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Key new titles for 2015

**Domestic Animal Behaviour and Welfare, 5th Edition**

Donald M. Broom, Cambridge University, UK and Andrew F. Fraser, formerly Memorial University of Newfoundland, Canada

Now in its fifth edition, this book includes new chapters detailing the welfare of sheep, goats and exotic pets, and welfare in relation to genetic selection and modification. It covers animal behaviour and welfare for companion animals, farm animals and farmed fish, reviewing development, socialization, locomotion, reproduction and more.

**Improving Animal Welfare, 2nd Edition**

Edited by Temple Grandin, Colorado State University, USA

By taking an entirely practical approach, this textbook aims to help those working with animals to apply methods for improving welfare, bridging the gap between scientific research and practical application. This book provides a guide to practical evaluation and auditing of welfare problems for farmed animals, emphasizing the importance of measuring conditions that compromise welfare such as lameness, or the use of electric goads. This second edition is fully updated with new literature, new, up-to-date coverage of pain management, and the addition of a new chapter on animal welfare in organic farming systems.

**Vegetable Production and Practices**

Gregory E. Welbaum, Virginia Tech University, USA

This major new textbook brings the science and practice of vegetable production up to date by addressing modern culture techniques and the recent challenges of consumer demand facing producers today. It introduces vegetable production from the perspective of producing high quality produce that satisfies the needs of the modern consumer.
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An Introduction to Economics Concepts for Students of Agriculture and the Rural Sector

4th Edition

Berkeley Hill, formerly University of London, Imperial College, UK

Fully updated, this incorporates the impacts of the EU expansion, changes to financial support of agriculture, financial crises, economic recession and unemployment. The inclusion of chapter-focused exercises, essay questions and further reading make this textbook a valuable learning tool for students of agriculture, economics and related sectors.

October 2014 / PB / 240 pages / 9781780644752
£39.95 / €55.00 / $75.00

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The Nature of Crops

How we came to eat the plants we do

John Warren, Aberystwyth University, UK

Our ancestors chose to cultivate some plant species and not others. Through years of association with humans, these wild plants have been changed so that the crops we eat often hardly resemble their wild progenitors. Arranged into broad themes depicting the history of domestication, this book documents the history and biology of over 40 crops.

April 2015 / HB / 208 pages / 9781780645087
£45.00 / €60.00 / $85.00

April 2015 / PB / 208 pages / 9781780645094
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Climate Change Challenges and Opportunities at Farm-level Experiences from Asia and Africa

CABI Climate Change Series

Edited by Naveen P. Singh, ICRISAT, India, Cynthia Bantilan, ICRISAT, India, Kattarkandi Byjesh, ICRISAT, India and Swamikannu Nedumaran, ICRISAT, India

This book emphasizes the role of farm-level adaptation as a key in developmental pathways that are challenged by climate risks in the semi-arid tropics of Asia and Africa. It throws light on key issues that arise in farm-level impacts, adaptation and vulnerability to climate change. Chapters identify constraints and opportunities that are translated into indicative intervention recommendations towards climate-resilient farm households in the semi-arid tropics of Asia and Africa. Furthermore, it also discusses the development of livelihood strategy for poor farmers in Asia and Africa.

August 2015 / HB / 300 pages / 9781780644639
£95 / €125.00 / $180.00

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Wheat Production and Utilization Systems, Quality and the Environment, 2nd Edition

Mike Gooding, University of Reading, UK and W. Davies, Royal Agricultural College, UK

Global circumstances have changed; strengthening issues of environmental concerns, climate change, pressures on farming resources, food insecurity and grain market volatility. This new edition covers wheat quality requirements for world markets. A ‘food and processing chain’ approach will be adopted to relate the production system to the end-user.

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International Trade and Food Security

The Future of Indian Agriculture

Edited by Floor Brouwer, LEI-Wageningen UR, The Netherlands and Pramod K. Joshi, IFPRI, South Asia

The dynamics in the agrifood sector are explored in the context of the overall economy, taking into account agricultural and trade policies and their impact on national and global markets. Effects for income distribution in rural and urban areas are presented, as well as the future potential for international trade. The book also includes recent work on supply and demand projections for food grains and high-valued agrifood commodities in India.

August 2015 / HB / 276 pages / 9781780642826
£75 / €100.00 / $145.00

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Natural Products for Sustainable Crop Disease Management

Edited by V. Kurucheve, Annamalai University, India, G. Sangeetha and Jayaraj Jayaraman, The University of The West Indies, Trinidad and Tobago

Alternative methods of disease control such as natural products and compounds derived from biological origins, provide an effective alternate to the use of chemical products or a means to minimize their use. It is imperative now to look for such sustainable crop disease management approaches, that include routine and alternative methods. This book is an effort in this direction, and deals with immediate concerns in the field of natural and alternative products for disease control, apart from using biocontrol organisms. This book presents up-to-date information on natural products and compounds derived from biological origins and thoroughly discusses their applicability, field use and prospects for adoption under different cropping conditions.

July 2015 / HB / 376 pages / 9781780643236
£145 / €190.00 / $275.00

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Coping with Risk in Agriculture
Applied Decision Analysis
3rd Edition

J. Brian Hardaker, University of New England, Australia. Gudbrand Lien, Lillehammer University College, Norway, Jock R. Anderson, Consultant, USA and Ruud B.M. Huirne, Wageningen University, The Netherlands

Farmers face risks from the weather, crop and livestock performance, pests and diseases, as well as institutional, personal and business risks. This book includes updated chapters on theory and methods and a new chapter on the state-contingent approach to the analysis of production and the use of copulas to better model stochastic dependency.

