



# Welcome

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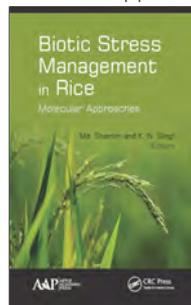
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## Biotic Stress Management in Rice

Molecular Approaches



Edited by **Md. Shamim**, Bihar Agricultural University, Sabour, India and **K.N. Singh**, Narendra Deva University of Agriculture and Technology, Kumaranj, Faizabad, India

This book addresses biotic stress of rice and its management through molecular approaches. It focuses on the biotechnological aspects of rice with the aim of reducing the fungicide and insecticides and ultimately ensuring safety of rice as a food as well as the environment. The book provides an understanding of the genetic basis of resistance and susceptibility and goes on to present studies directed to understand the host-plant interaction in rice that have given rise to specialized breeding programs for resistance to diseases and insect-pests.

Apple Academic Press

**Market:** Agriculture

June 2017: 235 x 156: 408pp

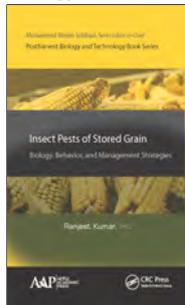
Hb: 978-1-771-88525-6: **£114.00**

eBook: 978-1-315-36553-4

\* For full contents and more information, visit: [www.crcpress.com/9781771885256](http://www.crcpress.com/9781771885256)

## Insect Pests of Stored Grain

Biology, Behavior, and Management Strategies



Edited by **Ranjeet Kumar**, Bihar Agricultural University, Sabour, Bhagalpur, Bihar, India

*Series: Postharvest Biology and Technology*

This book, *Insect Pests of Stored Grain: Biology, Behavior, and Management Strategies*, provides comprehensive coverage of stored product entomology for the sustainable management of insects and other noninsect pests, such as mites, birds, rodents, and fungi, with the aim to mitigate and eliminate these losses of food from grains. The author, who has studied sustainable and herbal management of stored grain and seed insect pests in his research, considers sustainable management of stored grain insect pests and eco-friendly approaches along with the utilization of waste materials.

Apple Academic Press

**Market:** Agriculture

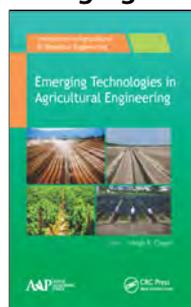
June 2017: 229 x 152: 394pp

Hb: 978-1-771-88503-4: **£99.00**

eBook: 978-1-771-88504-1

\* For full contents and more information, visit: [www.crcpress.com/9781771885034](http://www.crcpress.com/9781771885034)

## Emerging Technologies in Agricultural Engineering



Edited by **Megh R. Goyal**, Point Pleasant, New Jersey, USA  
*Series: Innovations in Agricultural & Biological Engineering*

This book covers an array of issues on emerging agricultural engineering and technology, featuring new research and studies. The volume is broken into three parts: emerging technologies, energy management in agriculture, and management of natural resources, in which particular attention is paid to water management, a necessary consideration for successful crop production, especially in water-scarce regions. Topics include alleviating drainage congestion, solar energy for agriculture, anaerobic digestion by inoculation with compost, self-propelled inter-cultivators, agrobiodiversity, and watershed development and management.

Apple Academic Press

**Market:** Agriculture

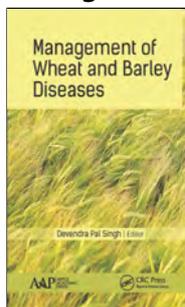
August 2017: 235 x 156: 396pp

Hb: 978-1-771-88340-5: **£99.00**

eBook: 978-1-315-36636-4

\* For full contents and more information, visit: [www.crcpress.com/9781771883405](http://www.crcpress.com/9781771883405)

## Management of Wheat and Barley Diseases



Edited by **Devendra Pal Singh**, Point Pleasant, New Jersey, USA

This new volume, *Management of Wheat and Barley Diseases*, presents the latest literature on management technology of diseases that affect the production of wheat and are capable of reducing grain yields as well as grain quality. These diseases include rusts, smuts, other foliar diseases such as blight, spots, blotch, powdery mildew, bunts etc., as well as diseases such as Karnal bunt of wheat, which is of importance in international trade. This valuable volume explores a multitude of new approaches and techniques for the effective management of emerging wheat diseases.

Apple Academic Press

**Market:** Agriculture

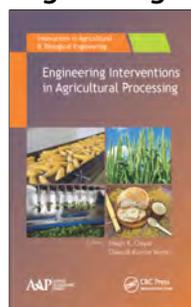
October 2017: 229 x 152: 656pp

Hb: 978-1-771-88546-1: **£114.00**

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\* For full contents and more information, visit: [www.crcpress.com/9781771885461](http://www.crcpress.com/9781771885461)

## Engineering Interventions in Agricultural Processing



Edited by **Megh R. Goyal**, Point Pleasant, New Jersey, USA and **Deepak Kumar Verma**, Indian Institute of Technology, West Bengal, India  
*Series: Innovations in Agricultural & Biological Engineering*

*Engineering Interventions in Agricultural Processing* presents recent advanced research on biological engineering, bioprocessing technologies, and their applications in agricultural food processing, and their applications in agriculture science and agricultural engineering, focusing on biological science, biological engineering, and bioprocessing technology. With contributions from a broad range of leading researchers, this book presents several innovations in the areas of processing technologies in agriculture.

Apple Academic Press

**Market:** Agriculture

November 2017: 229 x 152: 326pp

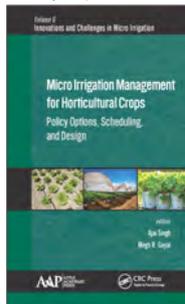
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\* For full contents and more information, visit: [www.crcpress.com/9781771885560](http://www.crcpress.com/9781771885560)

## Micro Irrigation Engineering for Horticultural Crops

Policy Options, Scheduling, and Design



Edited by **Megh R. Goyal**, Point Pleasant, New Jersey, USA and **Ajai Singh**, Central University of Jharkhand, India

*Series: Innovations and Challenges in Micro Irrigation*

This book presents a variety of policy adoption methods, irrigation scheduling, and design procedures in micro irrigation engineering for horticultural crops. The chapters range from policy interventions to applications of systems for different crops and under different land conditions.

Apple Academic Press

**Market:** Agriculture

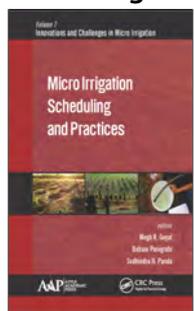
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Hb: 978-1-771-88540-9: **£95.00**

eBook: 978-1-771-88541-6

\* For full contents and more information, visit: [www.crcpress.com/9781771885409](http://www.crcpress.com/9781771885409)

## Micro Irrigation Scheduling and Practices



Edited by **Megh R. Goyal**, Point Pleasant, New Jersey, USA, **Balram Panigrahi**, Orissa University of Agriculture and Technology, Bhubaneswar, India and **Sudhindra N. Panda**, National Institute of Technical Teachers Training and Research (NITTTR), Chennai, India  
*Series: Innovations and Challenges in Micro Irrigation*

This new book presents some of the latest information and research on micro irrigation and covers the area of performance, practices, and design, focusing particularly on the performance of vegetable, fruit and row crops in conjunction with different scheduling and practices. Irrigation scheduling is an important water management strategy, and this book addresses scheduling methods and issues. Design aspects of micro irrigation systems have also been discussed in the book.

Apple Academic Press

**Market:** Agriculture

August 2017: 229 x 152: 384pp

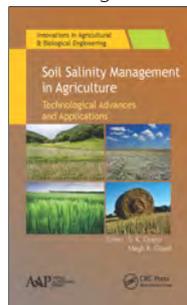
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eBook: 978-1-771-88553-9

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## Soil Salinity Management in Agriculture

Technological Advances and Applications



Edited by **S. K. Gupta**, Central Soil Salinity Research Institute, Karnal, India and **Megh R. Goyal**, Point Pleasant, New Jersey, USA

*Series: Innovations in Agricultural & Biological Engineering*

This important volume, Soil Salinity Management in Agriculture, addresses the crucial issue of soil salinity of potential farmland and provides a comprehensive picture of the saline environment and plant interactions, along with management and reclamation methods and policies. With contributions from researchers from the fields of agricultural chemistry, soil science, biotechnology, agronomy, environmental sciences, and plant breeding and genetics, the volume emphasizes a multidisciplinary approach.

Apple Academic Press

**Market:** Agriculture

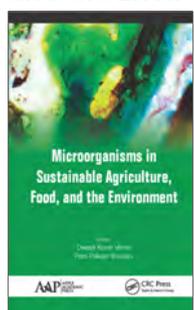
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\* For full contents and more information, visit: [www.crcpress.com/9781771884433](http://www.crcpress.com/9781771884433)

## Microorganisms in Sustainable Agriculture, Food, and the Environment



Edited by **Deepak Kumar Verma**, Indian Institute of Technology, West Bengal, India and **Prem Prakash Srivastav**, Indian Institute of Technology, Kharagpur, India

In agricultural education and research, the study of agricultural microbiology has undergone tremendous changes in the past few decades, leading to today's scientific farming that is a backbone of economy all over the globe. Microorganisms in Sustainable Agriculture, Food, and the Environment fills the need for a comprehensive volume on recent advances and innovations in microbiology. The book is divided into four main parts: food microbiology; soil microbiology; environmental microbiology, and industrial microbiology and microbial biotechnology.

Apple Academic Press

**Market:** Agriculture

August 2017: 235 x 156: 430pp

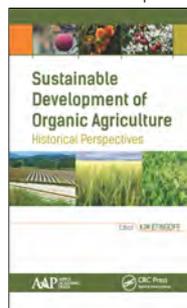
Hb: 978-1-771-88479-2: **£99.00**

eBook: 978-1-771-88480-8

\* For full contents and more information, visit: [www.crcpress.com/9781771884792](http://www.crcpress.com/9781771884792)

## Sustainable Development of Organic Agriculture

Historical Perspectives



Edited by **Kimberly Etingoff**, Point Pleasant, New Jersey, USA

This title includes a number of Open Access chapters.

This important compilation presents an in-depth view spanning past values and practices, present understandings, and potential futures, and covering a range of concrete case studies on sustainable development of organic agriculture. The book explores the very different facets of organic and sustainable agriculture.

