in preservation of biodiversity and its impact on livelihoods and the role of climate change on the economic development.

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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.



Carbon Balance and Management

Quan Cui

Carbon Balance And Management makes the readers familiar with the global carbon cycle and the carbon sequestration potential on agricultural lands. It talks about understanding the balance of carbon and greenhouse gases. It provides the insights into the various aspects related to the balance of carbon in the ecosystem and its management so that the readers can know more about the carbon balance and related things. This book also discusses about measuring and managing carbon emissions of the European chemical transport, the balance of carbon in Africa, the climate change resulting from the carbon emission, the effects of carbon tax on the environment and economy and the chemistry of carbon cycle.

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About the Editor

Quan Cui obtained her PhD from Beijing Normal University in 2015. She worked as environmental impact assessment engineer for years. Aiming at linking science to policy, her study interest spans from ecosystem modelling to water resources management. She published peer-reviewed articles about using machine learning models in inflow forecasting, CO2 management and watershed ecosystem health assessment.



Climate Change and Flood Risk Management

Tanjina Nur

Climate Change and Flood Risk Management deals with the fundamental notion of climate change, its past, present and future. It consists of ecological impact of the climate change and the correlation between climate change and flood risk management. It provides the reader with the basic insights of the climate change and flood risk management so as to better deal with the ecological impacts and understand the flood policies at local, subnational and international level. This book also discusses about flood risk assessment and management, flood policies (insurance) at local, subnational and international level, role of technology in climate change and current developments in climate change and flood risk management.

Copyright 2020 | HB 9781774072110 | Price: \$165

About the Editor

Tanjina finished her PhD in Civil and Environmental Engineering in 2014 from University of Technology Sydney (UTS). Now she is working as Post-Doctoral Researcher in the Centre for Technology in Water and Wastewater (CTWW) and published about eight International journal papers with 80 citations. Her research interest is wastewater treatment technology using adsorption process.



Earth Systems and Environment

Amrita Pandey

Earth's Systems and Environment introduces the earth systems and the components that all comes in the earth systems. There are several layers contained in the earth systems such as geosphere, atmosphere, hydrosphere, cryosphere and biosphere and all these are covered in this book as a component of earth systems. This book provides insights about the global changes, that are taking place in the environment and earth systems, to the readers. The concepts related to the environmental science and technology and environmental management including the principles, methods and issues are been discussed in this book.

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About the Author

Amrita Pandey has received her Masters in Regional Planning from School of Planning and Architecture, Delhi; Post Graduate Diploma in Environmental Law from National Law School; MA in Geography, B.Ed. She has vast experience in Urban and Regional Planning/Social Development sector. She has been Involved in various programmes that support the urban development activities for the implementation of social and environment management framework in the states of Tamil Nadu and Madhya Pradesh.



Environmental Management in Construction Projects

Nseabasi Ikput

Environmental Management in Construction Projects takes into account the idea of environmental management and history of environmental sustainability. It consists of the origin of business construction, implementation of environmental management systems in the industry of construction. It provides the reader with the insights into the process of environmental management and environmental sustainability, so as to better understand the environmental laws and regulations, management and social cost of construction, crucial environmental issues and the improvement of waste management. This book also discusses about environmental laws and regulations, policy and management of project contaminated construction and demolition waste, impact on integration management, management in construction and social cost in construction project, major environmental issues and new materials, sustainability by information and communication technology, effect of lean tools to control external environmental risks and the green design and construction process.

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About the Author

Nseabasi Ikput, M.Sc., BEng, is a UK-based Chemical Process Engineer whose authenticity, dedication, and aptitude have all earned her the reputation as a seasoned industry leader. Over the course of nearly two decades, she has gained extensive engineering experience. Nseabasi's affinity for her field began at 14 years of age, when she first visited her father at work. She has had a relentless passion for discovery and lifelong learning ever since.



Carbon Foot-print of Industrial Nation and Climate Change

Quan Cui

Carbon Foot-print of Industrial Nation and Climate Change is a book that introduces the carbon foot-print of industrial nation and climate change. This book comprises topics including historical responsibility for climate change, measuring carbon foot-prints of direct as well as indirect emissions, which further covers the top countries and bottom countries who do such kind of measurement, and industrial energy efficiency and climate change. This book also aims to discuss the latest trends going on in the energy and emissions in 2018 and industries which account for most carbon dioxide release. Further description is provided in this book related to topics like climate change and tourism and the policy responses to climate change. There are a lot of companies which are responsible for reducing carbon foot-prints and they are cited in this book. The insights related to challenges and future aspects have been provided to the readers with the help of this book.

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About the Editor

Quan Cui obtained her PhD from Beijing Normal University in 2015. She worked as environmental impact assessment engineer for years. Aiming at linking science to policy, her study interest spans from ecosystem modelling to water resources management. She published peer-reviewed articles about using machine learning models in inflow forecasting, CO2 management and watershed ecosystem health assessment.



Atmospheric Thermodynamics

Tanjina Nur

Atmospheric thermodynamics discusses about atmospheric thermodynamics in a simple yet explanatory manner. This book comprises topics such as temperature, heat and internal energy. Thermodynamics has so many branches and this book tries to cover all of them in a detailed manner for the reader. This book lays down simple explanation of thermodynamics with the help of topics such as classical thermodynamics, statistical thermodynamics and three laws of thermodynamics. Different aspects and systems which are being employed in a thermodynamic system are also explained in this book with the help of well researched methodologies and observations conducted in this sector.

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About the Editor

Tanjina finished her PhD in Civil and Environmental Engineering in 2014 from University of Technology Sydney (UTS). Now she is working as Post-Doctoral Researcher in the Centre for Technology in Water and Wastewater (CTWW) and published about eight International journal papers with 80 citations. Her research interest is wastewater treatment technology using adsorption process.



Environmental Neurotoxicology

Urvashi Swami

Environmental Neurotoxicology explain the readers the various fundamentals of the environmental neurotoxicology and informs them about the various environmental chemicals and their relationship with human neurotoxicology. It explains the various biological markers in neurotoxicology and explain the ways in which the testing for neurotoxicology is done, Also discussed in the book is the neurotoxicology of metals, the explanation of cadmium and its neurotoxic effects, the toxicity of lead and the neuropsychological impacts related to it and the behavioral toxicology and the relations with environmental health science.

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About the Author

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 Ph.D. Her main area of research was fermentation and phytoremediation. After completion of PhD, she moved to Kuwait where she is running her own business of medical writing and editing.



Renewable Resources and Global Challenges

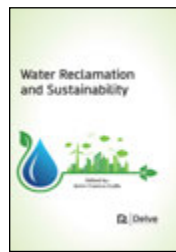
Mohit Chhabra

Renewable Resources and Global Challenges brings to focus of the readers the various challenges that are being faced by the resources of energy and other important things in the current world and how even the use of renewable resources is experiencing some difficulties. It gives a deep insight to the readers on the various aspects related to renewable energy resources and how they can be used to produce energy in the future. This book also discusses about the meaning of renewable resources, the various biotic and abiotic resources, the sources instrumental in renewable energy, generation of electricity from renewable energy resources, the issues related to non-renewable energy resources and the technical innovations in renewable resources sector.

Copyright 2020 | HB 9781774072738 | Price: \$165

About the Editor

Mohit Chhabra is an experienced professional in the power industry, having focused on power hardware in the loop and controller hardware in the loop testing, microgrid controller testing and validation, distributed energy resource integration challenges, and medium and high voltage short circuit testing. Mohit has Doctor of Philosophy, Master of Science, and Bachelor of Science degrees in Electrical Engineering.



Water Reclamation and Sustainability

Jurex Cuenca Gallo

Water Reclamation and Sustainability helps the readers understand the concepts of water reclamation and explains them the ways in which the sustainability can be achieved through the processes in water reclamation. It throws light on the several important aspects in the subject of water reclamation and explain the various ways to the readers in which sustainability can be achieved. This book also discusses about pollution of water across the globe, climate change and situation of water, sustainability related to water pollution, the water management systems in urban areas, activated sludge processes and recycling of water and its reuse.

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About the Editor

Dr. Jurex Gallo was conferred with his PhD degree in Chemical Engineering from De La Salle University – Manila in 2014. His expertise revolved in the fields of Material Science and Environmental Engineering focused on industrial and hazardous waste treatment and management. Presently, Dr. Gallo is affiliated as Senior Science Research Specialist of the Department of Science and Technology e-Asia Joint Research Program in the Philippines on developing functional carbon-based nanomaterials such as carbon nanotubes and graphene for energy and environmental applications.



Mineral Resources and Sustainability Assessment

Vierah Hulley

Mineral Resources and Sustainability Assessment introduces the readers to the mineral resources and sustainability assessment and talks about the evaluation, extraction, and processing of mineral resources. Further it throws light on the management of mineral resources and the sustainability assessment of mineral processing industries. Also discussed in the book are the various mineral resources and their relationship with the environment, and the economy, sustainable utilization of mineral resources and impact of mining and mineral processing. The book also provides the readers with insights on current issues and trends in mining and sustainable development.

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About the Editor

Vierah Hulley obtained her Ph.D. degree in Geohydrology from the University of the Free State, South Africa, in 2013. Her expertise is in Environmental and Earth Sciences and she has an extensive vocational background in the areas of natural resources management, environmental geochemistry, contaminated site remediation, sustainable development, and spatial analytics. She is the founder and Managing Director of HL Nexus: The Data Imaginarium; a company dedicated to optimizing natural resources management with data science.



World Regional Geography

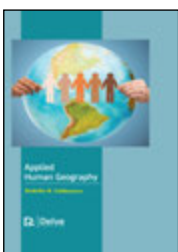
Amrita Pandey

World Regional Geography discusses the various aspects of world regional geography and the different topography and biotic interactions, special terrain geography and plate tectonics. It includes the human activities, the population and culture, globalization and development and other aspects. This book also discusses about the geographic information science and how geographic information represent the world and the applications of GIS like communication of geographic Information etc. The readers are informed about various geographic regions of the world like Asia, Africa, central America, Caribbean, Latin America, European regions. This book also throws light on human geographies and its various branches like cultural geography, development geography, human geography etc. Also discussed in this book is globalization and development in different parts of the world along with positive and negative effects of globalization. Also discussed in this book is economic development and its different aspects like traditional stage, transitional stage and take off stage.

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About the Author

Amrita Pandey has received her Masters in Regional Planning from School of Planning and Architecture, Delhi; Post Graduate Diploma in Environmental Law from National Law School; MA in Geography, B.Ed. She has vast experience in Urban and Regional Planning/Social Development sector. She has been Involved in various programmes that support the urban development activities for the implementation of social and environment management framework in the states of Tamil Nadu and Madhya Pradesh.



Applied Human Geography

Rodolfo B. Valdenarro

Applied Human Geography discusses about different aspects of applied human geography in a simplistic manner. This book comprises topics like human geography from a global perspective, culture and its stages in human geography and cultural dimensions and politics under globalized conditions. Applied human geography is covered in this book with the help of topics such as the cultural psychogeography of human development, culture and its stages in human geography and historical geography and ethnic communities. Explanation of applied human geography is a vast sector which needs ample explanation and researches, and this book tries to provide insights to the readers by doing the same in a simplistic manner.

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About the Author

Rodolfo B. Valdenarro Jr., is a Professor and licensed education practitioner at Laguna State Polytechnic University where he served as Director of Student Affairs and Services. He finished Master of Arts in Teaching Social Science at University of Rizal System as scholar. 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 currently the President of State Universities and Colleges- Association of Student Affairs Administrators in Region IV (CALABARZON and MIMAROPA), Philippines. Mr. Valdenarro has presented researches on Social, Behavioral, Educational and Gender Studies in national and international conferences.