March 2015 / PB / 272 pages / 9781780642406
£39.95 / €55.00 / $75.00
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Mites of Economic Plants
Identification, Bio-ecology and Control

Vincenzo Vacante, Mediterranean University, Italy

An encyclopedic reference on major mites, described by family in terms of internal and external morphology, bio-ecology and family systematics. Methods of mite collection and laboratory study are described, plus species diagnostic characteristics, world distribution, host plants, identification by type of damage they cause and control strategies.

September 2015 / HB / 700 pages / 9781845939946
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Climate Change and Agricultural Water Management in Developing Countries

CABI Climate Change Series


The book provides an analysis of impacts of climate change on water for agriculture, and the adaptation strategies in water management to deal with these impacts. Chapters include an assessment at global level, with details on impacts in various countries.

August 2015 / HB / 272 pages / 9781780643663
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Abiotic Stresses in Crop Plants

Edited by Usha Chakraborty and Bishwanath Chakraborty, University of North Bengal, India

This book reviews the biochemical and molecular mechanisms of tolerance of abiotic stresses in nature. Covering increasing temperature, flooding, drought, salinity, heavy metals and ozone, it discusses how these abiotic stresses can be managed in a cost-effective and eco-friendly way by microbes through their alleviation mechanisms.

April 2015 / c.264 pages / HB / 9781780643731
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Transition to Agricultural Market Economies
The Future of Kazakhstan, Russia and Ukraine

Edited by Andrew Schmitz, University of Florida, USA and William H. Meyers, University of Missouri, Colombia, USA

It is believed that the major countries of the former Soviet Union – specifically Kazakhstan, Russia and Ukraine (KRU region) – are the part of the world with the most potential to increase food supplies and strengthen world food security. This book examines the future of the KRU countries in global agricultural markets and examines a number of agricultural sectors. Particular attention is paid to the potential expansion of the grain sector and why the KRU region emerged during the 2000s as a major grain exporter, and its potential to further expand grain production and exports.

May 2015 / c.280 pages / HB / 9781780645353
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Water Dynamics in Plant Production
2nd Edition

Wilfried Ehlers, University of Göttingen, Germany and Michael Goss, University of Guelph, Canada

This new edition describes the basic scientific principles of water transport in the soil-plant-atmosphere continuum. It explains the linkage between transpirational water use and dry matter production paying particular attention to the various agronomic strategies for adaptation to climate-driven limitations of water resources.

August 2015 / HB / 272 pages / 9781780643816
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Transition Pathways towards Sustainability in Agriculture
Case Studies from Europe
Edited by Lee-Ann Sutherland, James Hutton Institute, UK, Ika Darnhofer, University of Natural Resources and Life Sciences, Austria, Geoff Wilson, University of Plymouth, UK and Lukas Zagata, Czech University of Life Sciences, Czech Republic

Using case studies from various countries in the EU the book adopts a novel analytical approach based on transition management theory. It discusses the importance of understanding transition pathways towards sustainability in European agriculture at a time of economic recession, migration of young people from rural areas, and increasing global competition in agro-commodity chains. It also discusses the utility of transition management concepts for addressing contemporary issues, and identifies future research needs and possible approaches.

November 2014 / HB / 242 pages / 9781780642192
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Conservation Agriculture
Global Prospects and Challenges
Edited by Ram A. Jat, Directorate of Groundnut Research India, Kanwar L. Sahrawat, ICRISAT, India and Amir H. Kassam, University of Reading, UK and FAO, Rome, Italy

The book covers the spread of conservation agriculture (CA) to regions including Brazil, Argentina, Canada, Australia, Europe and emerging CA destinations in Asia and Africa. Topics covered include the various components of CA, and how their individual and combined implementation influence productivity, soil health and environmental quality under diverse edaphic and climatic conditions. The book will be useful to teachers, researchers, extensionists, farmers and students interested in environmental quality.

December 2013 / HB / 242 pages / 9781780642598
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Promoting Investment in Agriculture for Increased Production and Productivity
Co-published with The Food and Agriculture Organization of the United Nations Saifullah Syed and Masahiro Miyazako, both Investment Centre Division, FAO, Italy

Covering the development of sustainable agriculture, food production and food security, this book explains the relationship between all levels of investment and their interdependence to be successful. It also describes how to drive increased investment, at what stage and where, providing a useful overview of investment in agriculture.

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Climate Change Impact and Adaptation in Agricultural Systems
CABI Climate Change Series
Edited by Jürg Fuhrer, Oeschger Center for Climate Change Research, University of Bern, Switzerland and Peter Gregory, University of Reading, UK

This book focuses on future global climate change and its implications for agricultural systems which are the main sources of agricultural goods and services to society. This book brings together a series of chapters providing scientific insights to possible implications of projected climate changes for different crop types and livestock systems.

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Realizing Africa’s Rice Promise
Edited by Marco C.S. Wopereis, Africa Rice Center (AfricaRice), Benin, David Johnson, International Rice Research Institute (IRRI), Philippines, Nourallah Ahmadi, Centre de Coopération Internationale en Recherche Agronomique pour le Développement (Cirad), France, Eric Tollens, Catholic University of Leuven, Belgium and Abdulai Jalloh, West and Central African Council for Agricultural Research and Development (CORAF/ WECARD), Senegal

Aimed at researchers, policy makers, agricultural ministries, donors, regional and sub-regional organizations, non-governmental development organizations and universities – this book provides an overview of state-of-the-art research and recommendations for handling future challenges in Africa’s food security.