Apple Academic Press

**Market:** Agriculture

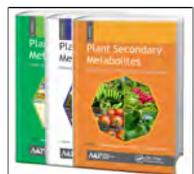
December 2016: 229 x 152: 336pp

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eBook: 978-1-315-36580-0

\* For full contents and more information, visit: [www.crcpress.com/9781771884839](http://www.crcpress.com/9781771884839)

## Plant Secondary Metabolites, Three-Volume Set



Edited by **Mohammed Wasim Siddiqui**, Bihar Agricultural University, Sabour, India, **Kamlesh Prasad**, Point Pleasant, New Jersey, USA and **Vasudha Bansal**, Hanyang University in Seoul, South Korea

Plant secondary metabolites are organic compounds that aid in the growth and development of plants but are not required for the plant to survive by fighting off herbivores, pests, and pathogens. These plant secondary metabolites have been used

since early times in various medicines and food products for beneficial health purposes and are still relevant and popular today. This new three-volume Plant Secondary Metabolites provides an abundance of valuable information on secondary metabolites, their health properties and possibilities, and their extraction and application methods.

Apple Academic Press

**Market:** Herbal Medicine

December 2016: 235 x 156: 908pp

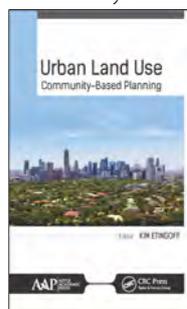
Hb: 978-1-771-88358-0: **£286.00**

eBook: 978-1-315-20750-6

\* For full contents and more information, visit: [www.crcpress.com/9781771883580](http://www.crcpress.com/9781771883580)

## Urban Land Use

Community-Based Planning



Edited by **Kimberly Etingoff**, Point Pleasant, New Jersey, USA

This title includes a number of Open Access chapters.

This compendium volume, Urban Land Use: Community-Based Planning, covers a range of land use planning and community engagement issues. Part I explores the connections between land use decisions and consequences for urban residents, particularly in the areas of health and health equity. The chapters in Part II provide a closer look at community land use planning practice in several case studies. Part III offers several practical and innovative tools for integrating community decisions into land use planning.

Apple Academic Press

**Market:** Civil Engineering

December 2016: 229 x 152: 328pp

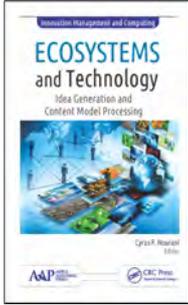
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## Ecosystems and Technology

Idea Generation and Content Model Processing



Edited by **Cyrus F. Nourani**, Point Pleasant, New Jersey, USA  
*Series: Innovation Management and Computing*

*Ecosystems and Technology: Idea Generation and Content Model Processing* presents important new innovations in the area of management and computing. Innovation is the generation and application of new ideas and skills to produce new products, processes, and services that improve economic and social prosperity. This includes management and design policy decisions and encompasses innovation research, analysis, and best practice in enterprises, public and private sector service organizations, government, regional societies and economies.

Apple Academic Press

**Market:** Business & Management  
 December 2016: 229 x 152: 282pp  
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\* For full contents and more information, visit: [www.crcpress.com/9781771885072](http://www.crcpress.com/9781771885072)

## Effective Communication During Disasters

Making Use of Technology, Media, and Human Resources



Edited by **Girish Bobby Kapur**, Jackson Memorial Hospital (JMH), Miami, Florida, USA, **Sarah Bezek**, Baylor College of Medicine, Houston, Texas, USA and **Jonathan Dyal**, Baylor College of Medicine, Houston, Texas, USA

This title includes a number of Open Access chapters.

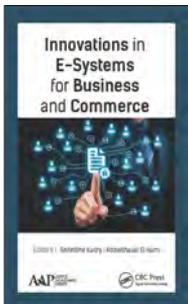
With research from internationally recognized experts, this volume provides an overview of communication challenges and best-practice analyses, looks at the internet and social media and mobile phones and other technology for disaster communication, and explores the challenges to effective communication. The book is an informative, multi-faceted resource on preparedness planning for effective communication before, during, and after a disaster occurs.

Apple Academic Press

**Market:** Homeland Security  
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## Innovations in E-Systems for Business and Commerce



Edited by **Seifedine Kadry**, Beirut Arab University, Faculty of Sciences, Beirut, Lebanon and **Abdelkhalak El Hami**, National Institute of Applied Sciences, Rouen, France

*Innovations in E-Systems for Business and Commerce* presents some of the latest research and direction in the field of e-business and e-commerce. With up-to-date information for top researchers from around the world, the volume covers a wide selection of topics on innovations in e-business and e-commerce.

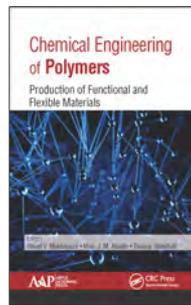
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**Market:** Information Technology  
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 eBook: 978-1-771-88565-2

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## Chemical Engineering of Polymers

Production of Functional and Flexible Materials



Edited by **Omari V. Mukbaniani**, Iv. Javakhishvili Tbilisi State University (TSU), Georgia, **Marc J. M. Abadie**, Point Pleasant, New Jersey, USA and **Tamara Tatrishvili**, Ivane Javakhishvili Tbilisi State University, Georgia

In this important volume, the structures and functions of these advanced polymer and composite systems are evaluated with respect to improved or novel performance, and the potential implications of those developments for the future of polymer-based composites and multifunctional materials are discussed. It focuses exclusively on the latest research related to polymer and composite materials, especially new trends in frontal polymerization and copolymerization synthesis, functionalization of polymers, physical properties, and hybrid systems. Several chapters are devoted to composites and

nanocomposites.

Apple Academic Press

Market: Polymer Science

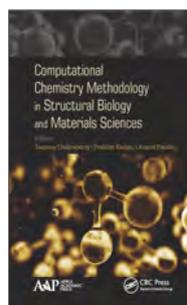
October 2017: 235 x 156: 458pp

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\* For full contents and more information, visit: [www.crcpress.com/9781771884457](http://www.crcpress.com/9781771884457)

## Computational Chemistry Methodology in Structural Biology and Materials Sciences



Edited by **Tanmoy Chakraborty**, Manipal University, Jaipur, India, **Prabhat Ranjan**, Manipal University Jaipur, India and **Anand Pandey**, Manipal University Jaipur, India

Computational Chemistry Methodology in Structural Biology and Materials Sciences provides a selection of new research in theoretical and experimental chemistry, focusing on topics in the materials science and biological activity. Part 1, on Computational Chemistry Methodology in Biological Activity, of the book emphasizes presents new developments in the domain of theoretical and computational chemistry and its applications to bioactive molecules. It looks at various aspects of density functional theory and other issues. Part 2, on Computational Chemistry Methodology in Materials Science, presents informative new research on computational chemistry as applied to materials science.

Apple Academic Press

Market: Chemistry

October 2017: 229 x 152: 370pp

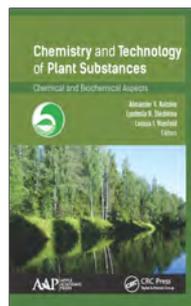
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eBook: 978-1-771-88569-0

\* For full contents and more information, visit: [www.crcpress.com/9781771885683](http://www.crcpress.com/9781771885683)

## Chemistry and Technology of Plant Substances

Chemical and Biochemical Aspects



Edited by **Alexander V. Kutchin**, Point Pleasant, New Jersey, USA, **Lyudmila N. Shishkina**, Point Pleasant, New Jersey, USA and **Larissa I. Weisfeld**, Point Pleasant, New Jersey, USA

This book demonstrates the progress and promise of developing new chemical substances from renewable sources of chemical raw materials. The volume brings together new achievements in the field of research and processing of plant raw materials and the synthesis of natural compounds for the production of biologically active substances and drugs. The volume looks closely at the rational use of renewable raw materials, which is the source of new compounds and intermediates for the chemical industry. It covers a wide range of problems associated with the use of the components of plants to produce new substances with a wide variety of purposes.

Apple Academic Press

Market: Chemistry

July 2017: 229 x 152: 358pp

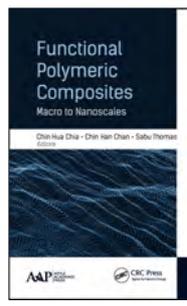
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\* For full contents and more information, visit: [www.crcpress.com/9781771885607](http://www.crcpress.com/9781771885607)

## Functional Polymeric Composites

Macro to Nanoscales



Edited by **Chin Hua Chia**, Universiti Kebangsaan, Bangi, Malaysia, **Chin Han Chan**, University Teknologi MARA, Sha Alam, Malaysia and **Sabu Thomas**, Point Pleasant, New Jersey, USA

This new work, Functional Polymeric Composites: Macro to Nanoscales, focuses on new challenges, findings, opportunities, and applications in the area of polymer composites. The chapters, written prominent researchers from academia, industry, and research institutes from around the world, present contemporary research and developments on advanced polymeric materials, including polymer blends, polymer electrolytes, bio-based polymer, polymer nanocomposites, etc. Several chapters also cover the applications of the polymeric systems in current industry development and synthesis and characterization of the products.

Apple Academic Press

Market: Polymer Science

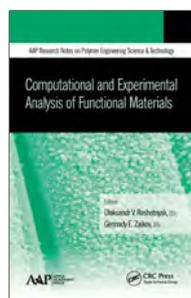
November 2017: 229 x 152: 248pp

Hb: 978-1-771-88499-0: £89.00

eBook: 978-1-771-88500-3

\* For full contents and more information, visit: [www.crcpress.com/9781771884990](http://www.crcpress.com/9781771884990)

## Computational and Experimental Analysis of Functional Materials



Edited by **Oleksandr V. Reshetnyak**, Ivan Franko National University, Lviv, Ukraine and **Gennady E. Zaikov**, Kazan National Research Technological University, Russia

Series: *AAP Research Notes on Polymer Engineering Science and Technology*

This book looks at the synthesis of polyaniline by different methods, under different conditions, for various applications, and presents studies of its properties by a wide range of modern physic-chemical methods. The book provides a comprehensive analysis of experimental results from the point of view of the correlations in the triad synthesis conditions–structurephysico–chemical properties. It combines the results of experimental investigations and original

methodology of the description of physical–chemical and electrochemical phenomena at interface surfaces, showing an influence of such phenomena on the applied aspects of the polyaniline and nanocomposites on its basis applications.