Aging and Diet

Shraddha Gautam

This book describes diet as a factor that promotes long-term health in people. The dietary components that prevent aging and diseases are mentioned. To better understand the connection between diet and aging, the author discusses relevant issues that affect food choices and practices around the world; such as the relation between obesity, overweight and diets. The book also discusses diet challenges for countries around the world, such as African communities where access to nutritious food may be hampered by poverty. The need to manage diseases tied to diets in present day society is touched on in the book, so as to ease unsustainable burden on the healthcare system.

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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.



Developments in Food Engineering

Sujata Nagnath Mustapure

Food is a basic need of humans and of any life for that matter. There have been many developments in the field of food manufacturing and production, to provide the people with the best quality of food in terms of nutrients as well as in terms of taste. The book 'Developments in Food Engineering' takes the readers through various such developments that have happened till now and focuses on the ones that have had significant impact on the food production industry and the supply of food in the market. It emphasizes on the efforts that have been made to provide the humans with quality as well as food security.

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About the Editor

Dr. Sujata Nagnath Mustapure is an associate professor at 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 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 Vidhyapeet, Parbhani. She has authored several national and international publications.



Food Contamination and Safety

Urvashi Swami and Vijay Singh Gondil

The food safety and contamination practices were explained in this book. The microbial contamination of the food products was emphasized in detail. Some of the harmful bacteria that produces food borne toxins were illustrated. Some of the advanced techniques that can be used in the analysis of the food contaminants was explained in this book. Various types of flavors that enhance the customer's satisfaction was explained with examples. Some of the molecular techniques that can determine the quality of the food was discussed. Some of the chemical contaminants that spoil the food products were described with popular examples. The evaluation of food safety protocols was described by considering the local legislations of various countries. The process of food fortification and its role in the food processing industries was discussed in detail.

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About the Author

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.

Vijay Singh Gondil is Masters in Microbiology from Himachal Pradesh University, Shimla, India. Currently he is working in area of medical microbiology and exploration of alternative strategies to counter multi-drug resistance pathogens. His main area of interest is bacteriophages, endolysins and their delivery strategies. He has filled patent and published a number of papers in international journals of repute. He along with his research group designed a novel drop cast method of bacteriophage enumeration. Additionally, he is also working on other alternative antimicrobial agents such as antibacterial enzymes of bacterial origin, antibacterial nanoparticles, antibacterial metal complexes and antibacterial pigments as new drug targets for drug resistant pathogens. He aims to control cumbersome drug resistant bugs with alternative therapeutic agents, which are less or yet to be explored in human healthcare.



Personalized Food: From home Cooking to the Food Industry

Sara Diana Garduno Diaz

More recently, the food and nutrition panorama has become much more meticulous. Currently, personalized food and nutrition involves an ever increasing in-depth approach, evaluating a person's genes, eating habits, training schedules, sleep patterns, microbiome, and even the metabolome. The roles that food plays in peoples' lives are wide ranging and may include comfort, sustenance and nutrition, as well as survival, addiction and poison. In this book, the concept of personalized food is explored. It covers the practices of home cooking as well as picky eaters. It looks into the why the personalized nutrition changes over a lifetime. The book also presents a look into what the future holds, with concepts such as the quantified self and a discussion of current dietary recommendations.

Copyright 2021 | HB 9781774076347 | Price: \$160

About the Author

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.



Soy and Soy-based Foods in Health and Nutrition

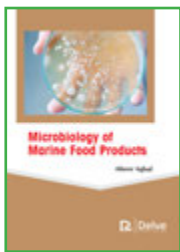
Oliva DSouza

Soy and Soy-Based Foods in Health and Nutrition is a book that outlines the importance of soy in the world food market and emphasizes on the manner in which soy is gaining importance in a world that is adopting vegan diet more and more. Soy is a rich source of protein and is a primary protein source in vegan food in US as well as in Asia Pacific regions. The soy consumption has gone up by many folds in the recent past and is expected to shoot even further. The book makes the readers realize this by quoting several examples of its applications and farm-raising.

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About the Author

Dr. Oliva DSouza is a dental surgeon with post-graduate diplomas in medical administration and medical tourism. She has completed multiple certifications in Six Sigma, 5-S, public health, organizational development and people skills. Having honed her clinical skills at the Armed Forces Institute of Dental Sciences, she practiced at various private and corporate hospitals for 15 plus years, before moving on to pursuing her passion for writing, editing and academic research. She has a keen interest in research, data analysis and the application of artificial intelligence in healthcare. She freelances as a technical and academic consultant/editor for many websites, blogs and dental product companies. She has completed the women's entrepreneurship program from Indian Institute of Management, Bangalore. She serves as a director for a startup in the artificial intelligence area and also runs a business in handcrafted, natural spa products. She enjoys sports and is a voracious reader.



Microbiology of Marine Food Products

Abeer Iqbal

All food products possess their own characteristic microbiology. Nevertheless, out of all the fodder commodities, seafood is considered to have the most complex and diverse microbiology. In contrast to poultry or meat products where a few living species are categorized in each group, the term seafood covers hundreds of species and genera. This book offers a comprehensive investigation of microbiological safety and quality concerns of seafood. The detailed analysis of seafood products in different stages is presented in the book including harvest stage, processing stage and consumption stage. Most of the chapters in the book are comprehensively written based on latest data. An intensive effort has been made to integrate discussions on matters that are both timeless and timely. There are eight chapters in the book in which some of the topics are not essentially "microbiological" in nature; however, these topics are key to any meaningful information on seafood safety; these may include: Parasites, Thermal Processing, De-purification, and Natural Toxins. This book interprets seafood microbiology and seafood industry from the standpoints of processing influences and environmental influences. It will serve as an impetus for prospective research in these two areas of food industry, and bring the paradigms of safety and quality into effect.

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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!



Waste Management and the Food Industry

Akansha Singh and Shobhit Kumar Singh

Waste Management and the Food Industry gives an introduction to the food industry and explains it as a growing sector. It talks about the waste generation in food industries and the sustainability that can be achieved in such industries. It also talks about the technology used in the utilization and treatment of food and the optimization of manufacturing to bring reduction in waste generation in the food processing. Also discussed in the book is the consumer interest in waste management and co-product recovery, the environmental impact of waste generation in food industries, the issues and challenges in food waste separation and the trends and future of the food industry.

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About the Authors

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 Biomed 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.

Dr. S. K. Singh is Ph.D. in Agriculture with special reference to development of Bradyrhizobium japonicum strains for symbiotic nitrogen fixation in Soybean crop (Glycine max.) (2012) under the guidance of the renowned plant scientist, Prof. Dr. A. Vaishampayan. He has 07 years of research experience in the field of Crop Improvement with special reference to Conventional Plant Breeding, Biodiversity of plant and their natural resources, varietal development of soybean and tea plants. Has long term experience in field oriented plant breeding, with special emphasis on tea varietal development program.



Geriatric Nutrition

Sara Diana Garduno Diaz

Geriatric Nutrition discusses the different components of nutrition such as proteins, fats, vitamins, minerals, and malnutrition in elderly people. This book discusses the digestion and absorption of food in and the factors that affect the absorption and ingestion of food in elderly people. The various aspects related to food safety and food handling are discussed in this book. The physiological and psychological changes that occur in elderly people with age have been explained. The nutrition planning in elderly people, the nutrition related health conditions in elderly people and the future trends in geriatric nutrition are discussed as a part of this book.

Copyright 2020 | HB 9781773612768 | Price: \$160

About the Author

Dr. 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. Sara has worked as Research Fellow for several EU-funded research projects and was awarded research grants from CONACYT (Mexico) and the BBSRC (UK). She is currently Senior Nutrition Consultant at Your Choice Nutrition in Kuwait, where she has been working on functional nutrition and wellness since 2014.



Applied Human Nutrition for Food Scientists and Home Economists

Sara Diana Garduno Diaz

Applied Human Nutrition for Food Scientists and Home Economists discusses about basic concepts of nutrition for food scientists and home economists. This book comprises topics such as food composition, dietary patterns and popular diets as well as digestion and metabolism. Different aspects are also discussed in this book which basically are important to understand human nutrition. Readers are provided with explanation of topics such as nutrition and home economics as well as nutrition and food science. This book lays down explanation and importance of nutrition and food science, nutrition during pregnancy as well as nutrition during childhood. As nutrition is an integral part of daily life it is more than what meets the eye and this book tried to explain the same in a simplistic manner.

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About the Author

Dr. 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. Sara has worked as Research Fellow for several EU-funded research projects and was awarded research grants from CONACYT (Mexico) and the BBSRC (UK). She is currently Senior Nutrition Consultant at Your Choice Nutrition in Kuwait, where she has been working on functional nutrition and wellness since 2014.



Proteomics in Food Science

Abeer Iqbal

Proteomics in Food Science gives the readers an introduction to the proteomics and the related studies and provides the readers with an explanation of the concepts and techniques that are used in proteomics. The book talks about the relation of proteomics with plant food sources and the animal food sources. The book relates proteomics to aquaculture in detail and further talks about the various technologies employed in the food processing. Also discussed in the book is the perspective on safety of food and its relation to proteomics, the systems biology in nutrition research, the application of proteomics in food science and technology and the prospects of proteomics in the future.

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About the Author

Abeer Iqbal is pursuing her PhD in Biological Sciences from University of The Punjab in Pakistan. She is also MPhil in Microbiology and Molecular Genetics from University of The Punjab, Pakistan. She is passionate about writing and research related to Biological Sciences. She has been working as an academic writer and medical blogger for the past few years and enjoys every part of her job. She feels that Genetics and Biochemistry are the real essence of life and learning and unraveling new researches in these areas is really amazing !!



Applied Nutrition and Food Technology

Cristina García Jaime

Applied Nutrition and Food Technology introduces the readers to the application of technology in the field of food and technology, as it goes on to explain what food technology is and updates the people with the history of food science. Listing the various principles of food technology and preservation. Also discussed in the book are the methods of food technology, the role of fruits, vegetables, meat and the products based on it, in providing the required nutrition to the people. It also provides the readers with knowledge on the preservation practices in the storage of meat and meat-based products, discussing the future possibilities in the field of applied nutrition and food technology.

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About the Author

Cristina García Jaime is a Spanish food specialist who studied Food Quality and Technology in the University of Granada and Human Nutrition and Dietetics in Pablo de Olavide University (Seville). She has worked in different food areas: scientific, industry and clinic. Currently, she has founded a company established in Europe and called "Foodise" dedicated to help small business and companies to manage all issues related to food.



Principles of Food Sanitation

Cristina García Jaime

Principles of Food Sanitation talks about the food sanitation principles in the context of food requirements in the society. It comprises the assessment of food quality and personal hygiene in food handling. It provides the reader with the fundamental understanding of food sanitation, foodborne microorganisms, food retailing, waste management and environmental pollution in terms of food sanitation. This book also discusses about agricultural food sanitation practices and postharvest losses, foodborne microorganisms, food retailing and sanitation, photo-degradation of foodstuffs, water supply and sanitation and environmental pollution, waste management, and food sanitation.

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About the Author

Cristina García Jaime is a Spanish food specialist who studied Food Quality and Technology in the University of Granada and Human Nutrition and Dietetics in Pablo de Olavide University (Seville). She has worked in different food areas: scientific, industry and clinic. Currently, she has founded a company established in Europe and called "Foodise" dedicated to help small business and companies to manage all issues related to food.



Tropical Food Science

Cristina García Jaime

Tropical Food Science discusses about food science and its various related fields like food microbiology, food engineering and processing, food chemistry and biochemistry. It also discusses the tropical food science from the global perspective, its geography and climate. The nutritional values of some tropical foods like proteins, carbohydrates, fat and oil, vitamins have also been discussed. This book throws light on the nutritive value of food, importance of food labels on packaged foods as it tells about the ingredients and nutrients contain inside it. There is a discussion about food processing and nutrition of tropical foods, the effects of processing and storage of food and the various processes affecting food nutrient content like fertilizers, milling, blanching, canning etc. Also discussed in the book is food absorption and digestion and its related aspects like absorption of the digestive products and digestive enzymes and small intestine.