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Sustainable Animal Agriculture
Edited by Ermias Kebeab, University of California Davis, USA

Sustainable Animal Agriculture covers practical topics such as air quality, manure management, animal feeds, production efficiency, environmental sustainability, biotechnology issues, animal welfare concerns, societal impacts and an analysis of the data used to assess the economic sustainability of farms.

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Rural Women in Leadership
Positive Factors in Leadership Development
Edited by Lori Ann McVay, Spring Arbor University, USA
Rural women and leadership have, in recent years, come to be the focus of development initiatives in many countries. Citing examples from a case study in Northern Ireland, this book gives voice to the many vital, positive elements in rural women’s leadership development.

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Banana Systems in the Humid Highlands of Sub-Saharan Africa: Enhancing Resilience and Productivity addresses issues related to agricultural intensification in the (sub)humid highland areas of Africa, based on research carried out in the Great Lakes Region by the Consortium for Improving Agriculture-based Livelihoods in Central Africa.

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Raymond A.T. George, formerly FAO Rome, Italy and Roland T.V. Fox, formerly University of Reading, UK

Containing an extensive range of photographs and authored by leading horticultural experts, this title is an indispensable reference work for horticultural professionals, academics, students, crop producers and amateur horticulturists. The diseases of major crops are presented by classification, symptoms, causal pathogen and control measures.

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Edited by Pravendra Nath, National Botanical Research Institute, India, Mondher Bouzayen, INRA, France, Autar Mattoo, USDA, Jean Claude Pech, ENSA, France

There are fast-moving developments in knowledge of the factors affecting fruit ripeness, and this up-to-date monograph draws together the disparate research in this area. The result is a comprehensive account covering almost every area related to fruit ripening including the latest molecular mechanisms regulating fruit ripening, its impact on human nutrition and emerging research and technologies.

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www.cabi.org/bookshop/book/9781845939625

Principles of Tropical Horticulture
Modular Texts
David J. Midmore, University of Reading, UK

Focusing on the principles behind production practices and their scientific basis, rather than detailed biological traits of each crop, this text outlines successes and failures in practices to date and sets out how the quantity and quality of horticultural produce can improve in the future.

February 2015 / HB / 352 pages / 9781780645414
£85.00 / €110.00 / $160.00
February 2015 / PB / 352 pages / 9781845935153
£39.95 / €55.00 / $85.00
www.cabi.org/bookshop/book/9781780645414
The Potato
Botany Production and Uses
Edited by Roy Navarre, USDA-ARS and Washington State University, USA and Mark J. Pavek, Washington State University, USA
Covering all aspects of botany, production and uses, this book presents a broad discussion of the most important topics for potato researchers and professionals. It assesses the latest research on plant growth, water use and seed production; covers all aspects of pest management and reviews postharvest issues and nutritional value and flavour.
December 2014 / HB / 400 pages / 9781780642802
£95 / €125 / $180
www.cabi.org/bookshop/book/9781780642802

Analytical Techniques for Natural Product Research
Satyanshu Kumar, Directorate of Medicinal and Aromatic Plants Research, India
Plants are an important source of lead molecules for drug discovery. These lead molecules serve as starting materials for laboratory synthesis of drugs as well as a model for production of biologically active compounds. Phytochemical processing of raw plant materials is essentially required to optimize the concentration of known constituents and also to maintain their activities. Extraction techniques and analytical techniques have played critical roles in phytochemical processing of raw materials. Extraction technologies from conventional extraction to green extraction as well as analytical techniques from single technique to hyphenated/coupled techniques most frequently used in phytochemistry laboratories are covered in the book.
August 2015 / HB / 280 pages / 9781780644738
£75 / €100.00 / $145
www.cabi.org/bookshop/book/9781780644738

Plants as a Source of Natural Antioxidants
Nawal Kishore Dubey, Banaras Hindu University, India
A comprehensive overview of the health effects of plant-based antioxidants, this book reviews medicinal and aromatic plants from around the world. It covers the different sources of antioxidants, the role of abiotic and biotic stresses, endophytes, transgenic approaches in scavenging ROS and antioxidant plants used in different therapeutic systems.
December 2014 / HB / 280 pages / 9781780642666
£85 / €110.00 / $160
www.cabi.org/bookshop/book/9781780642666

Tomatoes
2nd Edition
Crop Production Science in Horticulture
Edited by Ep Heuvelink, Wageningen University, The Netherlands
Tomatoes are one of the most important horticultural crops, grown in vast quantities worldwide. This new edition covers genetics and breeding, crop growth and yield, irrigation and fertilization, fruit ripening and quality, and postharvest biology and handling. Updated throughout, it also includes a new chapter on organic tomato production.
July 2015 / PB / 320 pages / 9781780641935
£45 / €60.00 / $85
www.cabi.org/bookshop/book/9781780641935

Bioenergy and Biological Invasions
Ecological, Agronomic and Policy Perspectives on Minimizing Risk
CABI Invasives Series
Edited by Lauren D. Quinn, University of Illinois, USA, David P. Matlaga, Susquehanna University, USA and Jacob N. Barney, Virginia Tech, USA
A cohesive state-of-the-art review of the invasive potential of bioenergy crops, this book covers the identified risks of invasion, distributions of key crops and management issues. Including a section on developing predictive models, this book also assesses the potential societal impact of bioenergy crops and how to mitigate invasive risks.
February 2015 / HB / 200 pages / 9781780643304
£75 / €100.00 / $145
www.cabi.org/bookshop/book/9781780643304