Apple Academic Press

Market: Chemistry

March 2017: 235 x 156: 532pp

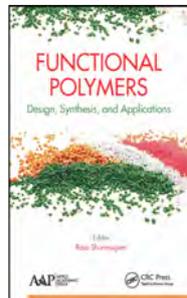
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\* For full contents and more information, visit: [www.crcpress.com/9781771883429](http://www.crcpress.com/9781771883429)

## Functional Polymers

Design, Synthesis, and Applications



Edited by **Raja Shunmugam**, Indian Institute of Science Education & Research, Kolkata, India

This new book covers the synthetic as well application aspects of functional polymers. It highlights modern trends in the field and showcases the recent characterization techniques that are being employed in the field of polymer science. The chapters are written by top-notch scientists who are internationally recognized in the field. The chapters will highlight the modern trend in the field.

Apple Academic Press

Market: Polymer Science

June 2017: 235 x 156: 432pp

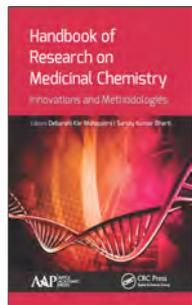
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eBook: 978-1-315-36652-4

\* For full contents and more information, visit: [www.crcpress.com/9781771882965](http://www.crcpress.com/9781771882965)

## Handbook of Research on Medicinal Chemistry

Innovations and Methodologies



Edited by **Debarshi Kar Mahapatra**, Point Pleasant, New Jersey, USA and **Sanjay Kumar Bharti**, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, India

This valuable new book, *Handbook of Research on Medicinal Chemistry: Innovations and Methodologies*, presents some of the latest advancements in the various fields of combinatorial chemistry, drug discovery, biochemical aspects, pharmacology of medicinal agents, current practical problems, and nutraceuticals.

Apple Academic Press

**Market:** Chemistry

November 2017: 229 x 152: 626pp

Hb: 978-1-771-88544-7: **£146.00**

eBook: 978-1-771-88545-4

\* For full contents and more information, visit: [www.crcpress.com/9781771885447](http://www.crcpress.com/9781771885447)

## Natural Fiber Textile Composite Engineering



**Magdi El Messiry**, Alexandria University, Egypt

*Natural Fiber Textile Composite Engineering* sheds light on the area of the natural fiber textile composites with new research on their applications, the material used, the methods of preparation, the different types of polymers, the selection of raw materials, the elements of design the natural fiber textile polymer composites for a particular end use, their manufacturing techniques, and finally their life cycle assessments (LCA). The volume also addresses the important issue in the materials science of how to utilize natural fibers as an enhancement to composite materials.

Apple Academic Press

**Market:** Polymer Science

June 2017: 229 x 152: 360pp

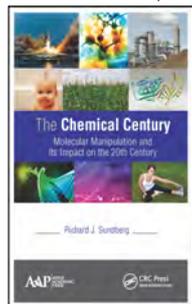
Hb: 978-1-771-88554-6: **£114.00**

eBook: 978-1-771-88555-3

\* For full contents and more information, visit: [www.crcpress.com/9781771885546](http://www.crcpress.com/9781771885546)

## The Chemical Century

Molecular Manipulation and Its Impact on the 20th Century



**Richard J. Sundberg**, Point Pleasant, New Jersey, USA

This fascinating new volume provides a comprehensive yet concise overview of the chemical aspects of some of the major innovations and changes that occurred during the twentieth century, relating chemical structures and properties to real-life applications. The author covers the important and consequential developments in chemistry and explains their everyday, real-life applications. The section *Molecular Biology and Its Applications* includes examples of the application of biotechnology and genetic engineering.

Apple Academic Press

**Market:** Chemistry

April 2017: 235 x 156: 744pp

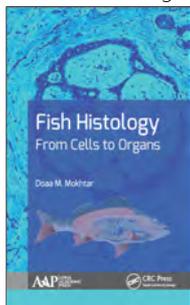
Hb: 978-1-771-88366-5: **£95.00**

eBook: 978-1-315-36626-5

\* For full contents and more information, visit: [www.crcpress.com/9781771883665](http://www.crcpress.com/9781771883665)

## Fish Histology

From Cells to Organs



Doaa M. Mokhtar, Assiut University, Egypt

This new volume provides up-to-date information that emphasizes the relationships and concepts by which cell and tissue structures of fish are inextricably linked with their function. The book also describes the most recent development in the sciences of fish histology. Covers the normal histology of six fish species, the book provides detailed information on the histology of all organs of teleosts and includes 130 original photomicrographs, tables, updated terminology, and expanded information, with over 100 in color.

Apple Academic Press

**Market:** Marine & Aquatic Science

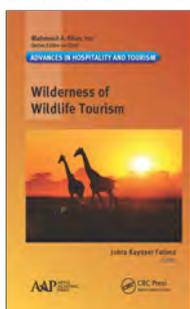
January 2018: 229 x 152: 264pp

Hb: 978-1-771-88589-8: **£131.00**

eBook: 978-1-315-20577-9

\* For full contents and more information, visit: [www.crcpress.com/9781771885898](http://www.crcpress.com/9781771885898)

## Wilderness of Wildlife Tourism



Edited by Johra Kayeser Fatima

*Series: Advances in Hospitality and Tourism*

This new book, Wilderness of Wildlife Tourism, brings together the best voices in the field of wildlife tourism and provides a key understanding of wildlife tourism. It explores many important aspects of wildlife to date with related implications for various sectors, such as technology, education, corporations, and policymaking.

Apple Academic Press

**Market:** Tourism

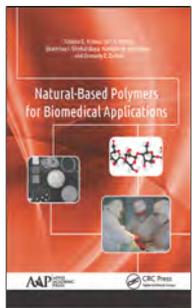
May 2017: 229 x 152: 290pp

Hb: 978-1-771-88481-5: **£114.00**

eBook: 978-1-771-88482-2

\* For full contents and more information, visit: [www.crcpress.com/9781771884815](http://www.crcpress.com/9781771884815)

## Natural-Based Polymers for Biomedical Applications



Edited by **Tatiana G. Volova**, Point Pleasant, New Jersey, USA, **Yuri S. Vinnik**, Krasnoyarsk State Medical School, Russia, **Ekaterina I. Shishatskaya**, Point Pleasant, New Jersey, USA, **Nadejda M. Markelova**, Krasnoyarsk State Medical School, Russia and **Gennady E. Zaikov**, Kazan National Research Technological University, Russia

This new book presents the authors' biomedical studies of natural degradable biopolymers (polyhydroxyalkanoates [PHAs]) and discusses the demand for medical-grade materials and modern trends, focusing on the present status and future potential of PHAs. The authors present and summarize their most important results and findings obtained during the last few years in experimental studies and clinical trials of PHAs at the Institute of Biophysics Siberian Branch of Russian Academy

of Science.

Apple Academic Press

**Market:** Polymer Science

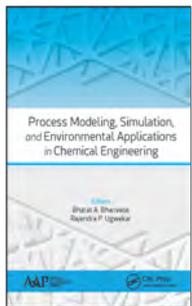
April 2017: 235 x 156: 440pp

Hb: 978-1-771-88435-8: £99.00

eBook: 978-1-315-36603-6

\* For full contents and more information, visit: [www.crcpress.com/9781771884358](http://www.crcpress.com/9781771884358)

## Process Modeling, Simulation, and Environmental Applications in Chemical Engineering



Edited by **Bharat A. Bhanvase**, Point Pleasant, New Jersey, USA and **Rajendra P. Ugwekar**, Point Pleasant, New Jersey, USA

This book presents new and original research on various topics on chemical engineering and technology including modeling and simulation, material synthesis, wastewater treatment, analytical techniques, and microreactors. The research presented here can be applied to technology in food, paper and pulp, polymers, petrochemicals, surface coatings, oil technology aspects, among other uses. Topics include modeling and simulation of chemical processes, process integration and intensification, separation processes, advances in unit operations and processes, chemical reaction engineering, fuel and energy, advanced materials, CFD and transport processes, and

wastewater treatment.

Apple Academic Press

**Market:** Chemical Engineering

December 2016: 229 x 152: 370pp

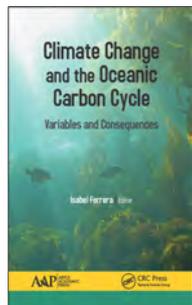
Hb: 978-1-771-88324-5: £99.00

eBook: 978-1-315-36644-9

\* For full contents and more information, visit: [www.crcpress.com/9781771883245](http://www.crcpress.com/9781771883245)

## Climate Change and the Oceanic Carbon Cycle

Variables and Consequences



Edited by **Isabel Ferrera**, Marine Sciences Institute, Barcelona, Spain

This title includes a number of Open Access chapters.

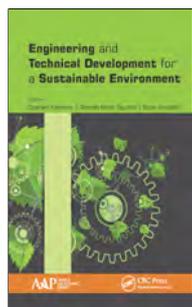
This valuable compendium provides an overview of the variables and consequences of oceanic carbon cycling in the context of climate change. The chapters highlight the importance of marine plankton in carbon processing as well as the effects of rising CO<sub>2</sub> and temperature in their functioning. Edited by a researcher with many years of experience and with contributions from scientists from around the world, this volume explores the most important topics on climate change and oceanic carbon cycling.

Apple Academic Press

**Market:** Environmental Science  
January 2017: 229 x 152: 304pp  
Hb: 978-1-771-88536-2: **£95.00**  
eBook: 978-1-315-20749-0

\* For full contents and more information, visit: [www.crcpress.com/9781771885362](http://www.crcpress.com/9781771885362)

## Engineering and Technical Development for a Sustainable Environment



Edited by **Dzaraini Kamarun**, Point Pleasant, New Jersey, USA, **Ramlah Mohd. Tajuddin**, Point Pleasant, New Jersey, USA and **Bulan Abdullah**

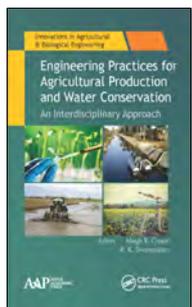
Engineering and Technical Development for a Sustainable Environment covers a diverse array of alternative technologies and their development with particular attention to the utilization of biosources for the achievement of a sustainable environment. The book presents a selection of alternative technologies being used in developing and developed countries that can be indigenous to the region, cost-effective, and often driven by societal interest and geographical status. Several engineering and technological processes are included to mark their importance in product performance and preservation of the environment.