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About the Author

Cristina García Jaime is a Spanish food specialist who studied Food Quality and Technology in the University of Granada and Human Nutrition and Dietetics in Pablo de Olavide University (Seville). She has worked in different food areas: scientific, industry and clinic. Currently, she has founded a company established in Europe and called "Foodise" dedicated to help small business and companies to manage all issues related to food.



General Biology

Ashok Kumar Bishoyi

The meaning of biology is, "The science of life", which is derived from the Greek word bios (life), and logos (knowledge). So, Biology is the field of science dealing with Living Being. That's why Biology is also called Life Science.

The book circumvents the customary human-centric style of nearly all introductory textbooks, the style which significantly misrepresents our understanding of the diversity of life. Our methodology focusses on the illustration of individual topics and their impact on different living species. For instance, the discussion of the cell-structure of different living things is present in the same chapter. The authors also highlight that it is essential to understand biological science as a whole for a thorough understanding of human biology. The book mainly avoids the use of specialized biological vocabulary where possible, instead it offers the concepts using simple English.

This book is equally useful for readers from diverse backgrounds including researchers, professors, students, and biological scientists. Moreover, people having a background in other disciplines can also use this book to grasp the fundamentals of biology.

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About the Editor

Dr. Ashok Kumar Bishoyi, is presently working as Assistant Professor (Microbiology) at Marwadi University, Rajkot, Gujarat, India. Prior to academic carrier, he has worked as scientist B at Gujarat Biotechnology Research Centre, department of Science and Technology, Govt. of Gujarat. During his scientific carrier, he has executed different research projects related to transcriptomics, genomics, plant tissue culture, animal tissue culture, virology, molecular marker development, etc. He has also successfully completed different external/ internal funded research projects. He graduated from Charotar University of Science and Technology, with doctorate in Biotechnology in the year 2017 and master graduate in Biotechnology from Berhampur university, Odisha. He has published number of research articles in different reputed peer reviewed international and national journals for his research credit. He has also reviewed number of research articles/books for different reputed international scientific journals/publishers.



Soilborne Pathogens

Urvashi Swami

The purpose of this book is to highlight existing knowledge about various methods of soil-borne disease control, including: steam soil disinfection, crop rotation, hydroponic and soil-less culture systems, soil amendments, soil solarization, natural compounds grafting and biological control. It also mentions the different types of pathogens such as viruses, bacteria, fungi, protozoa and parasitic worms, including the positive and negative effects of soilborne pathogen control methods. The book further

discusses environmental factors like drainage, humidity, soil composition, temperature and PH which affect soilborne pathogen reproduction. Suggesting that regular checks on plant health can determine whether soil borne pathogens are present or not. The author also reflects on the relationship between soilborne pathogens and climate change trends globally.

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About the Author

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.



Carbohydrates in the Body and Functions

Shiv Sanjeevi Sripathi

Carbohydrates are present in whole grains and potatoes, as well as, other sources. Apart from providing a quick source of energy (remember the rejuvenating effect of glucose –based drinks or eating a fruit?), these molecules assume several roles in organisms. The roles include structural strength (cellulose and pectin), signaling, host-pathogen interactions (glycoproteins), and even as treatment approaches. As far as their intake is concerned, researchers suggest that more than the quantity or the percentage of carbohydrates consumed, the quality is important. Amongst the various carbohydrate sources, the consumption of whole grains is recommended along with legumes that contain other nutrients like proteins. We believe that the readers find this book informative as information on all aspects of carbohydrates has been compiled in this single book.

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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 from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E.coli & M.smegmatis. As a writer, he has authored and co-authored 25 books with Delve and Arcler International Press. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore ancient customs and traditions.



Primate Biogeography

Manoranjan Prasad Sinha

Primate Biogeography explores the various aspects related to the lives of the primates. These aspects cover their habitats, their growth characteristics, their distribution across the globe, their development stages, and the various forms in which they are found. The book aims to develop a basic understanding of the primates in the readers and tries to make them informed about the introductory knowledge with respect to the primates and their diversity.

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About the Author

Prof. Manoranjan Prasad Sinha, M.Sc., (Gold medallist), Ph.D., D.Sc., FAZ, FZSI, FNEA, a Professor of Zoology is currently Vice Chancellor of S.K.M. University, Dumka (Jharkhand) and has served as Pro-Vice Chancellor of V.B.U. Hazaribag. He is a recipient of many awards like Dr. S. Radhakrishnan Education Excellence Award and Scientist of the Century Award, Award of excellence etc. by many learned academic bodies. He is Fellow and Office Bearer of many academic and learned bodies and presently Chairman of Research Advisory Committee of Central Tasar Research and Training Institute and Research Co-ordination Committee members of Central Silk Board Govt. of India. He is credited for publication of more than two hundred research papers in the reputed National and International journals. He is also chief editor of two reputed journals. Prof. Sinha has experience of handling many research projects funded by UGC & DBT, Dept. of Science and Technology, Govt. of India. Prof. Sinha has successfully supervised more than 25 Ph.D. work. The present book is the outcome of some of his findings done with his researcher scholars. He has authored a good number of books.



Immunotherapy: A Review and Update

Shiv Sanjeevi Sripathi and Raghu Subramaniam

Immunotherapy refers to harnessing the immune system to treat cancer and infectious diseases. The immune system is robust enough to fight microbes and also perform what is termed as immune surveillance or checking for any alterations in cells. The idea of immunotherapy is hence simple-it activates the immune system to target pathogens or cancer cells. Given these interesting aspects, this book covers the history and basics of immunotherapy. Apart from discussing the approaches, the aspects

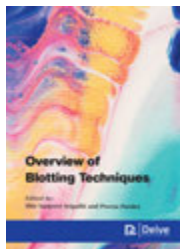
of challenges are presented. These include honing the specificity and the cost of the therapy. Potential solutions to overcome these challenges have been presented. Thus, a reader can read this concise book that presents the fundamentals of immunotherapy without getting overwhelmed.

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About the Editors

Shiv Sanjeevi 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 from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E.coli & M.smegmatis. As a writer, he has authored and co-authored 25 books with Delve and Arcler International Press. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore ancient customs and traditions.

Raghu Subramaniam is based out of Chennai, Tamilnadu, and has been in the advertising space for over two decades, has managed his own start-up. Raghu has been professionally writing for close to eight years now. Raghu has written extensively for some world class medical establishments, hospitals and specialization centres. He has written technical content for a leading skin care and hair transplant clinic and has provided social media content vis-a-vis technical articles. He has also written for a Stem Cell Therapy wing of a leading hospital and has written technical content for a leading Orthopaedic Surgeon for his Endoscopic Spinal Surgery Clinic. Raghu Subramaniam has written screenplays, fictional content, essays, written and rewritten articles and scientific content especially relating to emerging technologies, electronics. That said, he has written on a wide gamut of other areas as he is a quick study and an extremely fast learner. He has a sound knowledge of creating marketing material, pitch material, introductory articles and rewriting of core articles, essays and so on. Raghu Subramaniam is at home with creation of original content, as well as rewriting or enhancement of pre-written content.



Overview of Blotting Techniques

Shiv Sanjeevi Sripathi and Prerna Pandey

There are 2 techniques that are commonly employed in research labs: gel electrophoresis and blotting. Following electrophoresis, separated nucleic acids and proteins can be transferred to a membrane where they are analyzed or detected. Depending on the molecule being analyzed, Southern blot refers to transfer and studying DNA, Northern blotting refers to RNA, Western blotting to proteins and eastern blotting for post-translational modifications. Given the importance of blotting in the lab, this book comes at an opportune time. The book discusses the protocols and applications of blotting-Southern, western, northern and eastern blotting. Case studies have also presented to help the reader gain insights into the practicality and applicability of blotting in today's world. The editors hope that this book will serve as a lab staple just like the aforementioned blotting techniques.

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About the Editors

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 from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E.coli & M.smegmatis. As a writer, he has authored and co-authored 25 books with Delve and Arcler International Press. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore ancient customs and traditions.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, has worked as a senior research fellow 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, as well as gene silencing using the RNA interference technology. She has published papers in peer-reviewed journals in the field and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. Prerna has also completed her editing and proof-reading courses from SIEP, UK and now works as a freelance scientific editor, writer and a subject matter expert. She has edited and co-authored several books on a range of topics in Life-Sciences. When Prerna is not busy with her assignments, she loves visiting historical places.



Camouflage

Shiv Sanjeevi Sripathi

We have heard the phrase "master of disguise" right from childhood. While we disguise or camouflage our "emotions" or "scars", plants and animals camouflage themselves for protection. This book is a concise presentation of camouflage encompassing the plant, animal, and human worlds. Plants were initially considered defenseless and senseless creatures. However, certain examples of mottled leaves called disruptive coloration prevent easy recognition by color blind herbivores. This book is a concise presentation of camouflage encompassing the plant, animal, and human worlds. Plants were initially considered defenseless and senseless creatures. However, certain examples of mottled leaves called disruptive coloration prevent easy recognition by color blind herbivores. Similarly, several examples of camouflage in the animal kingdom have been discussed to gain a snapshot of this interesting aspect of biology.

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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 from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E.coli & M.smegmatis. As a writer, he has authored and co-authored 25 books with Delve and Arcler International Press. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore ancient customs and traditions.



Gene Silencing: Approaches, Applications and Updates

Shiv Sanjeevi Sripathi

We turn off switches every day-can we turn off a gene or a group of genes? Sounds exciting? Read ahead. Researchers are using the property of RNA interference to silence several genes that have opened up the use of siRNAs in the analysis of the various genes that are involved or implicated in diseases. This book is a concise presentation of RNA silencing: the mechanisms involved have been discussed along with figures. The various patents, research strategies and the market for RNAi-based therapeutics have also been presented for the readers to understand the exact scenario in this one concise book that will "silence" your questions!

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Hygiene

Shiv Sanjeevi Sripathi and Prerna Pandey

The recent incidence of Coronavirus took a toll across the world (close to 16,362 mortalities as of 25th March 2020) involves the maintenance of social distancing and frequent washing to lower the occurrence of the disease. Basic hygiene practices advocated to lower the transmission of the disease are not touching the mouth or face-basic lessons in hygiene we learned in school are reemerging as points to prevent this deadly epidemic. In this concise book, the salient concepts of hygiene have been covered with practical applications in today's life. The familiar saying "Cleanliness is next to Godliness" becomes a reality even in today's world for mindful and healthy living!

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About the Editors

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 from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E.coli & M.smegmatis. As a writer, he has authored and co-authored 25 books with Delve and Arcler International Press. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore ancient customs and traditions.

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Protein Purification

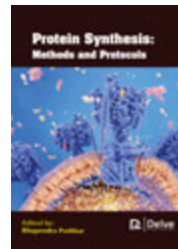
Bhupendra Pushkar

This book describes the concepts underlying the process of protein purification. The strategies and equipment needed in the protein purification was described. Advanced techniques like Polyacrylamide Gel Electrophoresis and Mass spectroscopy were explained. Isolation of proteins through protein chromatography was illustrated. Some of the advanced platforms such as proteomics and associated areas were described in detail. The sophisticated instrumentation of HPLC in the analysis and purification of proteins was explained in detail. Different types of electrophoresis were discussed. The role of nanotechnology in the protein purification process was explained. The analysis of proteins and purification technology were emphasized in detail for a systematic study.

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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.



Protein Synthesis: Methods and Protocols

Bhupendra Pushkar

Protein Synthesis: Methods and Protocols is a book that takes the readers through the various ways in which the proteins are synthesized and then further used for other applications. It throws light on the chemical reactions taking place in the process. The book lays down different kinds of methods and the procedures that are followed in protein synthesis and the important protocols that need to be followed regardless of anything else. The book gives the readers a fair idea of the whole process and is thus technical in nature and extremely informative on the processes involved.

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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.