Tropical and Subtropical Fruits Postharvest
Physiology and Technology
Sunil Pareek, Maharana Pratap University of Agriculture & Technology, India, A. Keith Thompson, Cranfield University, UK, Dharini Sivakumar, Tshwane University of Technology, South Africa, Noureddine Benkeblia, University of West Indies, Mona Campus, Jamaica and Mohammed El-Otmani, Agricultural and Veterinary Institute Hassan II, Morocco
Covering 15 of the most important tropical fruits, this book describes their importance, phytochemistry, bioactive compounds, nutritive value, uses and important cultivars. It reviews the postharvest diseases and physiological disorders for each fruit and postharvest physiology such as respiration, ethylene production and ripening are discussed.
December 2015 / HB / 600 pages / 9781780642925
£155 / €200.00 / $295
www.cabi.org/bookshop/book/9781780642925
Urban Insect Pests
Sustainable Management Strategies
Partho Dhang, Independent Consultant, Philippines
A companion to Urban Pest Management, this book builds on the issues of insect pests in urban settings to discuss control strategies. From an environmental and health perspective, it is not always practical to spray chemicals, so this work discusses sustainable control and best practice methods for managing insects.

September 2014 / PB / 232 pages / 9781780642758
£85 / €110.00 / $160
www.cabi.org/bookshop/book/9781780642758

Naturally Occurring Insecticidal Toxins
Opender Koul, Insect Biopesticide Research Centre, Jalandhar, India
This book on insecticidal toxins from natural sources is a complete review of the subject. Containing 500 chemical structures, it examines toxins from sources such as plants, microorganisms and marine flora and fauna and includes chapters on bioassays, concepts of insecticidal activity, structure activity relationships and commercial aspects.

September 2015 / HB / 232 pages / 9781780642703
£155 / €200.00 / $295
www.cabi.org/bookshop/book/9781780642703

The Pesticide Encyclopedia
Vasant Gowariker, TIFAC, DST, Government of India, India, V.N. Krishnamurthy, Sudha Gowariker, and Kalyani Paranjape, all independent consultants, India
Food security is an increasingly important global issue, with 40% of all food grown lost to plant pests and diseases. The Pesticide Encyclopedia provides a comprehensive overview of substances utilized in fighting pests, including chemical pesticides, biocontrol agents and biopesticides, plus IPM techniques and pesticide resistance.

January 2015 / HB / 640 pages / 9781780640143
£195 / €255 / $370
www.cabi.org/bookshop/book/9781780640143

UK Pesticide Guide 2015
Edited by Martin L. Lainsbury
The UK Pesticide Guide is the most authoritative source of information on pesticides and adjuvants for UK agriculture, horticulture, forestry and amenity use. Edited by a leading authority in the field, this new edition is thoroughly updated with new active ingredient listings, including some new combinations of existing actives.

January 2015 / PB / 800 pages / 9781780645773
£49.50 / €65 / $95
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Applied Plant Virology
Modular Texts
Calum Rae Wilson, University of Tasmania, Australia
A practically-oriented book, this text covers how viruses work and interact with plants as well as how they induce disease and spread in the field, how virus epidemics can be studied, losses and spread measured and monitored, and control options implemented.

August 2014 / HB / 192 pages / 9781780644257
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August 2014 / PB / 192 pages / 9781845939915
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www.cabi.org/bookshop/book/9781780644257

Fungicides in Crop Protection
2nd Edition
Richard P. Oliver, Curtin University, Australia and H.G. Hewitt, University of Reading, UK
This book provides a concise and balanced review of fungicides and their application. It describes the science of fungicide use, selection and resistance within the context of farming situations, with major updates reflecting the emergence of new fungicides (strobilurins and SDHI) and the increased incidence of fungicide resistance.

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Invasive Plant Species
A Reference Guide to Environmental Weeds
2nd Edition
Ewald Weber, University of Potsdam, Germany

Invasive plant species cause severe disruption to natural and managed ecosystems. A full-colour reference guide to the major invasive plants, this book includes over 500 economically and environmentally important species. It provides illustrations, synonyms, geographical distribution, habitats invaded, morphology, ecology and references for each.

December 2015 / HB / 608 pages / 9781780643861
£195 / €255.00 / $375
www.cabi.org/bookshop/book/9781780643861

Biocontrol Agents of Phytonematodes
Edited by Tarique Hassan Askary, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), India and P.R.P. Martinelli, Universidade Estadual Paulista (FCAV -UNESP), Brazil

Highlighting the use of biocontrol agents as an alternative to chemical pesticides in the management of plant nematodes, this book reviews current progress and developments. Each biocontrol agent, i.e. nematophagous fungi, parasitic bacteria, predaceous mites, rhizobacteria, mycorrhiza and predaceous nematodes, has been described separately.

May 2015 / HB / 500 pages / 9781780643755
£145 / €190.00 / $275
www.cabi.org/bookshop/book/9781780643755

Amino Acids in Higher Plants
Edited by J.P.F. D’Mello, Formerly of SAC (Scottish Agricultural College), Edinburgh

Amino acids play a role in the defence mechanisms and stress responses of plants, as well as in food quality and safety for humans and animals. This book collates chapters on plant enzymes and metabolism, modulation, molecular aspects, secondary products, ecology, the environment and mammalian nutrition and toxicology.

March 2015 / HB / 640 pages / 9781780642635
£135 / €175.00 / $255
www.cabi.org/bookshop/book/9781780642635

Molecular Methods in Plant Disease Diagnostics
Principles and Protocols Series
Edited by Neil Boonham, Jenny Tomlinson and Rick Mumford

Molecular diagnostics of plant diseases have helped by increasing the efficacy, accuracy or speed of diagnosis, while their common technological basis also reduces reliance on staff with very specialist skills. This book provides protocols for the majority of nucleic-acid-based methods applied to plant pathogen detection and identification.