Apple Academic Press

**Market:** Environmental Science  
November 2017: 229 x 152: 240pp  
Hb: 978-1-771-88521-8: **£89.00**  
eBook: 978-1-315-20732-2

\* For full contents and more information, visit: [www.crcpress.com/9781771885218](http://www.crcpress.com/9781771885218)

## Engineering Practices for Agricultural Production and Water Conservation



Edited by **Megh R. Goyal**, Point Pleasant, New Jersey, USA and **R. K. Sivanappan**, Consultant/Adviser

*Series: Innovations in Agricultural & Biological Engineering*

This informative new book takes an interdisciplinary look at agricultural and food production and how new engineering practices can be used to enhance production. With contributions from international experts from India, Russia, China, Serbia, and USA, this book presents a selection of chapters on some of these emerging practices, focusing on soil and water conservation and management; agricultural processing engineering; water quality and management; emerging agricultural crops; renewable energy use in agriculture; and applications of nanotechnology in agriculture.

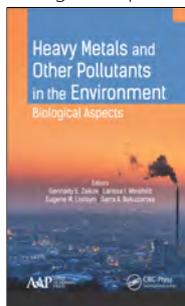
Apple Academic Press

**Market:** Agriculture  
March 2017: 229 x 152: 400pp  
Hb: 978-1-771-88451-8: **£99.00**  
eBook: 978-1-315-36595-4

\* For full contents and more information, visit: [www.crcpress.com/9781771884518](http://www.crcpress.com/9781771884518)

## Heavy Metals and Other Pollutants in the Environment

Biological Aspects



Edited by **Gennady E. Zaikov**, Kazan National Research Technological University, Russia, **Larissa I. Weisfeld**, **Eugene M. Lisitsyn**, Point Pleasant, New Jersey, USA and **Sarra A. Bekuzarova**, Republic of North Ossetia-Alania, Russia

This important new volume presents a plethora of research on the distribution of heavy metals in soils and rocks of natural habitats, farmlands, and urbanized areas along with the factors influencing their bioavailability. The authors evaluate the content of organic matter, soil acidity, mineral fertilizers, and more. Developed for ecologists and specialists in the field of environmental protection and the conservation of biological diversity, the book presents the problems of reducing the anthropogenic load on the surrounding countryside and focuses on sustainable agricultural development.

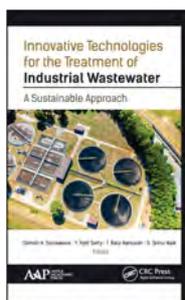
Apple Academic Press

**Market:** Environmental Engineering  
July 2017: 235 x 156: 438pp  
Hb: 978-1-771-88437-2: **£95.00**  
eBook: 978-1-771-88438-9

\* For full contents and more information, visit: [www.crcpress.com/9781771884372](http://www.crcpress.com/9781771884372)

## Innovative Technologies for the Treatment of Industrial Wastewater

A Sustainable Approach



Edited by **Shirish H. Sonawane**, National Institute of Technology, Talangana, India, **Y. Pydi Setty**, National Institute of Technology, Talangana, India, **T. Bala Narsaiah**, Institute of Science & Technology, Jawaharlal Nehru Technological University, Hyderabad, India and **S. Srinu Naik**, Point Pleasant, New Jersey, USA

This book highlights advances in sustainable wastewater treatment technologies, particularly biological wastewater treatment, cavitation-based treatment, hybrid water treatment, membrane technologies, advance oxidation processes, and adsorption. The book focuses on a variety of advanced treatment techniques that are useful for the degradation of organic components, dyes, heavy metals effluent, etc. in wastewater.

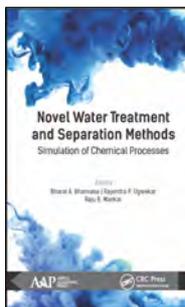
Apple Academic Press

**Market:** Water Engineering  
December 2017: 229 x 152: 320pp  
Hb: 978-1-771-88497-6: **£99.00**  
eBook: 978-1-771-88498-3

\* For full contents and more information, visit: [www.crcpress.com/9781771884976](http://www.crcpress.com/9781771884976)

## Novel Water Treatment and Separation Methods

Simulation of Chemical Processes



Edited by **Bharat A. Bhanvase**, Point Pleasant, New Jersey, USA, **Rajendra P. Ugwekar**, Point Pleasant, New Jersey, USA and **Raju B. Mankar**, Laxminarayan Institute of Technology, Nagpur, India

Due to increasing demand for potable and irrigation water, new scientific research is being conducted to deal with wastewater from a variety of sources. Novel Water Treatment and Separation Methods: Simulation of Chemical Processes presents a selection of research related to applications of chemical processes for wastewater treatment, separation techniques, and modeling and simulation of chemical processes.

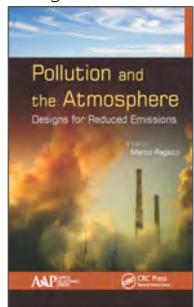
Apple Academic Press

**Market:** Water Science  
September 2017: 235 x 156: 336pp  
Hb: 978-1-771-88578-2: **£99.00**  
eBook: 978-1-315-22539-5

\* For full contents and more information, visit: [www.crcpress.com/9781771885782](http://www.crcpress.com/9781771885782)

## Pollution and the Atmosphere

Designs for Reduced Emissions



Edited by **Marco Ragazzi**, Point Pleasant, New Jersey, USA

This title includes a number of Open Access chapters.

This new compendium volume examines the significant impact of air quality on human health. Assessing air pollution in complex morphologies has become an important issue in order to implement mitigation measures and limit emissions from the most relevant sources, such as waste incineration, traffic emissions, emissions from fuel and electricity production, and household emissions. These pollutants result in adverse health effects, material damage, damage to ecosystems, and global climate change. The chapters in the book contain recent research looking at the two major components of air pollution: air pollution control and air-quality engineering.

Apple Academic Press

**Market:** Environmental Engineering

January 2017: 229 x 152: 320pp

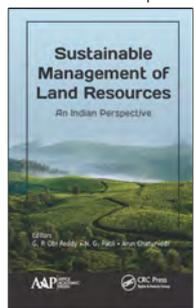
Hb: 978-1-771-88513-3: **£95.00**

eBook: 978-1-315-36563-3

\* For full contents and more information, visit: [www.crcpress.com/9781771885133](http://www.crcpress.com/9781771885133)

## Sustainable Management of Land Resources

An Indian Perspective



Edited by **G.P. Obi Reddy**, ICAR-National Bureau of Soil Survey and Land Use Planning (NBSS&LUP), Nagpur, India, **N.G. Patil**, Indian Council of Agricultural Research and Editor-in-Chief, Indian Society of Soil Survey and Land Use Planning and **Arun Chaturvedi**, ICAR-National Bureau of Soil Survey and Land Use Planning, Nagpur, India; President, Indian Society of Soil Survey and Land Use Planning

The depletion of land resources is one of the greatest challenges for mankind in this millennium. Shrinking land resources, weather aberrations, deterioration of land quality, and the globalization and liberalization of market economies have become intertwined to influence the sustainable management of land resources and land use plans. This important volume, Sustainable Management of Land Resources: An Indian Perspective, addresses these

challenges, covering important research, much of it gathered with the use of new technology, tools, and applications.

Apple Academic Press

**Market:** Environmental Science

August 2017: 229 x 152: 796pp

Hb: 978-1-771-88517-1: **£114.00**

eBook: 978-1-771-88518-8

\* For full contents and more information, visit: [www.crcpress.com/9781771885171](http://www.crcpress.com/9781771885171)

## Developing Technologies in Food Science

Status, Applications, and Challenges



Edited by **Murlidhar Meghwal**, Jyothy Institute of Technology, Bengaluru; Department of Food Science and Technology, National Institute of Food Technology Entrepreneurship & Management, Sonapat, Haryana, India and **Megh R. Goyal**, Point Pleasant, New Jersey, USA

*Series: Innovations in Agricultural & Biological Engineering*

This new volume focuses on emerging trends, applications and challenges in food science and technology. While food science and technology is not a new field, it is constantly changing due to new technology, new science, and new demands. This multidisciplinary book not only considers food processing, preservation, and distribution but also takes into account the consumer's wants and needs. Included is a report of the status of agricultural production and food processing industries in India

with a national and international perspective.

Apple Academic Press

**Market:** Food Science

May 2017: 229 x 152: 356pp

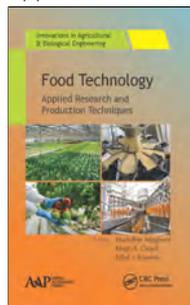
Hb: 978-1-771-88447-1: **£95.00**

eBook: 978-1-771-88448-8

\* For full contents and more information, visit: [www.crcpress.com/9781771884471](http://www.crcpress.com/9781771884471)

## Food Technology

Applied Research and Production Techniques



Edited by **Murlidhar Meghwal**, Jyothy Institute of Technology, Bengaluru; Department of Food Science and Technology, National Institute of Food Technology Entrepreneurship & Management, Sonapat, Haryana, India, **Megh R. Goyal**, Point Pleasant, New Jersey, USA and **Mital J. Kaneria**, Point Pleasant, New Jersey, USA

*Series: Innovations in Agricultural & Biological Engineering*

This new looks at recent developments and innovations in food technology and sustainable technologies. Advanced topics in the volume include food processing, preservation, nutritional analysis, quality control and maintenance as well as good manufacturing practices in the food industries. The chapters are highly focused reports to help direct the development of current food- and agriculture-based knowledge into promising

technologies.

Apple Academic Press

**Market:** Food Science

August 2017: 229 x 152: 370pp

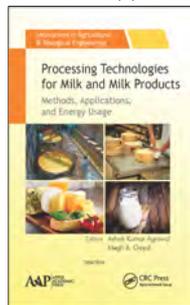
Hb: 978-1-771-88509-6: **£121.00**

eBook: 978-1-771-88510-2

\* For full contents and more information, visit: [www.crcpress.com/9781771885096](http://www.crcpress.com/9781771885096)

## Processing Technologies for Milk and Milk Products

Methods, Applications, and Energy Usage



Edited by **Ashok Kumar Agrawal**, College of Dairy Science and Food Technology, Chhattisgarh Kamdhenu University–Durg, Raipur, India and **Megh R. Goyal**, Point Pleasant, New Jersey, USA

*Series: Innovations in Agricultural & Biological Engineering*

The demand for quality milk products is increasing throughout the world. Food patterns are changing from eating plant protein to animal protein due to increasing incomes around the world, and the production of milk and milk products is expanding with leaps and bounds. This book presents an array of recent developments and emerging topics in the processing and manufacturing of milk and dairy products. The volume also devotes a special section on alternative energy sources for dairy production along with solutions for energy conservation.