Encyclopedia of Insects and their Diversity (set of 3 volumes)

Laichattiwat Mukesh Anandrao

The encyclopedia of insects and their diversity discusses the variety of insects at all levels, from genetic variants of the same classification to an array of species, genres, families and higher classification standards; it also mentions various ecosystems and physical conditions that insects rely on for their survival. Insect population refers to all insects that belong to the same species and reside in the same geographic area. A community meanwhile is the collection of several insect species living in a particular geographic area.

This encyclopedia introduces insects as the biological foundation for all terrestrial ecologies. They circulate nutrients, pollinate plants, scatter seeds, preserve soil structure and fertility, manage populations of other living things, and provide the main food source for other organisms. Most insect pests in agriculture largely are non-native species, typically without their natural biotic control agents, and they have been introduced into new ecosystems. The encyclopedia remarks that insects have developed unique characteristics in the animal kingdom, which benefit specialists in biomechanics and bioengineering who use their adaptations to create modern inventions. Ever since humans began to cultivate the soil, insects have been complementing their labor by helping in pollination and other such biological processes. The encyclopedia emphasizes that the ecological and economic significance of insects in natural pollination of agricultural crops can't be underestimated, since it enhances their overall quality and quantity.

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About the Editor

Dr. Mukesh Laichattiwat, Ph. D (Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P.) is presently working as Assistant Professor at College of Agriculture, Parul University, Vadodara. Dr. Laichattiwat worked as Assistant Professor at college of Agriculture, Naigaon (Bz.), Nanded M.S. (2018-2019). He did his B.Sc (Ag.) From College of Agriculture, Ambajogai (Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, M.S.) and M.Sc (Ag.) from Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P., He was awarded UGC fellowship for his Ph. D research. He qualified ICAR-NET in 2013. Dr. Laichattiwat is a recipient of Best Poster presentation award in 2014. He Published 18 research article, 7 book chapters/proceedings, 5 popular articles and 15 abstract.



Vol 2: Insects' Habitats

Laichattiwat Mukesh Anandrao

This book explores the diversity of insects as the biggest and most important animal group on earth. The author estimates there could be around 10 million living insect species today. The book describes the history and evolution of insects, with the oldest insect fossil (the mandible (or jawbone) found in Scotland), estimated to be around 408 to 438 million years old. This shows that insects were one of the earliest animals to conquer the earth. This book explains that insects are indispensable to every ecosystem.

They pollinate crops, decompose plants and animals, and are themselves nourishment for some communities. The book identifies various insect habitats, both marine and terrestrial, including how to protect them.

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About the Editor

Dr. Mukesh Laichattiwat, Ph. D (Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P.) is presently working as Assistant Professor at College of Agriculture, Parul University, Vadodara. Dr. Laichattiwat worked as Assistant Professor at college of Agriculture, Naigaon (Bz.), Nanded M.S. (2018-2019). He did his B.Sc (Ag.) From College of Agriculture, Ambajogai (Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, M.S.) and M.Sc (Ag.) from Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P., He was awarded UGC fellowship for his Ph. D research. He qualified ICAR-NET in 2013. Dr. Laichattiwat is a recipient of Best Poster presentation award in 2014. He Published 18 research article, 7 book chapters/proceedings, 5 popular articles and 15 abstract.



Vol 1: Introduction to Insects and their Diversity

Laichattiwat Mukesh Anandrao

This book discusses the diversity of insect species and numbers and their evolutionary associations. It illustrates the significance of insects through regional biodiversity, taxonomic biodiversity, tools and methods, and management and protection. The book examines the wide range of insect species worldwide and their evolutionary associations. It provides relevant case studies that assess how insect biodiversity may help address the needs of a quickly growing population. The book's conclusion is that a comprehensive understanding of insect biology and ecology is the only means to sustainably preserve ecosystems in a changing global environment. It discusses various topics about insects such as communication, locomotion, social behavior and their relationship to humans.

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About the Editor

Dr. Mukesh Laichattiwat, Ph. D (Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P.) is presently working as Assistant Professor at College of Agriculture, Parul University, Vadodara. Dr. Laichattiwat worked as Assistant Professor at college of Agriculture, Naigaon (Bz.), Nanded M.S. (2018-2019). He did his B.Sc (Ag.) From College of Agriculture, Ambajogai (Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, M.S.) and M.Sc (Ag.) from Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P., He was awarded UGC fellowship for his Ph. D research. He qualified ICAR-NET in 2013. Dr. Laichattiwat is a recipient of Best Poster presentation award in 2014. He Published 18 research article, 7 book chapters/proceedings, 5 popular articles and 15 abstract.



Vol 3: Conservation and Restoration of Insect Population

Laichattiwat Mukesh Anandrao

This book presents restoration ecology as the scientific research of restoring disturbed insect ecosystems through human intervention. It discusses conservation biology, which focuses on preventing the continued degradation of insect populations, and restoration ecology as a positive reversal of this degradation. The book mentions that insect conservation biology is a multidisciplinary science that can help conservation practitioners solve this loss of biological resources. The protection and restoration of insect populations has two main goals: to assess the human impact on insect biodiversity, and to build practical methods to prevent the extermination of insect species as well as maintaining the integrity of insect ecosystems.

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About the Editor

Dr. Mukesh Laichattiwat, Ph. D (Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P.) is presently working as Assistant Professor at College of Agriculture, Parul University, Vadodara. Dr. Laichattiwat worked as Assistant Professor at college of Agriculture, Naigaon (Bz.), Nanded M.S. (2018-2019). He did his B.Sc (Ag.) From College of Agriculture, Ambajogai (Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, M.S.) and M.Sc (Ag.) from Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, U.P., He was awarded UGC fellowship for his Ph. D research. He qualified ICAR-NET in 2013. Dr. Laichattiwat is a recipient of Best Poster presentation award in 2014. He Published 18 research article, 7 book chapters/proceedings, 5 popular articles and 15 abstract.



Principles and Advances in Human Genetics: A Primer on Genetic Disorders

Cheryl Natividad

Many of the fundamental concepts in genetics are applicable across various organisms—microorganisms, plants, animals, and humans. This book presents a concise discussion of these universal genetic principles. In addition, this book also puts a spotlight on an aspect of genetics that is distinctly human, that of genetic disorders. Many of these are rare, have no cure, and have no specified cause. This book discusses representative genetic disorders as well as some of the DNA-based technologies that enable a better understanding of these disorders

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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.



Advancement in the Cancer Treatment

Preethi Kartan

Cancer: It is a disease where our body cells lose ability to divide at normal rate, this abnormal growth of cells results formation of lumps or tumours in body. Depending on the stage of the cancer and condition of the patient, treatment for the disease is decided. Treatment is given either to cure the disease or to shrink the tumour size or slow down the growth of disease allowing patient to live a normal life or live symptom free if possible. General treatment options available for treating cancer include: Surgery, Chemotherapy, Radiation therapy, Immunotherapy. In this book, discusses some of the advances made in the field of cancer treatment.

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About the Author

Preethi is a postgraduate in Biotechnology from University of Leeds, UK. She is currently working as a Scientific Associate at one of the CRO's in India and her interest lie in life sciences related writing.

Wildlife Conservation and Management

Ashok Kumar Bishoyi



Wildlife Conservation and Management is a book that takes the readers through the various aspects of conservation of wildlife and the ways all the conservation hotspots are handled and managed. The book emphasizes on the need to conserve the wildlife. It informs the readers about the distribution of wildlife around the world and the habitats of some specific kinds of wildlife, while emphasizing on the fact that the habitats need to be conserved as well. The book also proposes some of the prominent ways in which the wildlife conservation practices can be carried forward.

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About the Editor

Dr. Ashok Kumar Bishoyi, is presently working as Assistant Professor (Microbiology) at Marwadi University, Rajkot, Gujarat, India. Prior to academic carrier, he has worked as scientist B at Gujarat Biotechnology Research Centre, department of Science and Technology, Govt. of Gujarat. During his scientific carrier, he has executed different research projects related to transcriptomics, genomics, plant tissue culture, animal tissue culture, virology, molecular marker development, etc. He has also successfully completed different external/internal funded research projects. He graduated from Charotar University of Science and Technology, with doctorate in Biotechnology in the year 2017 and master graduate in Biotechnology from Berhampur university, Odisha. He has published number of research articles in different reputed peer reviewed international and national journals for his research credit. He has also reviewed number of research articles/books for different reputed international scientific journals/publishers.



Artificial Intelligence in Biotechnology

Preethi Kartan

World has seen rapid development in the field of Information technology and Biotechnology over a decade. New experimental technologies developed in biotechnology and data available made it possible to perform experiments easily in less time and cost. These experiments also generate huge amount of data that may overwhelm even the most data-savvy researchers. Data generated during experimentation give lot of scope for companies that provide products and services in the field of biotechnology and new opportunities for researchers. This huge data may create challenges to the researchers using low-throughput methods to handle and analyse data. Artificial intelligence plays prominent role in analysing huge data available in a systematic way and represent analysed data in a meaning full way. In todays time it is practically not possible to carry out research in biotechnology without utilising data available in public and private databases and artificial intelligence to analyse data. This book describes advancements and application of AI in the field of biotechnology.

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Genetherapy

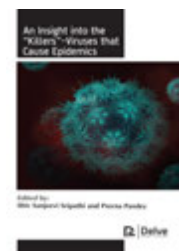
Preethi Kartan

Gene therapy is a treatment procedure, where faulty gene in the cell that is responsible for causing disease is replaced with new functional genes or faulty gene is corrected. Gene therapy is useful to treat the disease or improve body's immunity to fight disease. Gene therapy hold promising role for treating some of chronic diseases such as AIDS, cancer, diabetes etc. Some techniques used in gene therapy are Gene augmentation therapy, Gene inhibition therapy, Killing of specific cells. Currently gene therapy holds its own challenges with future prospective to improve. This book discusses applications and recent advancements in the field of gene therapy.

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An Insight into the "Killers"-Viruses that Cause Epidemics

Shiv Sanjeevi Sripathi and Prerna Pandey

While history says the earliest recorded influenza epidemic was in 1500; we have heard of epidemics throughout history: from the 1918 Spanish flu to the current 2020 COVID-19 pandemic. This book discusses the "killer" viruses in terms of their transmission, control, and prevention. Current research has also been presented to add practicality and relevance. This is one concise book that presents data on the go to get an idea of the major epidemics and the viruses behind them.

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About the Editors

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 from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E.coli & M.smegmatis. As a writer, he has authored and co-authored 25 books with Delve and Arcler International Press. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore ancient customs and traditions.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, has worked as a senior research fellow 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, as well as gene silencing using the RNA interference technology. She has published papers in peer-reviewed journals in the field and has a submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. Prerna has also completed her editing and proof-reading courses from SIEP, UK and now works as a freelance scientific editor, writer and a subject matter expert. She has edited and co-authored several books on a range of topics in Life-Sciences. When Prerna is not busy with her assignments, she loves visiting historical places.



Advancement of Phytoremediation Efficiency

Khushboo Chaudhary, Dr. Suphiya Khan

This book is aimed at presenting precise information for undergraduate, post graduate students and also very helpful to research scholars. This book has updated information's on phytoremediation management by using microbes and chelating agents, Fluoride contaminated soil affected crop productivity. It will be a milestone in the current scenario of environmental research on Fluoride pollution in groundwater, soil and its management. This book is an updated document on current research, the latest and cost-effective green technology like phytoremediation. Plants are valuable resources for all living organisms which provide food, medicine, produce oxygen and regulate the water cycle. Fluoride stress has a negative impact on the environment. Its has a direct and indirect effect on human beings and the drastic effect on crop yield. This book describes the development of cost-effective, sustainable and user-friendly technology for the farmers.

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About the Authors

Dr. Khushboo Chaudhary is presently working as a Technical officer-I in Translational Health Science and Technology Institute (THSTI) Haryana, India and having 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 award by 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.