September 2015 / PB / 300 pages / 9781780641478
£39.95 / €55.00 / $75
www.cabi.org/bookshop/book/9781780641478

Brassica Oilseeds Breeding and Management
Edited by Arvind Kumar, Indian Council of Agricultural Research, India, Surinder S. Banga, Punjab Agricultural University, India, Prabhu Dayal Meena, Directorate of Rapeseed-Mustard Research (ICAR), India and Priya Ranjan Kumar, Formerly of Indian Council of Agricultural Research, India

This book is applied and covers the entire gamut of oilseed brassicas, including breeding, heterosis, selection methods, genomics, stress management as well as the important pathogens. Brassica Oilseeds Breeding and Management has 12 chapters, organized in two sections: Genetics and genomics and Stress management. Section one deals with issues relating to brassica productivity in terms of genetic constraints, germplasm enhancement options and molecular breeding. Section two emphasizes stress management.

May 2015 / HB / 250 pages / 9781780644837
£85 / €110.00 / $160
www.cabi.org/bookshop/book/9781780644837

Potato and Sweetpotato in Africa
Transforming the Value Chains for Food and Nutrition Security
Edited by Jan Low, International Potato Center, Kenya, Moses Nyongesa, Kenya International Research Institute, Kenya, Sara Quinn and Monica Parker

Sweetpotato and potato are expanding faster than any other food crops in sub-Saharan Africa. There is growing investment in research to address bottlenecks in value chains concerning these two crops, and growing interest from the private sector in investing in them. This book addresses five major themes on sweetpotato and potato: policies for germplasm exchange, food security and trade in Africa; seed systems; breeding and disease management; post harvest management, processing technologies and marketing systems; nutritional value and changing behaviours.

May 2015 / c.584 pages / HB / 9781780644202
£135 / €175 / US$255
www.cabi.org/bookshop/book/9781780644202
Biosecurity Surveillance
Quantitative Approaches
CABI Invasives Series
Edited by Frith Jarrad, Sama Low Choy and Kerrie Mengersen, Queensland University of Technology, Australia
This book provides practical and innovative approaches to biosecurity surveillance. It explains the foundation and concepts behind surveillance design, with examples of methods and tools created to deal with surveillance challenges. With supporting case studies, it covers detectability, single and multi-species detection and risk assessment.
February 2015 / c.272 pages / HB / 9781780643946
£85 / €110 / US$160
www.cabi.org/bookshop/book/9781780643946

Pest Risk Modelling and Mapping for Invasive Alien Species
CABI Invasives Series
Edited by Robert C. Venette, USDA Forest Service, USA
New pests and pathogens place biological pressure on resident species, but strict bans may conflict with trading and travel needs. An overview of how the conflict can be managed using pest risk mapping and modelling, this book uses worked examples to explain modelling and help development of tool kits for assessment.
March 2015 / c.256 pages / HB / 9781780643946
£85 / €110 / US$160
www.cabi.org/bookshop/book/9781780643946

Bt resistance
Characterization and Strategies for GM Crops Expressing Bacillus thuringiensis Toxins
CABI Biotechnology Series
Edited by Mario Soberón, Instituto de Biotecnología UNAM, Mexico, Yulin Gao, Chinese Academy of Agricultural Science, China and Alejandra Bravo, Universidad Nacional Autónoma de México, Mexico
This book describes the use of Bacillus thuringiensis (Bt) crops and the emerging problem of resistance, recent progress in understanding the mechanism of action of Bt toxins, different resistance mechanisms and strategies to cope with resistance in the field. It describes resistant insects found in the field in different countries, particularly in the developing world, and ways to counter resistance such as gene stalking, refuges, modified toxins and gene discovery of novel toxins with different mode of action.
May 2015 / c.208 pages / HB / 9781780644370
£75 / €100 / US$145
www.cabi.org/bookshop/book/9781780644370

Exotic Fruits and Nuts of the New World
Robert E. Paull, University of Hawaii at Manoa, USA and Odilio Duarte, Escuela Agrícola Panamericana – El Zamorano, Honduras
This book is a major reference work on exotic and underutilized fruits and nuts of the New World. While many of these are well known in the local markets and in Spanish-language literature, they have rarely been brought to the attention of the wider English-speaking audience, and as such this book will offer an entirely new resource to those interested in exotic crops.
January 2015 / HB / 312 pages / 9781780645056
£95 / €125.00 / $180
www.cabi.org/bookshop/book/9781780645056

Plant Adaptation to Environmental Change
Significance of Amino Acids and their Derivatives
Edited by Naser A. Anjum, University of Aveiro, Portugal, Sarvajeet Singh Gill and Ritu Gill, MD University, India
Plants constantly cope with unfavourable ecosystem conditions, preventing them reaching full genetic potential for growth, development and productivity. This book covers plants‘ responses to environmental changes, gathering the most recent developments. It is an important resource for researchers and students of crop stress and plant physiology.
January 2014 / HB / 344 pages / 9781780642734
£115 / €150.00 / $220
www.cabi.org/bookshop/book/9781780642734

Plant-derived Pharmaceuticals
Principles and Applications for Developing Countries
CABI Biotechnology Series
Edited by Kathleen L. Hefferon, Visiting scientist, University of Toronto, Canada
Describing developments in the engineering and generation of plants as production platforms for biopharmaceuticals, this book includes vaccines and monoclonal antibodies. It discusses targeting diseases which predominate in less developed countries, encompassing the current state of technologies and describing expression systems and applications.
October 2014 / HB / 192 pages / 9781780644334
£75 / €100.00 / $145
www.cabi.org/bookshop/book/9781780644334
Phytochemicals of Nutraceutical Importance
Edited by Dhan Prakash and Girish Sharma

Nutraceuticals are bioactive phytochemicals that protect or promote health and occur at the intersection of food and pharmaceutical industries. This book will cover a wider spectrum of human health and diseases including the role of phytonutrients in the prevention and treatment. The book includes chapters dealing with biological and clinical effects, molecular level approaches, quality assurance, bioavailability and metabolism of a number of phytochemicals and their role to combat different diseases.