Apple Academic Press

**Market:** Food Science

August 2017: 229 x 152: 380pp

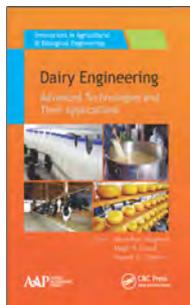
Hb: 978-1-771-88548-5: **£99.00**

eBook: 978-1-771-88549-2

\* For full contents and more information, visit: [www.crcpress.com/9781771885485](http://www.crcpress.com/9781771885485)

## Dairy Engineering

Advanced Technologies and Their Applications



Edited by **Murlidhar Meghwal**, Jain University, Bangalore, India, **Megh R. Goyal**, Point Pleasant, New Jersey, USA and **Rupesh S. Chavan**, Mother Dairy at Junagadh, Gujarat, India

*Series: Innovations in Agricultural & Biological Engineering*

Written for and by dairy and food engineers with experience in the field, this new volume provides a wealth of valuable information on dairy technology and its applications. The book covers devices, standardization, packaging, ingredients, laws and regulatory guidelines, food processing methods, and more. The coverage of each topic is comprehensive enough to serve as an overview of the most recent and relevant research and technology.

Apple Academic Press

**Market:** Food Science

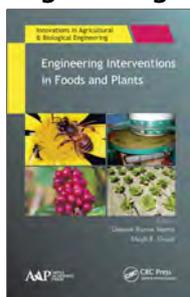
March 2017: 235 x 156: 350pp

Hb: 978-1-771-88380-1: **£108.00**

eBook: 978-1-315-36621-0

\* For full contents and more information, visit: [www.crcpress.com/9781771883801](http://www.crcpress.com/9781771883801)

## Engineering Interventions in Foods and Plants



Edited by **Deepak Kumar Verma**, Indian Institute of Technology, West Bengal, India and **Megh R. Goyal**, Point Pleasant, New Jersey, USA

*Series: Innovations in Agricultural & Biological Engineering*

This volume focuses on new areas of processing technologies in foods and plants to help meet the increasing food demand of the rapidly growing populations of the world. It explores several emerging entrepreneurship and employment opportunities for rural peoples in food and agricultural processing, specifically beekeeping technology and honey processing; herbal formulations; and extraction of essential oils from plants. It also discusses technological interventions in foods and plants for human health benefits and management

strategies in agricultural engineering, with a chapter on production technology of ethanol from various sources and its potential applications in various industries.

Apple Academic Press

**Market:** Agriculture

October 2017: 229 x 152: 318pp

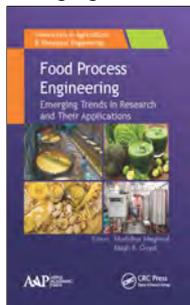
Hb: 978-1-771-88596-6: **£124.00**

eBook: 978-1-315-19467-7

\* For full contents and more information, visit: [www.crcpress.com/9781771885966](http://www.crcpress.com/9781771885966)

## Food Process Engineering

Emerging Trends in Research and Their Applications



Edited by **Murlidhar Meghwal**, Jain University, Bangalore, India and **Megh R. Goyal**, Point Pleasant, New Jersey, USA

*Series: Innovations in Agricultural & Biological Engineering*

Food Process Engineering: Emerging Trends in Research and Their Applications provides a global perspective of present-age frontiers in food process engineering research, innovation, and emerging trends. It provides an abundance of new information on a variety of issues and problems in food processing technology. Divided into five parts, the book presents new research on new trends and technologies in food processing, ultrasonic treatment of foods, foods for specific needs, food preservation, and food hazards and their controls.

Apple Academic Press

**Market:** Food Science

December 2016: 229 x 152: 436pp

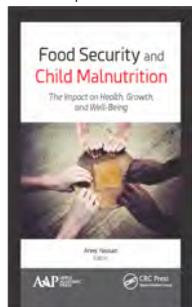
Hb: 978-1-771-88402-0: **£95.00**

eBook: 978-1-315-36615-9

\* For full contents and more information, visit: [www.crcpress.com/9781771884020](http://www.crcpress.com/9781771884020)

## Food Security and Child Malnutrition

The Impact on Health, Growth, and Well-Being



Edited by **Areej Hassan**, Harvard Medical School and Boston Children's Hospital, Boston, MA, USA

This title includes a number of Open Access chapters.

Food security and child malnutrition are at the forefront of our attention, both nationally and internationally. The chapters contained in this compendium include a range of methodologies—literature review, cross-sectional study, longitudinal study, case-control, and even a focus group!—all of which examine this urgent issue, revealing new perspectives and facets of information. The international roster of contributors present a nuanced look at food security and child malnutrition with research into food security measures in many nations around the world.

Apple Academic Press

**Market:** Food Science

December 2016: 229 x 152: 292pp

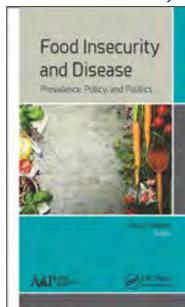
Hb: 978-1-771-88493-8: **£95.00**

eBook: 978-1-315-36574-9

\* For full contents and more information, visit: [www.crcpress.com/9781771884938](http://www.crcpress.com/9781771884938)

## Food Insecurity and Disease

Prevalence, Policy, and Politics



Edited by **Areej Hassan**, Harvard Medical School and Boston Children's Hospital, Boston, MA, USA

This title includes a number of Open Access chapters.

Providing a nuanced look at food insecurity and its connection to disease, the book advances our understanding of this issue; supplies a solid foundation on which to build well-informed clinical practice, further research, and effective future policy. With contributions from around the world, the book examines many issues, such as the association between food insecurity and mania symptoms, food insecurity and HIV risk, how food insecurity affects ability to manage their diabetes, the link between obesity and food insecurity, how food insecurity affects women and girls, the power of large food corporations over the global food system, and the paradox of the food

insecurity and obesity.

Apple Academic Press

**Market:** Food Science

December 2016: 229 x 152: 280pp

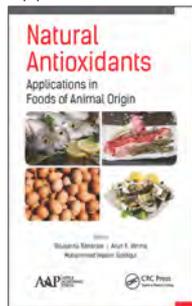
Hb: 978-1-771-88491-4: **£95.00**

eBook: 978-1-315-36576-3

\* For full contents and more information, visit: [www.crcpress.com/9781771884914](http://www.crcpress.com/9781771884914)

## Natural Antioxidants

Applications in Foods of Animal Origin



Edited by **Rituparna Banerjee**, ICAR-National Research Centre on Meat, Hyderabad, India, **Arun K. Verma**, ICAR-Central Research Institute for Research on Goats (ICAR), Makhdoom, Mathura, India and **Mohammed Wasim Siddiqui**, Bihar Agricultural University, Sabour, India

In the recent years, considerable research has been carried out evaluating natural substances as antioxidative additives in food products, leading to novel combinations of antioxidants and the development of novel food products. In addition to their antioxidative capacity, these natural additives have positive effects on the human body with documented health benefits.

This valuable new book provides an overview of natural antioxidants, their sources, methods of extraction, regulatory aspects, and application techniques, specifically focusing on

different foods of animal origin to improve their oxidative stability.

Apple Academic Press

**Market:** Food Science

May 2017: 235 x 156: 414pp

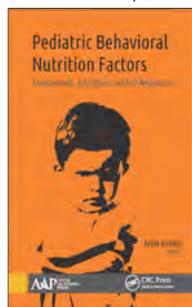
Hb: 978-1-771-88459-4: **£99.00**

eBook: 978-1-771-88460-0

\* For full contents and more information, visit: [www.crcpress.com/9781771884594](http://www.crcpress.com/9781771884594)

## Pediatric Behavioral Nutrition Factors

Environment, Education, and Self-Regulation



Edited by **Areej Hassan**, Harvard Medical School and Boston Children's Hospital, Boston, MA, USA

This title includes a number of Open Access chapters.

In this book, the editor carefully selected each chapter individually to provide a nuanced look at how environment, education, and self-regulation impact pediatric nutrition. All the various factors that intertwine with and influence nutrition are not yet known, and we often assume that poor nutrition is a socioeconomic issue. This is a massive, multifaceted topic. The articles in this compendium make clear that this simplistic assumption is not accurate; they were chosen to present as accurate a total image as possible, based on recent research.

The final chapters offer innovative interventions that should become the foundation for ongoing investigation.

Apple Academic Press

**Market:** Food Science

December 2016: 229 x 152: 358pp

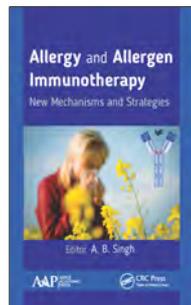
Hb: 978-1-771-88495-2: **£95.00**

eBook: 978-1-315-36573-2

\* For full contents and more information, visit: [www.crcpress.com/9781771884952](http://www.crcpress.com/9781771884952)

## Allergy and Allergen Immunotherapy

New Mechanisms and Strategies



Edited by **A.B. Singh**, CSIR Institute of Genomics and Integrative Biology, Delhi University Campus, Delhi, India  
**Allergy and Allergen Immunotherapy: New Mechanisms and Strategies** is a valuable and comprehensive book that covers allergy and causative allergens and provides diagnostic and therapeutic aspects as well. With chapters from internationally recognized experts in the field, the book provides a balanced approach to enumerating pollen allergens as well as allergy diagnosis and therapeutic management and safety assessment of genetically engineered food allergens.

Apple Academic Press

**Market:** Medicine

March 2017: 229 x 152: 502pp

Hb: 978-1-771-88542-3: **£108.00**

eBook: 978-1-315-20752-0

\* For full contents and more information, visit: [www.crcpress.com/9781771885423](http://www.crcpress.com/9781771885423)

## Holistic Healthcare

Possibilities and Challenges



Edited by **Anne George**, Director, Institute of Holistic Medical Sciences, Kottayam, Kerala, India, **Oluwafemi Samuel Oluwatobi**, Point Pleasant, New Jersey, USA and **Blessy Joseph**, Mahatma Gandhi University, Kottayam, India

This new book focuses on recent trends in holistic medicine, the art of maintaining proper balance between one's physical health and mental well-being. The book highlights the importance of maintaining a healthy life style for physical well-being and examines the advantages of using traditional medicine to combat multi-drug-resistance problems caused by modern-day antibiotics. It details the advantages of using holistic approaches to treat infectious diseases with relevant clinical data.