Dr Suphiya Khan is working as a Associate Professor in the department of Bioscience and Biotechnology, Banasthali University, India. She has twelve years of teaching and research experience. Her strong background mainly relates to DNA fingerprinting, chemoprofiling, development of nano-adsorbents and Fluoride (F) phytoremediation technology. She has received various awards viz DBT-research Associateship, young scientist By ISGBRD, ICAR, recognition award for research and teaching and Indian National Academy of Sciences(INSa) international visiting scientist fellowship. She has recently selected as INSA visiting scientist for Turkey. She has been awarded as a principle investigator and co-investigator in various projects duly funded by UGC, MHRD, DST and DBT. Currently, she is handling Center of excellence on Water and Energy which is duly funded by MHRD with 2.5 crore rupees. Her work has been recognized internationally at various scientific conferences and journals. She has publishes over 30 peer reviewed articles and published two books on DNA fingerprinting and chemoprofiling. Dr Suphiya Khan's research interest focused on development of cost effective defluoridation technology for rural as well as urban people. She served as a reviewer of peer-reviewed journals in the area of DNA fingerprinting and Fluoride contamination. In addition to research, Dr Suphiya Khan is actively involved in teaching of undergraduate and post graduate students.



Genomics in Precision Medicine

Shiv Sanjeevi and Prerna Pandey

Genomics in Precision Medicine makes the people aware about the field of genomics and that of precision medicine, by taking the readers through all the details related to genomics and precision medicine. It also updates the readers about the various innovations that have taken place in the field of precision medicine and discusses the path that is to be followed further. Also discussed in the book is a review on the relation between the

precision medicine and the mutations that drive it, delving on the various computational methods and conformational principles for the detection of the factors that drive cancer. It also discusses the various genetic mutations and epigenetic modifications and goes on to explore the various benefits and harms in the research on precision medicine.

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About the Editors

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E. coli & M. smegmatis. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

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Gels: Their use in Life Sciences

Shiv Sanjeevi and Prerna Pandey

Gels in Life Sciences discusses in detail the use of gels in food, and its significance in research and medicine. Gels as supramolecular hydrocolloids are discussed in detail, followed by their use in fish industry. A chapter is dedicated to micromechanics in a fibrin gel, and subsequent chapters throw light on the different types of gel and getting a detailed understanding of Gel Electrophoresis Separation. The book also presents an enlightening perspective on staining of gels.

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About the Editors

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in E. coli & M. smegmatis. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

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Introduction to Biotechnology and Biostatistics

Khushboo Chaudhary

Introduction to Biotechnology and Biostatistics is a book which introduces the concept of biotechnology and biostatistics. Different terms such as genes, genomes and genetic engineering and recombinant DNA technology have been described in this book. This book highlights the important of genetic engineering in the human welfare and the concept of animal biotechnology as well as plant biotechnology. This book aims to discuss about the concept of industrial biotechnology, environmental biotechnology and the biosafety guidelines for the intellectual property rights and entrepreneurship development. The techniques and processes related to biotechnology have been provided in this book. This book provides insights to the readers about the concept of biostatistics and software which are used for the analysis of the data while performing research.

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About the Author

Khushboo Chaudhary is presently a Ph.D scholar in Banasthali Vidyapith (Raj) and having one year of teaching experience. Recently, she is working on phytoremediation of Fluoride. She has published seven research papers in the peer review journals of international repute and three book chapters. She has also attended several national and international conferences/ symposia/ seminars in the various fields of biotechnology and agriculture sciences and presented her research findings. Her current research includes microbiology, and soil chemistry of the plants. She has got best poster award by ISSGPU CIRG Makhdoom. She has published several gene banks in NCBI.



Genetics, Molecular Biology, Cell Biology, Ecology, and Evolution

Cheryl Natividad

Genetics, Molecular Biology, Cell Biology, Ecology, and Evolution takes the readers through the various processes in genetics and explains them the meaning, history, role and application of this field and also states its importance in the current world. It also explains the meaning of molecular biology and the various applications of molecular biology, focusing on the study that has been conducted in the subject and the future application so this field. Also discussed in the book are the topics of cell biology and the various aspect related to it and the subject of ecology and speciation, in detail, which provide deep insights to the readers on the subjects.

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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.



Biochemical Genetics

Abeer Iqbal

Biochemical Genetics discusses about the basic concept of biochemical genetics and the molecular genetics of the human. This book provides further information about the recombinant DNA technology and the prokaryotic molecular genetics. The plasticity of Genomes which is an alterable nature of the prokaryotic genomes has been described in one of the chapters in the book. The intent of this book is to describe the topics such as

Medical Genetics and Epigenetics. Insights regarding the topic of molecular diagnostics have been provided to the readers with the help of this book, in order to understand the biochemical genetics in a better and broader way.

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About the Author

Abeer Iqbal is pursuing her PhD in Biological Sciences from University of The Punjab in Pakistan. She is also MPhil in Microbiology and Molecular Genetics from University of The Punjab, Pakistan. She is passionate about writing and research related to Biological Sciences. She has been working as an academic writer and medical blogger for the past few years and enjoy every part of her job. She feels that Genetics and Biochemistry are the real essence of life and learning and unraveling new researches in these areas is really amazing !!



Mitochondrial DNA: The Works

Shiv Sanjeevi

Mitochondrial DNA: The Works takes into account the overview of mitochondria along with its dna and inheritance. It also comprises the interest aspects and glimpses of research related to the mitochondrial dna. It provides the reader with the insights of mitochondrial dna and its interesting aspects so as to understand the advances in methods for reducing mitochondrial dna disease by replacing or manipulating the mitochondrial genome, reaction of human cells in the absence of mitochondrial dna and variants of mitochondrial dna in case of obesity. This book also discusses about regulation of mitochondrial genome inheritance by autophagy and ubiquitin-proteasome system: implications for health, fitness, and fertility, advances in methods for reducing mitochondrial dna disease by replacing or manipulating the mitochondrial genome, mitochondrial dna variants in obesity and research on plants for the understanding of diseases of nuclear and mitochondrial origin.

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About the Editor

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in *E. coli* & *M. smegmatis*. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.



Utility of Microbes

Mohsen Nady

Utility of Microbes informs the readers on the various uses of several kinds of microbes that are present in the ecosystem and lists down the processes that are related to having them utilized in proper ways, by focusing on the various processes of degradation and decomposition. This book also discusses about biofertilizers and related uses, the microbes available in agricultural places, probiotic microbes, biofuels and their importance, importance of microbes in food, the application of microbes in health products and the process of biodegradation

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About the Editor

Mohsen Nady is a microbiologist at Chemipharm Pharmaceutical Industries, where he works on many activities related to pharmaceutical industry. Mohsen has more than 10 years of experience in Pharmaceutical Microbiology with a M.D. in Microbiology and a diploma in Industrial Pharmacy. Mohsen has published his thesis in a high impact journal that attracted many citations. In addition, Mohsen has earned additional certificates from top universities (Harvard, Johns Hopkins, Denmark,...etc) in diverse fields like genomic tools, R programming, Biostatistics, and Six sigma that highlighted his outstanding learning and writing skills



Enzymes Used in Food and Textile Technologies

Shiv Sanjeevi

Enzymes Used in Food and Textile Technologies takes into account different types of enzymes used in the food industries and textile industries. It also consists of enzymes from extreme environments, production and function of industrial lipases in food and agro-industries. It provides the reader with basic knowledge of enzymes so as to signify the role of certain enzymes in food and textile industries and to analyze the functions and applications of industrial lipases and fungal laccases. This book also discusses about production, function, and applications of fungal laccases in food processing, the role of microbial aspartic protease enzyme in food and beverage industries, the enzymatic decolorization of textile dyes by the immobilized polyphenol oxidase from quince leaves and microbial biotreatment of actual textile wastewater in a continuous sequential rice husk biofilter and the microbial community involved.

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Molecular Diagnostics and Infectious Diseases

Shiv Sanjeevi, Prerna Pandey and Anjali Priyadarshini

Molecular Diagnostics introduces the concept as a collection of techniques used to analyze biological markers in the genome and proteome. The book discusses in detail the various techniques of Nucleic acid-based methods, Gel based techniques and techniques related to Solid state systems. It further throws light on the applications in treating various diseases and in the food industry. Towards the end, a holistic overview of current market scenario and research is given.

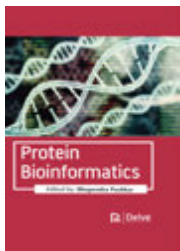
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About the Authors

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in *E. coli* & *M. smegmatis*. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

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Dr Anjali Priyadarshini currently works as an Assistant Professor in the Department of Biotechnology, SRM University, Haryana, Delhi NCR. She has done her PhD from Post Graduate Institute of Medical Education and Research, Chandigarh (PGIMER). Her teaching and research experience are in biotechnology, biomedical science, nanotechnology, bioinformatics, microbiology. Dr Anjali has published several papers in peer reviewed journals. She has also been involved in teaching in various colleges of university of Delhi.



Protein Bioinformatics

Bhupendra Pushkar

Protein Bioinformatics is a book which introduces the concept of protein bioinformatics and it covers the topics such as structure databases and biological databases in the first half of this book. This book provides a comprehensive analysis of the protein structure and further prediction in the protein structure. The aim of this book is to describe hybrid methods that have been developed in order to solve the problem related to the protein structure prediction. In second half of this book, the readers are provided with the details regarding two models such as Machine Learning Models and Mathematical Methods. The book highlights Data Mining which is done in Protein Bioinformatics so as to extract information from large datasets and further briefs about Intelligent Mining.

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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.



Established Codes of Stem Cell Biology

Shiv Sanjeevi and Prerna Pandey

Established Codes of Stem Cell Biology deals with the concept of stem cells and the codes of stem cell biology. Further, it consists of the description of molecules involved in stem cell biology and certain issues and concerns in the field of stem cell biology. It provides the reader with the fundamental notion of stem cells and the field of stem cell biology so as to understand about the development of modern techniques involved in the stem cell biology and therapeutic use of stem cell differentiation. This book also discusses about testing stem cell therapy in a rat model of inflammatory bowel disease, role of bone marrow stem cells and stem cell factor in mucosal regeneration, differentiation of human breast-milk stem cells to neural stem cells and neurons, development of new technologies for stem cell research and stem cell differentiation and therapeutic use.

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About the Editors

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Natural Products From Marine Algae

Anjanette S. Tadena

Natural Products from Marine Algae discusses the extraction of natural products from marine algae. It further comprises the biological and commercial significance of the marine algae and the chemical composition of some natural products acquired from marine algae. It provides the reader with the process of extracting natural products from marine algae so as to understand the use and application of these natural products and their developments and significance in the process of drug discovery. This book also discusses about methods of isolation of natural products from marine algae applications and uses of natural product recent advances and importance of natural products in drug discovery and bioprospecting of natural products.

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About the Author

Anjanette obtained her degree from the University of the Philippines. She is also working on her Master's Degree in Environmental Science Specializing in Environmental Toxicity. Her fascination outside work are astrophotography and traveling. She is currently working as a Research Fellow at the Bureau of Agriculture and Fisheries Standards - Department of Agriculture, Philippines.



Stem Cells: The Beginning of Regenerative Medicine

Shiv Sanjeevi and Prerna Pandey

Stem Cells: The Beginning of Regenerative Medicine deals with the significance of stem cells for the manufacture of regenerative medicines along with the techniques and approaches involved. It comprises future perspective of stem cells and tissue engineering together with the opportunities and challenges associated with it. It provides the reader with fundamental knowledge of stem cell technology in order to better understand its application in the production of regenerative medicines, the use of these regenerative medicines for kidney and to deal with the challenges associated with the application of stem cells. This book also discusses about engineered stem cell niche matrices for rotator cuff tendon regenerative engineering, application of nanomaterials in stem cell regenerative medicine of orthopedic surgery, regenerative therapeutic potential of adipose stromal cells in early stage diabetic retinopathy and cryopreserved dental pulp tissues of exfoliated deciduous teeth is a feasible stem cell resource for regenerative medicine.