February 2014 / HB / 376 pages / 9781780643632
£125 / €165 / $240
www.cabi.org/bookshop/book/9781780643632

Nutrient Deficiencies of Field Crops
Guide to Diagnosis and Management
Prakash Kumar, District Agriculture Office, India and Manoj Kumar Sharma, Department of Agriculture, India

Richly illustrated with 600 colour photographs, this book is a visual field identification guide for symptoms of the most common nutrient deficiencies in field crops, covering all their stages of occurrence. Detailed descriptions and suggestions for management practices are given with each entry.

December 2013 / HB / 400 pages / 9781780642789
£130 / €170 / $250
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Seeds, 3rd Edition
The Ecology of Regeneration in Plant Communities
Edited by Robert S. Gallagher, Formerly of The Pennsylvania State University, USA

This 3rd edition highlights many advances in the field of seed ecology and its relationship to plant community dynamics over recent years. It features chapters on seed development and morphology, seed chemical ecology, implications of climate change on regeneration, and the functional role of seed banks in agricultural and natural ecosystems.

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Green Biosynthesis of Nanoparticles
Mechanisms and Applications
Edited by Mahendra Rai, SGB Amravati University, India and Clemens Posten, Karlsruhe Institute of Technology, Germany

This book includes green synthesis of nanoparticles by algae, diatoms and plants. The mechanism behind the synthesis of nanoparticles will also be discussed. It is a valuable resource for students, researchers and teachers of biology, chemistry, chemical technology, nanotechnology, microbial technology and those who are interested in green nanotechnology.

December 2013 / HB / 248 pages / 9781780642239
£99.95 / €130 / $190
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Biological Control Programmes in Canada 2001-2012
Edited by Peter G. Mason and David R. Gillespie, both Agriculture and Agri-Food Canada, Canada

Canada is a world leader in biological control research. Reporting the status of biocontrol agents released in Canada over the last decade, this book presents case studies by target pest that evaluate the impact of biocontrol and recommend future priorities.

October 2013 / HB / 544 pages / 9781780642574
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Plant Nematology 2nd Edition
Edited by Roland Perry, Rothamsted Research, UK and Maurice Moens, Institute for Agricultural and Fisheries Research, Belgium

An updated edition with current information on plant-parasitic nematodes, divided into three sections: taxonomy and principal genera, nematode biology and plant response, and sampling and management strategies.

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Phytochemicals of Nutraceutical Importance
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October 2013 / PB / 568 pages / 9781780641539
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Hemp
Industrial Production and Uses
Edited by Pierre Bouloc, Serge Allegret and Laurent Arnaud, La Chanvriere de L’Aube (LCDA), France
This book brings together international experts to examine all aspects of industrial hemp production, including the origins of hemp production, as well as the botany and anatomy, genetics and breeding, quality assessment, regulations, and the agricultural and industrial economics of hemp production.
September 2013 / HB / 328 pages / 9781845937935
£90 / €115 / $170
September 2013 / PB / 328 pages / 9781845937928
£45 / €60 / $85
www.cabi.org/bookshop/book/9781845937935

Biological Control of Plant-parasitic Nematodes
Soil Ecosystem Management in Sustainable Agriculture
2nd Edition
Graham R. Stirling, Biological Crop Protection Pty Ltd
This book integrates soil health, sustainable agriculture, nematode ecology and suppressive services provided by the soil food web to provide holistic solutions. With particular focus on integrated soil biology management, it describes how to enhance the activity of natural enemies and use soil biological processes to reduce losses from nematodes.
May 2014 / HB / 536 pages / 9781780644158
£125 / €165 / $240
www.cabi.org/bookshop/book/9781780644158

Principles of Horticultural Physiology
Edward F. Durner, Rutgers, The State University of New Jersey, USA
This accessible textbook covers applied aspects of physiology related to horticultural crops. It discusses specific physiological processes in relation to horticultural management, maintaining a focus throughout on how horticultural practices influence plant productivity and quality.
June 2013 / HB / 416 pages / 9781780643069
£99.95 / €130 / $190
June 2013 / PB / 416 pages / 9781780640259
£45 / €60 / $85
www.cabi.org/bookshop/book/9781780643069

Trichoderma
Biology and Applications
Edited by Prasun K. Mukherjee, Central Institute for Cotton Research, India, B.A. Horwitz, Israel Institute of Technology, Israel, U.S. Singh, IRRI, India, Mala Mukhejee, Central Institute for Cotton Research, India and Monika Schmoll, AIT, Austria
Trichoderma spp. are biotechnologically significant fungi widely used both in agriculture and in industry. These microbes are also a potential drug source of clinical importance. In recent years, research on these fungi has opened new avenues for its varied applications. This book is an essential ready reference work for researchers, students and people from industry.
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Parasitic Nematodes
Molecular Biology, Biochemistry and Immunology
Edited by Malcolm W. Kennedy, University of Glasgow, UK and William Harnett, University of Strathclyde, UK
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Natural Antioxidants and Biocides from Wild Medicinal Plants
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This book provides an up-to-date treatment of antioxidant and biocidal compounds from Latin American plants. Descriptions are given for antioxidants with medicinal and biocidal properties; peptides with insecticidal and antimicrobial properties; and phytoecdysteroids, alkaloids, polyphenols and terpenoids with allelochemical properties.
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David Hemming, CABI, UK