Apple Academic Press

**Market:** Healthcare

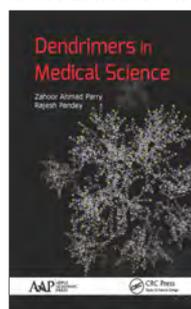
March 2017: 229 x 152: 276pp

Hb: 978-1-771-88372-6: **£82.00**

eBook: 978-1-315-36624-1

\* For full contents and more information, visit: [www.crcpress.com/9781771883726](http://www.crcpress.com/9781771883726)

## Dendrimers in Medical Science



**Zahoor Ahmad Parry**, Indian Institute of Integrative Medicine, Srinagar, India and **Rajesh Pandey**, MM Institute of Medical Sciences and Research, Mullana, Ambala (Haryana), India

This valuable new book offers a new perspective on dendrimers that bridges the gap between basic research and applied nanomedicine. It explores the ultimate effectiveness of dendrimers in therapeutics, a promising field that combines therapeutics and diagnostics into single multifunctional formulations used to affect therapy or treatment of a disease state. The authors examine the potential uses of dendrimers, which have proven their capabilities in local/systemic drug delivery, physical stabilization of the drug, solubility enhancement of the poorly soluble drugs, and gene delivery.

Apple Academic Press

**Market:** Pharmaceutical Sciences

May 2017: 235 x 156: 222pp

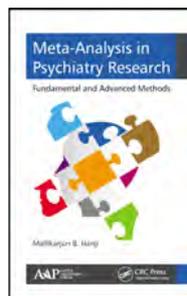
Hb: 978-1-771-88441-9: **£95.00**

eBook: 978-1-771-88442-6

\* For full contents and more information, visit: [www.crcpress.com/9781771884419](http://www.crcpress.com/9781771884419)

## Meta-Analysis in Psychiatry Research

Fundamental and Advanced Methods



**Mallikarjun B. Hanji**, Agricultural Technology Application Research Institute, Bangalore, India

This book introduces the latest meta-analytical methods and discusses their applications in the field of psychiatry. A comprehensive list of methods used in meta-analysis has been described in simple language and demonstrated with real-time examples. This informative volume explains the importance of meta-analysis and describes how it differs from narrative and systematic reviews. It also relates the historical development of meta-analysis and explains methods used for locating and selecting the required studies in a given domain. Suitable software is examined in detail as well.

Apple Academic Press

**Market:** Psychiatry

March 2017: 229 x 152: 266pp

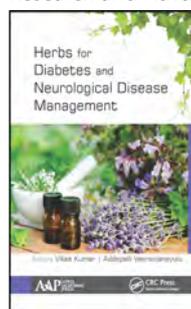
Hb: 978-1-771-88376-4: **£89.00**

eBook: 978-1-315-36623-4

\* For full contents and more information, visit: [www.crcpress.com/9781771883764](http://www.crcpress.com/9781771883764)

## Herbs for Diabetes and Neurological Disease Management

Research and Advancements



Edited by **Vikas Kumar**, DD Innovations, Inc., Edina, Minnesota, USA; formerly Indian Institute of Technology (IIT), Uttar Pradesh, India and **Addepalli Veeranjeyulu**, Point Pleasant, New Jersey, USA

This book looks at a selection of herbs that have proven effective in the management of diabetes and neurological disorders, including migraine, epilepsy, memory disorders, depression, and more. Divided into ten chapters focusing on diabetes and its macro- and microvascular complications (migraine, epilepsy, memory disorders, depression and other neuropsychiatric disorders), this book explains the epidemiology and pathophysiology of the disease state and the possible role of herbal drugs in the prevention of the particular disease. The reported pharmacological activities and possible mechanism of

action of herbal drugs are also discussed, which makes this book informative and unique.

Apple Academic Press

**Market:** Allied Health

November 2017: 229 x 152: 312pp

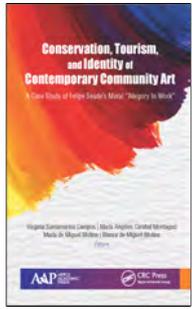
Hb: 978-1-771-88588-1: **£124.00**

eBook: 978-1-315-20757-5

\* For full contents and more information, visit: [www.crcpress.com/9781771885881](http://www.crcpress.com/9781771885881)

## Conservation, Tourism, and Identity of Contemporary Community Art

A Case Study of Felipe Seade's Mural "Allegory to Work"



Edited by **Virginia Santamarina-Campos**, Point Pleasant, New Jersey, USA, **María Ángeles Carabal-Montagud**, Point Pleasant, New Jersey, USA, **María de Miguel-Molina**, Point Pleasant, New Jersey, USA and **Blanca de Miguel-Molina**, Point Pleasant, New Jersey, USA

This new book, Conservation, Tourism, and Identity of Contemporary Community Art: A Case Study of Felipe Seade's Mural "Allegory to Work", aims to promote new models of sustainable management in the field of contemporary mural art. The authors look at a famous mural—and its restoration—through the lens of tourism, globalization, and new interest in cultural heritage. The book demonstrates that the restoration should be aware that the perspective of the protagonists must be incorporated in the intervention process.

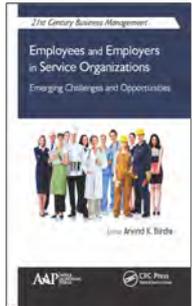
Apple Academic Press

**Market:** Tourism & Hospitality  
December 2017: 229 x 152: 328pp  
Hb: 978-1-771-88401-3: **£139.00**  
eBook: 978-1-771-88400-6

\* For full contents and more information, visit: [www.crcpress.com/9781771884013](http://www.crcpress.com/9781771884013)

## Employees and Employers in Service Organizations

Emerging Challenges and Opportunities



Edited by **Arvind K. Birdie**, Point Pleasant, New Jersey, USA

*Series: 21st Century Business Management*

With increasing globalization and fast-paced technological advances in business today, service organizations must respond to the changing business dynamic between employers and employees. The service industry has metamorphosed into a revolution not only in the United States but also in other developed and developing countries. Highly industrialized countries have become 'service economies', at least when measured in terms of share of the workforce employed in service industries. This new book provides in-depth exploration of recent concepts and trends in business management in the service industries.

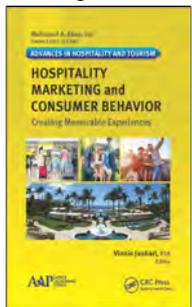
Apple Academic Press

**Market:** Business Improvement  
April 2017: 229 x 152: 374pp  
Hb: 978-1-771-88473-0: **£95.00**  
eBook: 978-1-315-36585-5

\* For full contents and more information, visit: [www.crcpress.com/9781771884730](http://www.crcpress.com/9781771884730)

## Hospitality Marketing and Consumer Behavior

Creating Memorable Experiences



Edited by **Vinnie Jauhari**, Microsoft Corporation India Ltd., Gurgaon

*Series: Advances in Hospitality and Tourism*

Creating memories and joyous experiences for consumers is a key dimension affecting the profitability and growth of a hospitality firm. Drawing on global experiences, this new book, Hospitality Marketing and Consumer Behavior: Creating Memorable Experiences, looks at the diverse factors that create these positive experiences and provides insight into marketing and consumer behavior in the context of hospitality and tourism. The dynamics of emerging economies has been captured, and some lessons have been drawn from best practices across the globe.

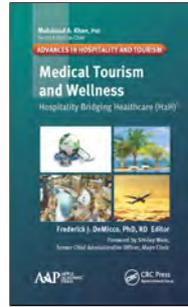
Apple Academic Press

**Market:** Tourism and Hospitality  
June 2017: 235 x 156: 360pp  
Hb: 978-1-771-88378-8: **£95.00**  
eBook: 978-1-771-88379-5

\* For full contents and more information, visit: [www.crcpress.com/9781771883788](http://www.crcpress.com/9781771883788)

## Medical Tourism and Wellness

Hospitality Bridging Healthcare (H2H)



Edited by **Frederick J. DeMicco**

Medical Tourism and Wellness: Hospitality Bridging Healthcare (H2H) takes a systems approach to examining the growing field of medical tourism, one of the field's hottest niches, with billions of dollars spent each year. This important book fills the need for a modern management book that looks at medical tourism in depth from a medical and hospitality operational management perspective.

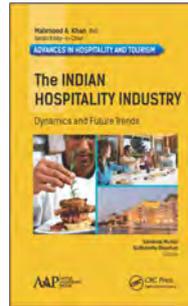
Apple Academic Press

**Market:** Tourism & Hospitality  
March 2017: 235 x 156: 440pp  
Hb: 978-1-771-88505-8: **£146.00**  
eBook: 978-1-315-36567-1

\* For full contents and more information, visit: [www.crcpress.com/9781771885058](http://www.crcpress.com/9781771885058)

## The Indian Hospitality Industry

Dynamics and Future Trends



Edited by **Sandeep Munjal**, Point Pleasant, New Jersey, USA

and **Sudhanshu Bhushan**, Point Pleasant, New Jersey, USA

*Series: Advances in Hospitality and Tourism*

The volume presents a selection of insightful chapters that offer research into the multiple dimensions of the Indian hospitality industry. The book covers many segments of the hospitality sector, including hotels, events and catering businesses, and restaurants and coffee shops, both domestic and small mom-and-pop businesses as well as international chains. The opening chapters set the tone for providing an overarching perspective on the status of the industry in terms of the macroeconomic variables and how they may have impacted the health of hospitality businesses in India. The book then goes on to explore a wide variety of issues.