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About the Editors

Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in *E. coli* & *M. smegmatis*. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, has worked as a senior research fellow 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, as well as gene silencing using the RNA interference technology. She has published papers in peer-reviewed journals in the field and has a submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. Prerna has also completed her editing and proof-reading courses from SIEP, UK and now works as a freelance scientific editor, writer and a subject matter expert. She has edited and co-authored several books on a range of topics in Life-Sciences. When Prerna is not busy with her assignments, she loves visiting historical places.



The Diversity of Amphibians and Reptiles

Manoranjan Prasad Sinha

The Diversity of Amphibians and Reptiles discusses about amphibians and ecological importance of amphibians, reptiles and relationship between amphibians and reptiles, the differences between reptiles and amphibians. It also discusses the evolution of amphibians and reptiles and the related aspects like evolution of amphibians, important characteristics of amphibians. This book also throws light on ecosystem, diversity and geographic distribution of amphibians and reptiles and it includes the related aspects like natural habitat of amphibians and reptiles, habitat loss. This book also discusses about migration of amphibians and reptiles. Also discussed in the book is diversity and distribution of amphibians, distribution of threatened species etc. The locomotion in amphibians and reptiles and its related aspects like principles of locomotion and locomotory patterns in toads, have also been discussed.

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About the Author

Prof. Manoranjan Prasad Sinha, M.Sc., (Gold medallist), Ph.D., D.Sc., FAZ, FZSI, FNEA, a Professor of Zoology is currently Vice Chancellor of S.K.M. University, Dumka (Jharkhand) and has served as Pro-Vice Chancellor of V.B.U. Hazaribag. He is a recipient of many awards like Dr. S. Radhakrishnan Education Excellence Award and Scientist of the Century Award, Award of excellence etc. by many learned academic bodies. He is Fellow and Office Bearer of many academic and learned bodies and presently Chairman of Research Advisory Committee of Central Tasar Research and Training Institute and Research Co-ordination Committee members of Central Silk Board Govt. of India. He is credited for publication of more than two hundred research papers in the reputed National and International journals. He is also chief editor of two reputed journals. Prof. Sinha has experience of handling many research projects funded by UGC & DBT, Dept. of Science and Technology, Govt. of India. Prof. Sinha has successfully supervised more than 25 Ph.D. work. The present book is the outcome of some of his findings done with his researcher scholars. He has authored a good number of books.



Introduction to Life Science

Smitha Nair

Introduction of Life Science introduces the concept of Life Sciences including the history and evolution of life sciences. This book highlights different fields in the life sciences and the basic as well as applied sciences. The first half of the book refers to the theory of life science and the spectroscopy of life science. This book covers the concept of chromatography and its principles and the concept of microscope and its significance in life sciences. There are certain measures for safety in the life science laboratory that must be taken, have been mentioned in this book. The insights related to the future aspects of life sciences have been provided to the readers with the help of this book.

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About the Editor

Dr. Smitha Nair was born in Kerala, India. She completed schooling from Doha, Qatar. She passed out as BSc. Gold medallist in Biotechnology from U.C. College, M.G. University in 2002 and further her MSc. in Biotechnology from P.S.G. College, Bharathiar University in 2004. In 2005 she worked as guest lecturer at the Department of Biotechnology, Cochin University. In 2007 she worked as lecturer at Thakur College of Arts and Science in the department of Biotechnology. In 2009 she joined as junior research fellow with Bhabha Atomic Research Centre, Mumbai. She went on to complete her PhD at the same centre in the field of phytoremediation using transgenic technologies by 2014. Currently she is attached with the Department of Biotechnology, Mumbai University working on bioremediation projects and also delivering lectures.



Silicon Biology

Shiv Sanjeevi

Silicon Biology explains in detail the role of silicon in plants and animals. It discusses the importance of silicon in biology and medicine, and how the compounds play a significant role in different types of physiological, immunological and pathological processes. Subsequent chapters throw light on the concept of microelectronics and neurons, with a detailed explanation of Computational Micromodel for Epigenetic Mechanisms and Parallel Biological Computing Model.

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Biodiversity and Biotechnology

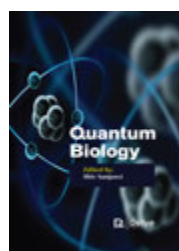
Preethi Kartan

Biodiversity and Biotechnology deals with the fundamental notion of biodiversity and the field of biotechnology. It also comprises the major impact of biotechnology on the ecosystem. This book also discusses about biotechnology and conservation of biodiversity, biodiversity in production of antibiotics, plant genetics and biotechnology in biodiversity, biotechnology for conservation of endangered plants and policies to promote conservation and sustainable use of agricultural biodiversity. It provides the reader with the knowledge of biodiversity and biotechnology along with their applications and impacts so as to get better understanding of plant genetics and application of biotechnology for the conservation of endangered plants.

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About the Author

Preethi is a postgraduate in Biotechnology from University of Leeds, UK. She is currently working as a Scientific Associate at one of the CRO's in India and her interest lie in life sciences related writing.



Quantum Biology

Shiv Sanjeevi

Quantum Biology discusses the applications of mechanics and theoretical chemistry to biological objects and the related problems. It introduces the concept of migratory patterns, followed by a detailed discussion of quantum phenomenon in biomolecules, and a formal language for molecular biology. Physical properties of biological entities are further explained to ensure a comprehensive coverage of the topic.

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Lipids in Health: Their Source, Composition, and Uses

Shiv Sanjeevi and Prerna Pandey

Lipids in Health: Their Source, Composition and Uses discusses the origin, source, composition and use of lipids in day-to-day life. It includes the role of lipids in food, mental and physical health along with the significance of lipids in treatment of certain diseases. This book also discusses about algal and vegetable oils as sustainable fish oil substitutes in rainbow trout diets, association of lipid profile with bone mineral density and bone formation in subjects with spinal cord injury, lipid droplets and mycobacterium leprae infection, herbal medicine for the treatment of obesity and ectopic fat and insulin resistance.

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Shiv Sanjeevi Sripathi secured second rank in Mumbai University and first rank in his college at his undergrad level and in his college during his Masters and has worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai, following which he was a Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore from August 2009 to November 2011. The field of work involved cloning of cell wall genes and transcription factors in *E. coli* & *M. smegmatis*. This was followed by a stint as a Research and Development Executive at Transasia Biomedicals, Mumbai where he worked on patent writing and Immunoassays from 2011 till 2013. In 2013, he entered the teaching field where he has been tutoring biology and chemistry to the students of 11th and 12th grades along with English grammar and communication skills to people of all age groups.

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COMPLETE CHECKLIST

S.no	ISBN	Title	SUBJECT AREA	YEAR	AUTHOR / EDITOR	PRICE \$	Binding
1	9781774076187	General Biology	Life Science	2021	Ashok Kumar Bishoyi, Marwadi University, Gujrat, India	160	Hardcover
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24	9781774076941	Carbohydrates in the body and functions	Life Science	2021	Shiv Sanjeevi Sripathi	160	Hardcover
25	9781774076958	Overview of blotting techniques	Life Science	2021	Shiv Sanjeevi Sripathi and Prerna Pandey	160	Hardcover
26	9781774076965	Gene silencing: approaches, applications and updates	Life Science	2021	Shiv Sanjeevi Sripathi	160	Hardcover
27	9781774076972	Camouflage	Life Science	2021	Shiv Sanjeevi Sripathi	160	Hardcover
28	9781774076989	Hygiene	Life Science	2021	Shiv Sanjeevi Sripathi and Prerna Pandey	160	Hardcover
29	9781774076163	Sustainable development: Closing the loop	Earth and Environmental Science	2021	Saket Kushwaha, Rajiv Gandhi University, India	165	Hardcover
30	9781774077023	Protein Purification	Life Science	2021	Bhupendra Pushkar, University of Mumbai, India	160	Hardcover
31	9781774077030	Protein Synthesis: Methods and Protocols	Life Science	2021	Bhupendra Pushkar, University of Mumbai, India	160	Hardcover
32	9781774077092	Plant Pigments, Flavors and Textures	Agriculture and Plant Science	2021	Shobhit Kumar Singh	160	Hardcover
33	9781774077139	Grassland Management	Agriculture and Plant Science	2021	Stephanya Lynn JonasLabee, University of Amsterdam, Netherlands	160	Hardcover
34	9781774076125	Greenhouse Design	Agriculture and Plant Science	2021	Saket Kushwaha, Rajiv Gandhi University, India	160	Hardcover
35	9781774077146	Pesticides in Crop Production	Agriculture and Plant Science	2021	Darshna Rathod, College of Agriculture, Parul University, India	160	Hardcover
36	9781774077153	Climate Change impact on Crop Productivity	Agriculture and Plant Science	2021	Kailash Ramesh Rao Malode, College of Agriculture, Parul University, India	160	Hardcover
37	9781774077214	Market based Fisheries Management	Aquaculture and Fisheries	2021	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
38	9781774077221	Soy and Soy-based Foods in Health and Nutrition	Food Science and Nutrition	2021	Oliva DSouza	160	Hardcover
39	9781774077238	Food Contamination and Safety	Food Science and Nutrition	2021	Urvashi Swami, Panjab University, India and Vijay Singh Gondil	160	Hardcover
40	9781774077245	Microbiology of Marine Food Products	Food Science and Nutrition	2021	Abeer Iqbal, University of the Punjab, Pakistan	160	Hardcover
41	9781774077368	Principles of Agronomy and Agricultural Meteorology	Agriculture and Plant Science	2021	Kailash Ramesh Rao Malode, College of Agriculture, Parul University, India	160	Hardcover
42	9781774077375	Production Technology of Vegetables and Flowers	Agriculture and Plant Science	2021	Nekesah T. Wafullah, University of Nairobi, Kenya	160	Hardcover
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44	9781774077399	Crop Pests and Stored Grain Pests and their Management	Agriculture and Plant Science	2021	Nekesah T. Wafullah, University of Nairobi, Kenya	160	Hardcover
45	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
46	9781774077511	Vol 1: Introduction to Environmental Management	Earth and Environmental Science	2021	Vierah Hulley, University of the Free State, South Africa	165	Hardcover
47	9781774077528	Vol 2: Waste Management	Earth and Environmental Science	2021	Vierah Hulley, University of the Free State, South Africa	165	Hardcover
48	9781774077535	Vol 3: Environmental Disaster Management	Earth and Environmental Science	2021	Vierah Hulley, University of the Free State, South Africa	165	Hardcover
49	9781774077542	Vol 4: Environment and Technology	Earth and Environmental Science	2021	Vierah Hulley, University of the Free State, South Africa	165	Hardcover
50	9781774077559	Vol 5: Environmental Laws	Earth and Environmental Science	2021	Vierah Hulley, University of the Free State, South Africa	165	Hardcover
51	9781774077566	Encyclopedia of Insects and their Diversity (set of 3 volumes)	Life Science	2021	Laichattiwar Mukesh Anandrao, Vasantnao Naik Marathwada Krishi Vidyapeeth, India	480	Hardcover
52	9781774077573	Vol 1: Introduction to Insects and their Diversity	Life Science	2021	Laichattiwar Mukesh Anandrao, Vasantnao Naik Marathwada Krishi Vidyapeeth, India	160	Hardcover
53	9781774077580	Vol 2: Insects' Habitats	Life Science	2021	Laichattiwar Mukesh Anandrao, Vasantnao Naik Marathwada Krishi Vidyapeeth, India	160	Hardcover
54	9781774077597	Vol 3: Conservation and Restoration of Insect Population	Life Science	2021	Laichattiwar Mukesh Anandrao, Vasantnao Naik Marathwada Krishi Vidyapeeth, India	160	Hardcover
55	9781774077603	Principles and Advances in Human Genetics: A Primer on Genetic Disorders	Life Science	2021	Cheryl Natividad, University of the Philippines Los Baños, Philippines	160	Hardcover
56	9781774077658	Handbook of Agricultural Entomology	Agriculture and Plant Science	2021	Laichattiwar Mukesh Anandrao, Vasantnao Naik Marathwada Krishi Vidyapeeth, India	160	Hardcover
57	9781774076149	Byproducts from Agriculture and Fisheries: A Journey of Converting Waste to Wealth	Aquaculture and Fisheries	2021	Saket Kushwaha, Rajiv Gandhi University, India	160	Hardcover
58	9781774077832	Veterinary Entomology	Animal and Veterinary Science	2021	Patricia Marques, University of Maryland Baltimore, USA	175	Hardcover
59	9781774077849	Veterinary Bacteriology	Animal and Veterinary Science	2021	Patricia Marques, University of Maryland Baltimore, USA	175	Hardcover
60	9781774077856	Artificial Intelligence in Biotechnology	Life Science	2021	Preethi Kartan, University of Leeds, UK	160	Hardcover
61	9781774077863	Advancement in the Cancer treatment	Life Science	2021	Preethi Kartan, University of Leeds, UK	160	Hardcover
62	9781774077870	Genetherapy	Life Science	2021	Preethi Kartan, University of Leeds, UK	160	Hardcover
63	9781774077900	Agricultural Wastewater Treatment	Agriculture and Plant Science	2021	Akansha Singh, College of Agriculture, Parul University, India	160	Hardcover
64	9781774077979	Seaweeds for Food and Industrial Applications	Aquaculture and Fisheries	2021	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover