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Edited by Kurt Lamour, University of Tennessee, USA

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Crop Production Science in Horticulture

Edited by Richard C. Funt, Ohio State University, USA and Harvey K. Hall, Shekinah Berries Ltd, New Zealand

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Botany, Production and Uses

2nd Edition

Edited by Bruce Schaffer, University of Florida, USA, B. Nigel Wolstenholme, University of KwaZulu-Natal, South Africa and Anthony W. Whiley, Sunshine Horticultural Services Pty Ltd, Australia

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Tropical and Savannah Ecosystems
Edited by Francis Q. Brearley and Andrew D. Thomas, Manchester Metropolitan University

This book examines the effects that land-use changes (notably agricultural intensification, logging, soil erosion, urbanization and mining) have on soil characteristics and processes in tropical and savannah environments. It covers a range of geographical regions and environments as impacts of land-use change are often site specific.

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Sina M. Adi, University of Saskatchewan, Canada

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Soil Carbon
Science, Management and Policy for Multiple Benefits
Edited by Steven A. Banwart, University of Sheffield, UK, Elke Noellmeyer, The National University of La Pampa, Argentina and Eleanor Milne, University of Leicester, UK and Colorado State University, USA

This book brings together the essential evidence and policy opportunities regarding the global importance of soil carbon for sustaining essential ecosystems services. Covering the science and policy background for this important natural resource, it describes land management options that improve soil carbon status.

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Trees for Society and the Environment
Edited by J.G. Isebrands, Environmental Forestry Consultants, LLC, USA and J. Richardson, J Richardson Consulting, Canada

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February 2014 / HB / 656 pages / 9781780641089
£135 / €175.00 / $255
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Plant Genetic Resources and Climate Change
CABI Climate Change Series
Edited by Michael Jackson, previously International Rice Research Institute, The Philippines, Brian V. Ford-Lloyd, University of Birmingham, UK and Martin L. Parry, Imperial College London, UK

This book addresses the current state of climate change predictions, and how climate change will affect conservation and use of crop germplasm, both ex situ and in situ. Examples of germplasm research related to ‘climate change threats’ are also highlighted.

December 2013 / HB / 312 pages / 9781780641973
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Applications for Forestry and Natural Sciences
A. Kozak, R. Kozak, S. Watts and Christina Stadhammer

With interest growing in areas of forestry, conservation and other natural sciences, the need to organize and tabulate large amounts of forestry and natural science information has become a necessary skill. This book utilizes basic descriptive statistics and probability, as well as commonly used statistical inferential tools to introduce topics that are commonplace in a forestry context.

January 2012 / PB / 448 pages / 9781780640518
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2nd Edition
Peter S. Savill, Chairman, British and Irish Hardwoods Improvement Programme, UK

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2nd Edition
F. Ross Wylie, Queensland Government, Australia and Martin R. Speight, University of Oxford, UK

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Edited by Paolo Gonthier and Giovanni Nicolotti, University of Torino, Italy

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June 2013 / HB / 672 pages / 9781780640402
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Edited by Roger Sands, New Zealand School of Forestry, University of Canterbury, New Zealand

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Clive J.C. Phillips, University of Queensland, Australia

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The Many Hosts of Mycobacteria

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This book covers members of the Mycobacterium tuberculosis complex (MTC) and Mycobacterium leprae across a wide range of host species. M. tuberculosis and Mycobacterium bovis are considered in regards to increasing drug resistance, HIV co-infection associated with M. tuberculosis and the possible cross-infection of badgers and cattle associated with M. bovis.

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One Health
The Theory and Practice of Integrated Health Approaches
Edited by Jacob Zinsstag, Swiss Tropical and Public Health Institute, Switzerland, E. Schelling, Swiss Tropical and Public Health Institute, Switzerland, D. Waltner-Toews, University of Guelph, Canada, M. Whittaker, University of Queensland, Herston, Australia, M. Tanner, Swiss Tropical and Public Health Institute, Switzerland
This book examines the origins of One Health and includes practical content on methodological tools, data gathering, monitoring techniques, study designs and mathematical models. Discussing how to put policy into practice, zoonotic diseases and real-world issues such as sanitation, food security and vaccination programmes are covered in detail.
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Andy Herring, Texas A&M University
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Marit Emilie Buseth and Richard Saunders
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Steven McOrist, Consultant pig veterinarian, formerly University of Nottingham, UK
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Nicky B. Buller, Department of Agriculture and Food, Western Australia, Australia
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This new edition of *Diseases and Disorders of Finfish in Cage Culture* is a timely update due to important advances in the understanding of infectious diseases of finfish. The content has been significantly updated to reflect current knowledge and the developments in the fish production industry in the last 10 years, including the dramatic increases in production in the Asia-Pacific region.

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**Sentience and Animal Welfare**

**Donald M. Broom**, University of Cambridge Veterinary School, UK

Sentience – the ability to feel, perceive and experience – is central to the animal welfare debate. This book investigates and defines aspects of sentience such as consciousness, memory and emotions, and discusses brain complexity in detail. It looks at sentience from a developmental perspective and includes a chapter on ethical decisions.