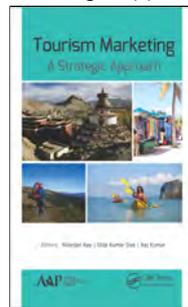
Apple Academic Press

**Market:** Hospitality & Tourism  
August 2017: 229 x 152: 370pp  
Hb: 978-1-771-88579-9: **£95.00**  
eBook: 978-1-315-22544-9

\* For full contents and more information, visit: [www.crcpress.com/9781771885799](http://www.crcpress.com/9781771885799)

## Tourism Marketing

A Strategic Approach



Edited by **Nilanjan Ray**, Cell Bakhtar University, West Bengal, India, **Dilip Kumar Das**, Point Pleasant, New Jersey, USA and **Raj Kumar**

*Tourism Marketing: A Strategic Approach* presents a variety of practical application tools, skills, practices, models, approaches, and strategies that are proving themselves effective in tourism marketing. The volume considers overall infrastructure, socioeconomic conditions, and modern tourism business infrastructure in discussing the efficiency of good strategies and practices and their impact on business and economic growth. Tourism is one of the fastest growing industries, and in the next few decades, it will play a role in many fields, such as human resources, national economic growth, and more.

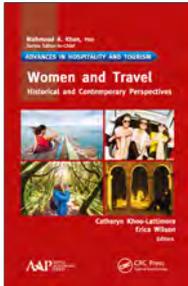
Apple Academic Press

**Market:** Tourism  
August 2017: 235 x 156: 330pp  
Hb: 978-1-771-88470-9: **£95.00**  
eBook: 978-1-771-88471-6

\* For full contents and more information, visit: [www.crcpress.com/9781771884709](http://www.crcpress.com/9781771884709)

## Women and Travel

Historical and Contemporary Perspectives



Edited by **Catheryn Khoo-Lattimore**, Griffith University, Queensland, Australia and **Erica Wilson**, Point Pleasant, New Jersey, USA

*Series: Advances in Hospitality and Tourism*

*Women and Travel: Historical and Contemporary Perspectives* is a fascinating look at the behavior, motivations, experiences, and needs of women as tourists and travellers, drawing on both historic and contemporary eras. Surprisingly little research has explored key issues, experiences, and opportunities in the context of women's travel. This revealing volume fills this gap, exploring the discourses, debates, and discussions about women, travel, and tourism.

Apple Academic Press

**Market:** Tourism

April 2017: 229 x 152: 276pp

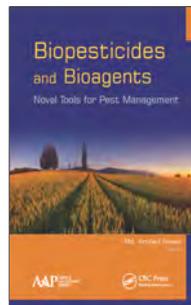
Hb: 978-1-771-88468-6: **£89.00**

eBook: 978-1-315-36587-9

\* For full contents and more information, visit: [www.crcpress.com/9781771884686](http://www.crcpress.com/9781771884686)

## Biopesticides and Bioagents

Novel Tools for Pest Management



Edited by **Md. Arshad Anwer**, Bihar Agricultural University, Sabour-Bhagalpur, Bihar, India

This comprehensive volume looks at the status of biopesticides and biocontrol agents in agriculture. It will be a critically important reference work, providing basic facts and studies on new and current discoveries of the role of biopesticides and bioagents in integrated pest management (IPM). The book is broken into four main sections, covering the status of biopesticides and biocontrol agents in agriculture; plant health-promoting biocontrol agents; parasitoids and predators; and genetically modified crops and *Bacillus thuringiensis*, and phytochemicals in biocontrol.

Apple Academic Press

**Market:** Agriculture

September 2017: 229 x 152: 402pp

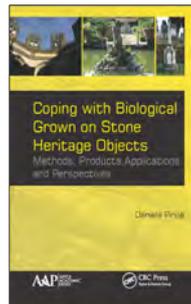
Hb: 978-1-771-88519-5: **£108.00**

eBook: 978-1-315-36555-8

\* For full contents and more information, visit: [www.crcpress.com/9781771885195](http://www.crcpress.com/9781771885195)

## Coping with Biological Growth on Stone Heritage Objects

Methods, Products, Applications, and Perspectives



**Daniela Pinna**, Point Pleasant, New Jersey, USA

This book offers hands-on guidance for addressing the specific challenges involved in conserving historical monuments, sculptures, archaeological sites, and caves that have been attacked and colonized by micro- and macroorganisms. It provides many case studies of removal of biological growth with practical advice for making the right choices. It presents detailed and updated information related to biocides and to alternative substances, features that will be valuable to dealing with these challenges. The author's goal is to provide access to information and offer the conceptual framework needed to understand complex issues.

Apple Academic Press

**Market:** Archaeology

May 2017: 229 x 152: 360pp

Hb: 978-1-771-88532-4: **£108.00**

eBook: 978-1-771-88533-1

\* For full contents and more information, visit: [www.crcpress.com/9781771885324](http://www.crcpress.com/9781771885324)

## Ethnobotany of India, 5-Volume Set



Edited by **T. Pullaiah**, Point Pleasant, New Jersey, USA, **K. V. Krishnamurthy**, Bharathidasan University, Tiruchirappalli, India and **Bir Bahadur**, Kakatiya University, Warangal, Telangana, India

*Series: Ethnobotany of India*

This new 5-volume set provides an informative overview of human-plant interrelationships in India, focusing on the regional plants and their medicinal properties and uses. Each volume focuses on a different significant region of India, including Eastern Ghats and Deccan, Western Ghats and West Coast of Peninsular India, North-East India and Andaman and Nicobar Islands, Western and Central Himalaya, and The Indo-Gangetic Region and Central India. With chapters written by experts in the field, the book provides comprehensive information on the tribals (the indigenous populations of the region) and knowledge on plants that grow around them.

Apple Academic Press

**Market:** Healthcare

October 2017: 235 x 156: 2242pp

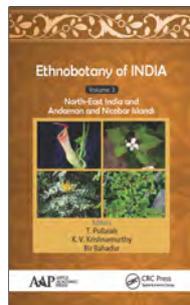
Hb: 978-1-771-88600-0: **£615.00**

eBook: 978-1-315-18662-7

\* For full contents and more information, visit: [www.crcpress.com/9781771886000](http://www.crcpress.com/9781771886000)

## Ethnobotany of India, Volume 3

North-East India and the Andaman and Nicobar Islands



Edited by **T. Pullaiah**, Point Pleasant, New Jersey, USA, **K. V. Krishnamurthy**, Bharathidasan University, Tiruchirappalli, India and **Bir Bahadur**, Kakatiya University, Warangal, Telangana, India

*Series: Ethnobotany of India*

*Ethnobotany of India: Volume 3: North-East India and Andaman and Nicobar Islands* is the third of a five-volume set of *Ethnobotany of India*. Bringing together in one place the important information on the ethnobotany of the North-East India and Andaman and Nicobar Island region of India, this informative volume presents the details of the tribes of the region, their numbers, their habitat, their culture, and particularly their usage of plants for various purposes.

Apple Academic Press

**Market:** Plant Science

August 2017: 229 x 152: 394pp

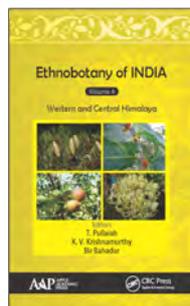
Hb: 978-1-771-88477-8: **£108.00**

eBook: 978-1-771-88478-5

\* For full contents and more information, visit: [www.crcpress.com/9781771884778](http://www.crcpress.com/9781771884778)

## Ethnobotany of India, Volume 4

Western and Central Himalayas



Edited by **T. Pullaiah**, Point Pleasant, New Jersey, USA, **K. V. Krishnamurthy**, Bharathidasan University, Tiruchirappalli, India and **Bir Bahadur**, Kakatiya University, Warangal, Telangana, India

*Series: Ethnobotany of India*

This important volume covers the ethnobotanical aspects of many plants of the region. It looks at ethnic diversity of people, ethnic food plants and food preparation, ethnomedical aspects of plants, psychedelic plants and their possible link to soma (a vedic ritual drink whose plant origins are a mystery), ethnoveterinary medicinal plants, ethno-conservation practices, and biodiversity heritage sites. The volume includes the details of the plants used, their scientific names, the parts used, and how the plants are used, providing the what, how, and why of plant usage. The book is well illustrated with 20 color and 67 b/w illustrations.

Apple Academic Press

**Market:** Alternative & Complementary Medicine

September 2017: 229 x 152: 496pp

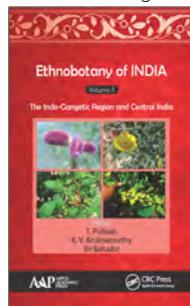
Hb: 978-1-771-88550-8: **£108.00**

eBook: 978-1-771-88551-5

\* For full contents and more information, visit: [www.crcpress.com/9781771885508](http://www.crcpress.com/9781771885508)

## Ethnobotany of India, Volume 5

The Indo-Gangetic Region and Central India



Edited by **T. Pullaiah**, Point Pleasant, New Jersey, USA, **K. V. Krishnamurthy**, Bharathidasan University, Tiruchirappalli, India and **Bir Bahadur**, Kakatiya University, Warangal, Telangana, India

*Series: Ethnobotany of India*

This fifth of a five-volume set on the ethnobotany of India brings together in one place information on the ethnobotany of the Indo-Gangetic Region and Central India, presenting the valuable details of the ethnobotanical aspects of many plants of the region. Expert authors have been selected to summarize information on the various aspects of ethnobotany of India, such as ethnoecology, traditional agriculture, cognitive ethnobotany, material sources, traditional pharmacognosy, ethnoconservation strategies, bioprospection of ethno-directed knowledge, and

documentation and protection of ethnobotanical knowledge.

Apple Academic Press

**Market:** Healthcare

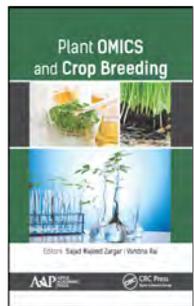
October 2017: 235 x 156: 694pp

Hb: 978-1-771-88599-7: **£131.00**

eBook: 978-1-315-18784-6

\* For full contents and more information, visit: [www.crcpress.com/9781771885997](http://www.crcpress.com/9781771885997)

## Plant OMICS and Crop Breeding



Edited by **Sajad Majeed Zargar**, Point Pleasant, New Jersey, USA and **Vandna Rai**, National Research Centre on Plant Biotechnology, IARI, New Delhi, India

Due to the advent of state-of-the-art technologies in the field of biotechnology, much progress has been achieved since the last decade. OMICS technologies are being extensively used to address various issues pertaining to agriculture. Recent advances in genomics, transcriptomics, proteomics, and metabolomics techniques have revolutionized the understanding of genetic response of plants to various biotic and abiotic stresses. Strategic application of this revolutionary technology will eventually lead towards attaining sustainability in agriculture. This new book, *Plant OMICS and Crop Breeding*, addresses this important issue.