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65	9781774077986	Wildlife conservation and management	Life Science	2021	Ashok Kumar Bishoyi, Marwadi University, Gujrat, India	160	Hardcover
66	9781774077993	Marine Microalgal ecology	Aquaculture and Fisheries	2021	Anjanette S. Tadena, Department of Agriculture, Philippines	160	Hardcover
67	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
68	9781774078013	Vol 1: Introduction to Ethnobotany	Agriculture and Plant Science	2021	Akansha Singh, College of Agriculture, Parul University, India and Mohammad Waseemul Islam, Ajman University, Ajman, UAE	160	Hardcover
69	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
70	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
71	9781774077894	Horticultural crops breeding	Agriculture and Plant Science	2021	Kiran Raj and Amit Kanawjia	160	Hardcover
72	9781774078051	An insight into the "killers"-viruses that cause epidemics	Life Science	2021	Shiv Sanjeevi Sripathi and Prerna Pandey	160	Hardcover
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78	9781774071687	Geomicrobiology	Earth and Environmental Science	2020	Urvashi Swami, Panjab University, India and Vijay Singh Gondil, Department of Microbiology, Panjab University, India	165	Hardcover
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84	9781774071793	Molecular diagnostics and infectious diseases	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai India, Prerna Pandey, Banasthali University, India and Anjali Priyadarshini	160	Hardcover
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88	9781774072028	Climate Change and Challenges in Rural Livelihoods	Earth and Environmental Science	2020	Stephanya Lynn JonasLabee, University of Amsterdam, Netherlands	165	Hardcover
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91	9781774072110	Climate Change and Flood Risk Management	Earth and Environmental Science	2020	Tanjina Nur, University of Technology Sydney, Australia	165	Hardcover
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99	9781774072257	Earth Systems and Environment	Earth and Environmental Science	2020	Amrita Pandey, School of Planning and Architecture, Delhi, India	165	Hardcover
100	9781774072264	Atmospheric Thermodynamics	Earth and Environmental Science	2020	Tanjina Nur, University of Technology Sydney, Australia	165	Hardcover
101	9781774072288	Established codes of stem cell biology	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
102	9781774072295	Stem cells: the beginning of regenerative medicine	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
103	9781774072318	Genetics, Molecular Biology, Cell Biology, Ecology, and Evolution	Life Sciences	2020	Cheryl Natividad, University of the Philippines Los Baños, Philippines	160	Hardcover
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105	9781773614915	Environmental Management in Construction Projects	Earth and Environmental Science	2020	Nseabasi Ikput, Liverpool Hope University, UK	165	Hardcover
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110	9781774072417	Food Production and Agriculture	Agriculture	2020	Patrícia Alexandra Batista Branco, Higher Institute of Agronomy, Lisbon, Portugal	160	Hardcover
111	9781774072424	Global Warming and Agriculture	Agriculture	2020	Stephanya Lynn JonasLabee, University of Amsterdam, Netherlands	160	Hardcover
112	9781774072431	The Diversity of Amphibians and Reptiles	Life Sciences	2020	Manoranjan Prasad Sinha, S.K.M. University, India	160	Hardcover
113	9781774072448	Fish and wildlife ecology and biology	Aquaculture and Fisheries	2020	Anjanette S. Tadena, Department of Agriculture, Philippines	160	Hardcover
114	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
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116	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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118	9781774072585	Environmental Neurotoxicology	Earth and Environmental Science	2020	Urvashi Swami, Panjab University, India	165	Hardcover
119	9781774072592	Tropical Food Science	Food Science	2020	Cristina García Jaime, Granada University, Spain	95	Hardcover
120	9781774072738	Renewable Resources and Global Challenges	Earth and Environmental Science	2020	Mohit Chhabra, University of Colorado Boulder, USA	165	Hardcover
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122	9781774072790	Urban Agriculture and Rural Agriculture: The International Market	Agriculture	2020	Stephanya Lynn JonasLabee, University of Amsterdam, Netherlands	160	Hardcover
123	9781774072820	Advancement in Soil Microbiology	Agriculture	2020	Preethi Kartan, University of Leeds, UK	160	Hardcover
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126	9781774072868	Food Security and Crop Yield	Agriculture	2020	Akansha Singh, College of Agriculture, Parul University, India	160	Hardcover

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128	9781774072905	Ensuring Global Food Safety: Exploring Global Harmonization	Agriculture	2020	Oliva DSouza	160	Hardcover
129	9781774072912	Proteomics in Food Science	Food Science	2020	Abeer Iqbal, University of The Punjab, Pakistan	160	Hardcover
130	9781774072929	Marine Ecosystem: Changing Scenario and Sustainability	Aquaculture and Fisheries	2020	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
131	9781774072936	Mineral Resources and Sustainability Assessment	Earth and Environmental Science	2020	Vierah Hulley, University of the Free State, South Africa	165	Hardcover
132	9781774072950	Plant Nutrition and Food Security	Agriculture	2020	Mohammad Waseemul Islam, Ajman University, Ajman, UAE	160	Hardcover
133	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
134	9781774073094	Introduction to Life Science	Life Sciences	2020	Smitha Nair, Mumbai University, India	95	Hardcover
135	9781774073247	World Regional Geography	Earth and Environmental Science	2020	Amrita Pandey, School of Planning and Architecture, Delhi, India	165	Hardcover
136	9781774073254	Applied Human Geography	Earth and Environmental Science	2020	Rodolfo B. Valdenarro, Laguna State Polytechnic University, Philippines	165	Hardcover
137	9781774073285	Principles of Animal Growth and Development	Animal and Veterinary Science	2020	Patricia Marques, University of Maryland Baltimore, USA	160	Hardcover
138	9781774073346	Veterinary Toxicology	Animal and Veterinary Science	2020	Patricia Marques, University of Maryland Baltimore, USA	160	Hardcover
139	9781774073377	Quantum Biology	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India	160	Hardcover
140	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
141	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
142	9781774073414	Silicon Biology	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India	160	Hardcover
143	9781774073421	Gels: their use in life sciences	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
144	9781774073445	Genomics in precision medicine	Life Sciences	2020	Shiv Sanjeevi, Vaze College, Mumbai, India and Prerna Pandey, Banasthali University, India	160	Hardcover
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148	9781773612768	Geriatric Nutrition	Food Science	2020	Sara Diana Garduno Diaz, University of Leeds, UK	160	Hardcover
149	9781774073667	Introduction to Biotechnology and Biostatistics	Life Sciences	2020	Khushboo Chaudhary, Banasthali University, India	160	Hardcover
150	9781774073674	Sustainability assessment and renewable based technology	Earth and Environmental Science	2020	Elisa Gomez Gonzalez, Universidad San Pablo, Spain	165	Hardcover
151	9781774073728	Information Technology in agriculture	Agriculture	2020	Hazem Shawky Fouda, Alexandria University, Egypt	160	Hardcover
152	9781773613413	Disaster Management Of Earthquakes & Volcanoes	Earth and Environmental Science	2019	Judith Rosales, University of Birmingham, UK	165	Hardcover
153	9781773613628	Glaciology and Glacial Geomorphology	Earth and Environmental Science	2019	Navodita Bhatnagar, Institute of Technology, Carlow Ireland	165	Hardcover
154	9781773613635	Geochemistry, Geophysics, Geosystems	Earth and Environmental Science	2019	Navodita Bhatnagar, Institute of Technology, Carlow Ireland	165	Hardcover
155	9781773613642	Push Button Agriculture	Agriculture	2019	Hazem Fouda, Alexandria University, Egypt	165	Hardcover
156	9781773613666	Geocryology	Earth and Environmental Science	2019	Solange Uwera, The University of Manchester, UK	165	Hardcover
157	9781773613673	Agricultural Science and Food Security	Agriculture	2019	NEKESAH T. WAFULLAH, University of Nairobi, Kenya	165	Hardcover
158	9781773613680	Ecological Genomics	Life Sciences	2019	U. S. Raghavender, Indian Institute of Science, Bangalore, India	165	Hardcover
159	9781773613697	Rapid methods in Food Microbiology	Food Science	2019	Chenggui Sun, University of Waterloo, Waterloo, ON	165	Hardcover
160	9781773613710	Cellular Therapy	Life Sciences	2019	Shraddha Gautam, Anjali Priyadarshini and Prerna Pandey, Banasthali University, India	165	Hardcover
161	9781773613727	Medicinal Plants Biotechnology	Agriculture	2019	DR. ZEB SADDIQE, Lahore College for Women University, Lahore, Pakistan	165	Hardcover
162	9781773613826	Agricultural Biotechnology	Agriculture	2019	ARIT OKON EFRETUEI, University of Reading, UK	165	Hardcover
163	9781773613833	Artificial Insemination of Farm Animals	Animal and Veterinary Science	2019	Stephen Rego, Forsyth Technical Community College., USA	165	Hardcover
164	9781773613871	GTPasses in Cellular Signalling	Life Sciences	2019	Prerna Pandey, Banasthali University, India and Shiv Sanjeevi, Vaze College, Mumbai, India	165	Hardcover
165	9781773615714	Recent Advances in Plant in Vitro Culture	Agriculture	2019	Rabia Iftikhar, Lahore University of Management Sciences, Pakistan	165	Hardcover
166	9781773613888	Flow Cytometry and Cell Sorting	Life Sciences	2019	Prerna Pandey, Banasthali University, India and Shiv Sanjeevi, Vaze College, Mumvai India	165	Hardcover
167	9781773613895	Principles of Molecular Virology	Life Sciences	2019	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover