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**Ram C. Bhujel**, Asian Institute of Technology (AIT), Thailand

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Edited by **Peter J. Chenoweth**, Cheno Vet, Australia and **Steven Lorton**, Reproduction Resources, USA

Understanding animal andrology is fundamental to optimizing genetic breeding traits in domestic and wild animals. This book provides extensive coverage of male reproductive biology, discussing the essentials of sperm production, harvest and preservation before covering the applications to a range of animals including cattle, horses, pigs, small ruminants, camels, cats and dogs, poultry and exotic species. It also examines the laboratory procedures that provide the basis of general fertility research.

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Dilemmas in Animal Welfare
Edited by Michael C. Appleby, World Society for the Protection of Animals (WSPA), UK, Daniel M. Weary, The University of British Columbia, Canada and Peter Sandøe, University of Copenhagen, Denmark

There are endless on-going debates in animal welfare. This book seeks to distil some of the major themes of current debate into one volume edited by internationally known names in the field of animal welfare. Each chapter, written by a leading expert, will discuss in an open-handed way a provocative topic, which will be of interest to anyone concerned with animal welfare. Issues covered include tail docking, pet obesity, isolation vs group aggression, neutering feral cats and the need to conserve wildlife habitats in the face of wild animal overpopulation.

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3rd Edition
Raphael A. Mrode, Scottish Agricultural College, Edinburgh, UK

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Veterinary Treatment of Pigs
Graham R. Duncanson, Westover Veterinary Centre, UK

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Richard A.I. Drew and Meredith C. Romig, Griffith University, Australia

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Catherine Tiplady, Centre for Animal Welfare and Ethics, University of Queensland, Australia

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Ruth Harrison and Marion Stamp-Dawkins, University of Oxford, UK

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Richard C. Russell, University of Sydney, Australia, Domenico Otranto, University of Bari, Italy and Richard Wall, University of Bristol, UK

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James I. McNitt, Steven D. Lukefahr, Peter Robert Cheeke and Nephi M. Patton,
Oregon State University, USA

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Edited by Vijai Kumar Gupta, University of Ireland Galway, Ireland. Devrajan Thangadurai, Karnataka University, India. Gauri Dutt Sharma, Bilaspur University, India and Rajeeva Gaur, Dr RML Avadh University, India

Microbial technology has an integral role in the development of biotechnology, bioengineering and biomedicine. This book provides a detailed compendium of the methods, biotechnological routes and processes used to investigate microbial applications. It covers the applied aspects of microorganisms in the health, industry and environmental sectors.

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Tuberculosis, Leprosy and Mycobacterial Diseases of Man and Animals
The Many Hosts of Mycobacteria
Edited by Harshini Makundan, Los Alamos National Laboratory, USA. Mark Chambers, Ray Waters, USDA, USA and Michelle Larsen, Albert Einstein College of Medicine, USA

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Edited by Harsha Kharkwal, Amity University, Uttar Pradesh, India and Srinivas Janaswamy, Purdue University, USA

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Metabolomics and Systems Biology in Human Health and Medicine
Edited by Oliver A.H. Jones, RMIT University, Australia

This book provides a solid introduction to medical metabolomics and systems biology, and demonstrates how they have been applied to studies in medicine and human health, including nutrition and pathogenic microorganisms. Following core themes of diagnosis, pathology and aetiology of disease, this book provides a reference in how to use metabolomics for medical research.

November 2014 / HB / 200 pages / 9781780642000
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Microbial Bioresources
Edited by Vijai Kumar Gupta, University of Ireland Galway, Ireland. Devrajan Thangadurai, Karnataka University, India. Gauri Dutt Sharma, Bilaspur University, India and Rajeeva Gaur, Dr RML Avadh University, India

Microbial technology has an integral role in the development of biotechnology, bioengineering and biomedicine. This book provides a detailed compendium of the methods, biotechnological routes and processes used to investigate microbial applications. It covers the applied aspects of microorganisms in the health, industry and environmental sectors.

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Edited by Federico Bozzetti, Hospital of Prato, Italy, Michael Staun, Rigshospitalet, Denmark and Andre Van Gossum, Université Libre de Bruxelles, Belgium

Home parenteral nutrition (HPN) is the intravenous administration of nutrients carried out in the patient’s home. This book analyses current practices in HPN, covering epidemiology of HPN across the UK and Europe, USA and Australia, its role in the treatment of clinical conditions, as well as ethical and legal aspects and patient quality of life.

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Edited by Duane J. Gubler, Duke-NUS Graduate Medical School, Singapore. Eng Eong Ooi, Duke-NUS Graduate Medical School, Singapore. Subhash Vasudevan, Duke-NUS Graduate Medical School, Singapore and Jeremy Farrar, Oxford University Clinical Research Unit, Vietnam

Over 20,000 deaths are associated with dengue virus infections yearly, and DF/DHF is globally one of the most important emerging tropical diseases. This updated edition gathers leading research and clinical scientists to review the latest findings on dengue virus biology, epidemiology, entomology, therapeutics, vaccinology and clinical management.

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Edited by Carl I. Cater and Brian Garrod, Aberystwyth University, UK
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Mark Piekarz, University of Worcester, UK, Ian Jenkins, Glion Institute of Higher Education, Switzerland and Peter Mills, QLM, UK
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This book provides a broad discussion of cultural tourism as a concept and the way it is implemented in diverse regions around the world. It addresses the notion of cultural tourism, what it means to tourism as an industry, and types of cultural tourism offered to tourists. The book features international case studies on specific instances of cultural tourism.

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