Apple Academic Press

**Market:** Plant Science

June 2017: 235 x 156: 468pp

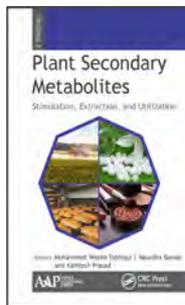
Hb: 978-1-771-88455-6: **£114.00**

eBook: 978-1-771-88456-3

\* For full contents and more information, visit: [www.crcpress.com/9781771884556](http://www.crcpress.com/9781771884556)

## Plant Secondary Metabolites, Volume Two

Stimulation, Extraction, and Utilization



Edited by **Mohammed Wasim Siddiqui**, Bihar Agricultural University, Sabour, India, **Vasudha Bansal**, Hanyang University in Seoul, South Korea and **Kamlesh Prasad**, Point Pleasant, New Jersey, USA

This second book in the three-volume *Plant Secondary Metabolites* covers the stimulation, extraction, and utilization of plant secondary metabolites, which are organic compounds that aid in the growth and development of plants but which are not required for the plant to survive by fighting off herbivores, pests, and pathogens. These plant secondary metabolites have been used since early times in various medicines and food products for beneficial health purposes and are still relevant and popular today.

Apple Academic Press

**Market:** Herbal Medicine

December 2016: 229 x 152: 318pp

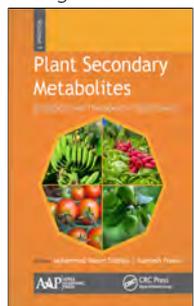
Hb: 978-1-771-88354-2: **£99.00**

eBook: 978-1-315-36631-9

\* For full contents and more information, visit: [www.crcpress.com/9781771883542](http://www.crcpress.com/9781771883542)

## Plant Secondary Metabolites, Volume One

Biological and Therapeutic Significance



Edited by **Mohammed Wasim Siddiqui**, Bihar Agricultural University, Sabour, India and **Kamlesh Prasad**, Point Pleasant, New Jersey, USA

This volume, *Plant Secondary Metabolites: Volume 1: Biological and Therapeutic Significance*, presents important information on the curative and therapeutic roles of secondary metabolites that are present in different natural food groups. The book showcases the applications of herbal-based food group and also includes the effective utility of other plant-based food categories as well. In addition to the clinical role of secondary metabolites, other natural sources, such as micro-algae and bacterial cellulose, are also presented as efficacious sources of functional components.

Apple Academic Press

**Market:** Herbal Medicine

December 2016: 229 x 152: 318pp

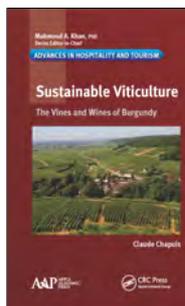
Hb: 978-1-771-88352-8: **£99.00**

eBook: 978-1-315-36632-6

\* For full contents and more information, visit: [www.crcpress.com/9781771883528](http://www.crcpress.com/9781771883528)

## Sustainable Viticulture

The Vines and Wines of Burgundy



**Claude Chapuis**, ESC Dijon, School of Wine and Spirits Business, Dijon, and Weekly Wine Commentator, RCF Radio Station, France

*Series: Advances in Hospitality and Tourism*

This new volume showcases the wine-growing culture of Burgundy. *Sustainable Viticulture: The Vines and Wines of Burgundy* covers the rich history and culture of the wine growing tradition of the region. The author, who has worked as a viticulturist in Burgundy, Switzerland, Germany, California, Australia, New Zealand and South Africa, tells the epic story of Burgundy, a 2000-year adventure with its ups and downs. The oldest vineyard discovered by archaeologists dates back to the first century A.D. By the third century, Burgundy wines were already famous in the Roman Empire. Burgundy was a powerful state in the 15th century, which was also a golden age for its viticulture.

Apple Academic Press

**Market:** Viticulture

July 2017: 229 x 152: 356pp

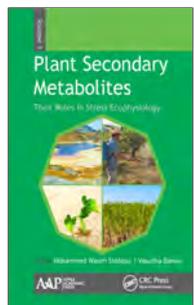
Hb: 978-1-771-88570-6: **£95.00**

eBook: 978-1-771-88571-3

\* For full contents and more information, visit: [www.crcpress.com/9781771885706](http://www.crcpress.com/9781771885706)

## Plant Secondary Metabolites, Volume Three

Their Roles in Stress Eco-physiology



Edited by **Mohammed Wasim Siddiqui**, Bihar Agricultural University, Sabour, India and **Vasudha Bansal**, Hanyang University in Seoul, South Korea

This third book in the three-volume *Plant Secondary Metabolites* examines the relationship between environmental stress and the physiology of plants, leading to stimulation of secondary metabolites. Various stressors are discussed, including plant and soil interfaces, changing climate elements, essential plant nutrients, pest insects, plant pathogens and microorganisms, and more. The chapters, written by experienced experts, also address the diverse utilization of plant-originated secondary metabolites and more.

Apple Academic Press

**Market:** Herbal Medicine

December 2016: 229 x 152: 272pp

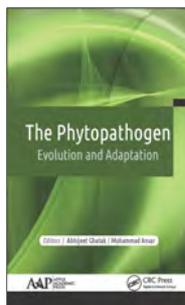
Hb: 978-1-771-88356-6: **£99.00**

eBook: 978-1-315-36630-2

\* For full contents and more information, visit: [www.crcpress.com/9781771883566](http://www.crcpress.com/9781771883566)

## The Phytopathogen

Evolution and Adaptation



Edited by **Abhijeet Ghatak**, Bihar Agricultural University (BAU), India and **Mohammad Ansar**, Bihar Agricultural University (BAU), India

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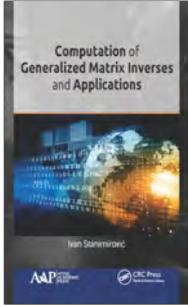
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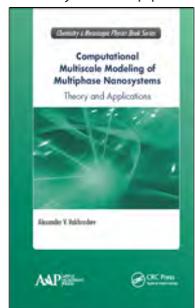
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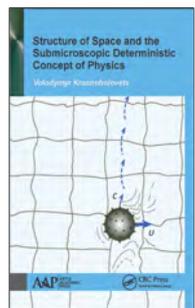
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Market: Physics

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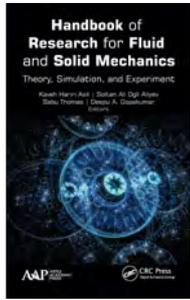
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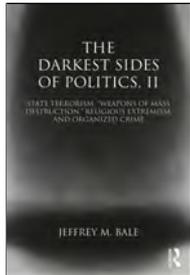
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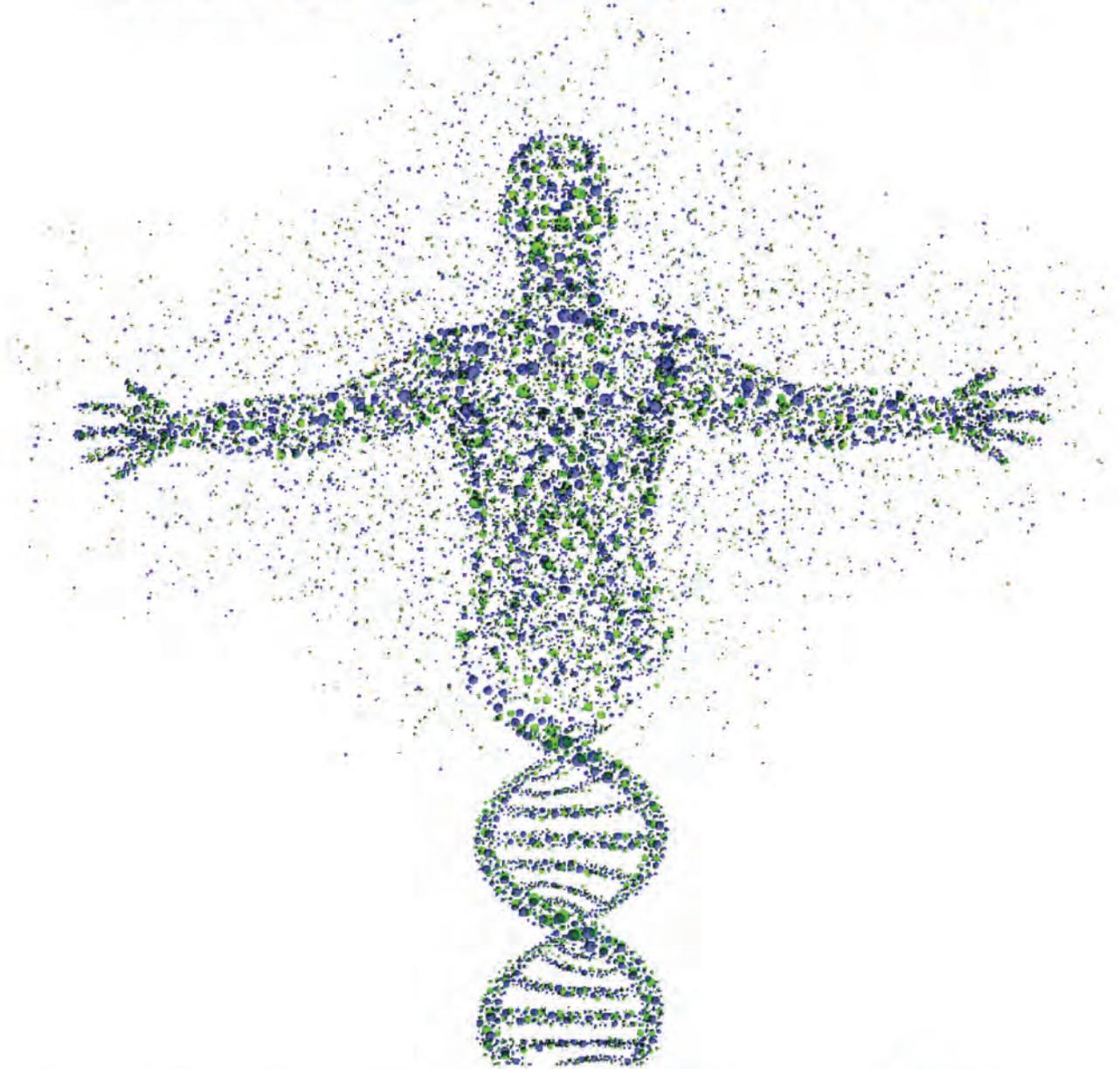
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