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169	9781773613932	Handbook of Minerals and Nutrients	Food Science	2019	Roksana Khalid, McMaster University, Canada	175	Hardcover
170	9781773613949	Biocomputation and Biomedical Informatics	Life Sciences	2019	U. S. Raghavender, Indian Institute of Science, Bangalore, India	165	Hardcover
171	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
172	9781773613963	Molecular Toxicology	Life Sciences	2019	Elena Ostrakhovitch, Russian Academy of science, Russia	165	Hardcover
173	9781773614007	Sustainability in the Food Industry	Food Science	2019	Cristina García Jaime, Granada University, Spain	165	Hardcover
174	9781773614076	Fishery Products: Quality and Safety	Aquaculture and Fisheries	2019	ANJANETTE S. TADENA, Department of Agriculture, Philippines	160	Hardcover
175	9781773614083	Environmental Applications of Remote Sensing	Earth and Environmental Science	2019	Solange Uwera, The University of Manchester, UK	165	Hardcover
176	9781773614090	Industrial Waste Management	Earth and Environmental Science	2019	Rose Marie O. Mendoza, University of Philippines, Philippines	165	Hardcover
177	9781773614106	Climate Change Adaptation	Earth and Environmental Science	2019	Judith Rosales, University of Birmingham, UK	165	Hardcover
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183	9781773614410	Agricultural Entrepreneurship	Agriculture	2019	NEKESAH T. WAFULLAH, University of Nairobi, Kenya	165	Hardcover
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187	9781773614465	Cotton Pest Management	Agriculture	2019	Hazem Fouda, Alexandria University, Egypt	165	Hardcover
188	9781773611921	Remote sensing in Biology: An overview	Life Sciences	2019	Prerna Pandey, Banasthali University, India and Shiv Sanjeevi, Vaze College, Mumvai India	165	Hardcover
189	9781773614564	Food Industry: Processes and Technologies	Food Science	2019	Patrícia Alexandra Batista Branco, Higher Institute of Agronomy, Lisbon, Portugal	165	Hardcover

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191	9781773614588	Ancient Food Technology	Food Science	2019	MERLY FISCAL-ARJONA, Laguna State Polytechnic University, Philippines	165	Hardcover
192	9781773614595	Food Safety: Contaminants and Toxins	Food Science	2019	MERLY FISCAL-ARJONA, Laguna State Polytechnic University, Philippines	165	Hardcover
193	9781773610351	Genetically Modified Organisms in Food Production	Life Sciences	2019	UMAIYAL MUNUSAMY, Institute of Plantation Studies UPM, Malaysia	165	Hardcover
194	9781773610573	Fungi and their Utilizations	Life Sciences	2019	Rabia Iftikhar, Lahore University of Management Sciences, Pakistan	165	Hardcover
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196	9781773611518	Plant Biomass Utilization in Nature: Agriculture and Industry	Agriculture	2019	Ghazala Yaqub, Kinnaird College for Women, Paskistan	165	Hardcover
197	9781773611594	Proteogenomics	Life Sciences	2019	Mohamed A. Selmy, Suez Canal University, Egypt	165	Hardcover
198	9781773612003	Pest Resistant Plants	Agriculture	2019	Dr. MUHAMMAD AKHLAS, School of Environmental Science, University of East Anglia, Norwich, UK	165	Hardcover
199	9781773612454	Marine Mammal Biology: An Evolutionary Approach	Aquaculture and Fisheries	2019	POOJA PANDYA, Nirma University, India	160	Hardcover
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201	9781773612775	Food Lipids: Chemistry, Nutrition and Biotechnology	Food Science	2019	SARA DIANA GARDUÑO DIAZ, University of Leeds, UK	165	Hardcover
202	9781773612836	Precision Agriculture and the Future of Farming	Agriculture	2019	Annie Bobby Zachariah, Allahabad Agricultural Institute, India	165	Hardcover
203	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
204	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
205	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
206	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
207	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
208	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

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209	9781773613130	Encyclopedia of Environmental Science Vol 6: Social Aspects of Water Management	Earth and Environmental Science	2019	Shaline Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
210	9781773613147	Encyclopedia of Environmental Science Vol 7: Environmental Economics	Earth and Environmental Science	2019	Shaline Naidoo, The University of KwaZulu-Natal, South Africa	165	Hardcover
211	9781773614731	Gene Editing: An Update	Life Sciences	2019	Prerna Pandey, Banasthali University, India and Shiv Sanjeevi, Vaze College, Mumvai India	165	Hardcover
212	9781773614748	Natural Additives in Fish Processing	Aquaculture and Fisheries	2019	Dr. Viji Pankyamma and Prerna Pandey, Banasthali University, India	165	Hardcover
213	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
214	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
215	9781773612799	Ecological Boundary Interactions	Earth and Environmental Science	2019	Quan Cui, Beijing Normal University, China	165	Hardcover
216	9781773614847	Signal Transduction in Cancer	Life Sciences	2019	Mohamed A. Selmy, Suez Canal University, Egypt	165	Hardcover
217	9781773614922	Plant Breeding from Laboratories to Fields	Agriculture	2019	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
218	9781773614939	Alternative Crops and Cropping Systems	Agriculture	2019	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
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225	9781773615134	Oxidative Stress: Environmental Induction and Dietary Antioxidants	Life Sciences	2019	Jaspreet Banga, Rutgers Cancer Centre, USA	165	Hardcover
226	9781773615141	Cellular signaling and phosphoproteomics	Life Sciences	2019	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover
227	9781773615158	Advances in structure of membrane proteins	Life Sciences	2019	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover

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229	9781773615226	Antimicrobial Resistance	Life Sciences	2019	Valeria Severino, Second University of Naples, Italy	165	Hardcover
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232	9781773615257	Emerging Technology for Diagnostic Microbiology	Life Sciences	2019	Vikas Mishra, University of British Columbia, Canada	165	Hardcover
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234	9781773615271	Genetic Engineering: Principles and advancements	Life Sciences	2019	Vikas Mishra, University of British Columbia, Canada	165	Hardcover
235	9781773615295	Principles of Epigenetics	Life Sciences	2019	Vikas Mishra, University of British Columbia, Canada	165	Hardcover
236	9781773615301	Veterinary Mycology	Life Sciences	2019	Patricia Marques, University of Maryland Baltimore, USA	165	Hardcover
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240	9781773615370	Redox biology and cellular metabolism	Life Sciences	2019	Stephen Rego, Forsyth Technical Community College., USA	165	Hardcover
241	9781773615523	Sex Control in Aquaculture	Aquaculture and Fisheries	2019	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
242	9781773615530	Aquaculture and the Environment	Aquaculture and Fisheries	2019	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
243	9781773611983	Sex differentiation in Fishes	Aquaculture and Fisheries	2019	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	160	Hardcover
244	9781773615585	Ecology and Management of Forest Soils	Agriculture	2019	Carlos Tello Lecal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	165	Hardcover
245	9781773615677	Trends and Advances in Veterinary Genetics	Animal and Veterinary Science	2019	Cheryl Natividad, University of the Philippines Los Baños, Philippines	160	Hardcover
246	9781773615684	Encyclopedia of Primatology	Life Sciences	2019	Manoranjan Prasad Sinha, S.K.M. University, India	180	Hardcover
247	9781773615707	Soilless Farming: The New Trend of Farming	Agriculture	2019	Annie Bobby Zachariah, Allahabad Agricultural Institute, India	165	Hardcover
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249	9781773610078	Water Security	Earth and Environmental Science	2018	Judith Rosales, University of Birmingham, UK	155	Hardcover
250	9781773610191	Food Quality Control: Methods, Importance and Latest Measures	Food Science	2018	Cristina García Jaime, Granada University, Spain	160	Hardcover
251	9781773610290	Recent Discoveries in Human Genome Organization	Life Sciences	2018	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover
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253	9781773610313	Nanomedicine and Nanotechnology: Possibilities and Challenges	Life Sciences	2018	Aleksei Anatoliyovych Stepanenko, Institute of Molecular Biology and Genetics, Ukraine	165	Hardcover
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256	9781773610344	Pesticides and Their Effects on Biological Organisms	Agriculture	2018	Levitah Castil Mapatac, University in Science and Technology of Southern Philippines, Philippines	160	Hardcover
257	9781773610375	Shrimp Farming: Challenges and Current Situation	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	155	Hardcover
258	9781773610382	Marine Fish Farming	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
259	9781773610399	Seaweed Cultivation	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
260	9781773610405	Cultivation of Microalgae	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
261	9781773610412	Aquaculture and Genetic Improvement	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	190	Hardcover
262	9781773610429	Ecology and Management of Aquatic Environments	Aquaculture and Fisheries	2018	Bruno Augusto Amato Borges, Federal University of Santa Catarina, Brazil	210	Hardcover
263	9781773610436	Regulation of Cation Homeostasis in Plants	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	210	Hardcover
264	9781773610443	Signalling Pathways in Abiotic Stress	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	160	Hardcover
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267	9781773610474	Regulation of Water Balance in Plants	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	200	Hardcover
268	9781773610481	RNA silencing in plants	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	160	Hardcover
269	9781773610498	Photosynthesis and Plant Light Requirements	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	210	Hardcover
270	9781773610504	Comparative Growth of Mammalian, Insect and Plant Cells	Agriculture	2018	Carlos Tello Lacal, Zürcher Hochschule für Angewandte Wissenschaften., Switzerland	210	Hardcover
271	9781773610566	Microorganisms and their Utilizations	Life Sciences	2018	Mazhar Rafique, Quaid-i-Azam University, Pakistan	160	Hardcover
272	9781773610580	Tools and Techniques in Biology	Life Sciences	2018	UMAIYAL MUNUSAMY, Institute of Plantation Studies UPM, Malaysia	160	Hardcover
273	9781773610627	Metabolomics	Life Sciences	2018	Shiv Sanjeevi, Vaze College, Mumvai India and Prerna Pandey, Banasthali University, India	165	Hardcover
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275	9781773610818	Toxicogenomics	Earth and Environmental Science	2018	Mohamed A. Selmy, Suez Canal University, Egypt	160	Hardcover
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278	9781773610856	Coarse-Grained Molecular Dynamics	Life Sciences	2018	Maria Emilova Velinova, University of Sofia, Bulgaria	160	Hardcover
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286	9781773611105	Next Generation Sequencing & Applications	Life Sciences	2018	Preethi Kartan, University of Leeds, UK	165	Hardcover
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289	9781773611136	Hydrologic Modeling	Engineering and Technology	2018	Quan Cui, Beijing Normal University, China	160	Hardcover
290	9781773611143	Carbon Management	Earth and Environmental Science	2018	Quan Cui, Beijing Normal University, China	160	Hardcover
291	9781773611167	Geographic Information Systems in Environment Management	Earth and Environmental Science	2018	Quan Cui, Beijing Normal University, China	160	Hardcover
292	9781773611174	Environmental Accounting	Earth and Environmental Science	2018	Quan Cui, Beijing Normal University, China	160	Hardcover
293	9781773611181	Wetland Ecosystems	Earth and Environmental Science	2018	Quan Cui, Beijing Normal University, China	160	Hardcover
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296	9781773611211	Plant Host Parasite Relationship	Agriculture	2018	Sarika Garg, University of Saskatchewan, Canada	160	Hardcover
297	9781773611228	Current Scenario in Biofuels Production	Engineering and Technology	2018	Sarika Garg, University of Saskatchewan, Canada	160	Hardcover
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299	9781773611471	RNAi Technologies	Life Sciences	2018	Prerna Pandey, Banasthali University, India	160	Hardcover
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311	9781773611730	Human Microbiota and Microbiome	Life Sciences	2018	Patricia Marques, University of Maryland Baltimore, USA	160	Hardcover
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323	9781773611914	Bacterial Growth and Division	Life Sciences	2018	Deepak Anand, Max-Planck Institute for Terrestrial Microbiology, Marburg, Germany and Prerna Pandey, Banasthali University, India	160	Hardcover
324	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
325	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
326	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
327	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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331	9781773612027	Micro- and Nanosystems for Biotechnology	Life Sciences	2018	Abhishek Gupta, All India Institute of Medical Sciences (AIIMS), New Delhi India	160	Hardcover
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341	9781773612539	Biofertilizers and Biofungicides	Life Sciences	2018	Ghazala Yaqub, Kinnaird College for Women, Lahore Pakistan and Amber Fatima, University of the Punjab, Pakistan	160	Hardcover
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370	9781680958980	Fungal Pathogenesis in Plants and Crops: Molecular Biology and Host Defense	Agriculture and Life Sciences	2017	Carlos Tello Lacal, Ph.D	170	Hardcover
371	9781680957433	Plant Response to Air Pollution	Agriculture and Life Sciences	2017	Dr. Nisha Dahiya, Ph.D.	170	Hardcover
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