

CABI Books



Horticulture, Plant & Crop Science

2019

KNOWLEDGE FOR LIFE

Contents

- 03** horticulture
- 15** plant sciences
- 18** crop sciences
- 24** crop protection
- 28** nematology
- 30** biotechnology
- 32** climate change
- 34** invasives

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Editorial

If you wish to submit a proposal or discuss collaborating on a project, please email Rebecca Stubbs: r.stubbs@cabi.org or Rachael Russell: r.russell@cabi.org

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Sustainable Food Systems African Indigenous Vegetables

Edited by **Wolfgang Bokelmann**,
Zoltan Ferenczi, both Humboldt
University, Germany

This book takes a transdisciplinary approach to the creation of usable knowledge in the area of sustainable food systems and African Indigenous Vegetables and includes hands-on recommendations for decision-makers and food security researchers. Covers the key results of the HORTINLEA research project addressing food security in East Africa.

May 2020 | HB | 9781789241969 | 240pp
£95 | €125 | \$160



Cut Flowers of the World Revised Edition

Johannes Maree, **Ben-Erik van Wyk**, both
at University of Johannesburg, South Africa

This full-colour photographic guide describes and illustrates more than 330 different species of commercially grown flowers, foliage and

potted flowers.

Mar 2020 | HB | 9781789241334 | 416pp
£35 | €45 | \$60



The Constituents of Medicinal Plants, 3rd Edition

Andrew Pengelly, University of Newcastle,
Australia

Pengelly's book is a classic in the literature of herbal medicine. It is an easy to understand introduction to the chemistry of medicinal plants. This new edition contains six new chapters incorporating topics of contemporary interest, including cannabinoids, mushroom polysaccharides and mycochemistry, and toxicology of phytochemicals.

Apr 2020 | PB | 9781789243079 | 256pp
£25 | €32.50 | \$41.25



Physiology of Vegetable Crops 2nd edition

Edited by **Hans Christian Wien**, Cornell
University, USA, Hartmut Stützel

This is a new edition of a popular title, providing enhanced understanding of the growth and function of 18 different vegetable crops. It is fully revised with new chapters on models and the effects of climate change; now presented in full colour throughout.

Mar 2020 | HB | 9781786393777 | 496pp
£160 | €190 | \$225

Botany, Production and Uses



The Pomegranate

Botany, Production and Uses

Edited by **Ali Sarkhosh**, University of Florida, USA, **Zabihollah Zamani**, University of Tehran, Iran, **Ali-Mohammad Yavari**, Agriculture and Natural Resources Research and Education Center of Yazd, Iran

Pomegranate cultivation is increasing considerably worldwide for fresh consumption, juice production and medicinal purposes. This is the first comprehensive book by an international team of experts at the fore front of research and provides insights and experiences covering botany, production, processing, health and industrial uses of the fruit.

May 2020 | HB | 9781789240764 | 448pp
£135 | €175 | \$225



The Pineapple

Botany, Production and Uses 2nd edition

Edited by **Garth M Sanewski**, Department of Agriculture and Fisheries, Australia, **Duane P Bartholomew**, University of Hawaii at Manoa, USA, **Robert E Paul**, University of Hawaii at Manoa, USA

Fully updated with new content and full-colour figures throughout, the second edition of this successful book provides comprehensive coverage of pineapple breeding, production and yield. It includes essential content from botany through to postharvest handling and provides the technical information required to all those working with the crop.

Nov 2018 | HB | 9781786393302 | 352pp
£115 | €150 | \$190



Papaya

Botany, Production and Uses

Edited by **Sisir Mitra**, International Society for Horticultural Science, India, **Jorge Manuel Santamaria-Fernandez**, Centro de Investigación Científica, México

Global papaya production has grown significantly over the last few years, mainly as a result of increased production in India. This is the first comprehensive book authored by an international team of experts at the forefront of research and covers botany, biotechnology, production, postharvest physiology and processing.

Jun 2020 | HB | 9781789241907 | 360pp
£125 | €165 | \$205



Almonds

Botany, Production and Uses

Edited by **Rafel Socias i Company**, CITA de Aragón, Spain, **Thomas M Gradziel**, University of California, USA

This book provides a comprehensive overview of almond growing from a scientific and horticultural perspective, covering botany, production, processing and industrial uses. Authored by an international team of experts and in full colour, it also presents genetics, breeding, propagation, nutrition, marketing and utilization.

Jul 2017 | HB | 9781780643540 | 512pp
£128.99 | €169.95 | \$211



Cherries

Botany, Production and Uses

Edited by **José Quero-Garcia**, INRA
Bordeaux, France, **Amy Iezzoni**, Michigan
State University, USA, **Joanna Pulawska**,
Research Institute of Horticulture, Poland,
Gregory Lang, Michigan State University, USA

This book addresses the breeding, genetics, ecophysiology, production, protection and utilization of sweet and sour cherries. Reflecting the most recent research and technologies, it provides an overview of all aspects of cherry science and culture and includes many advances in production at an applied level.

Jul 2017 | HB | 9781780648378 | 550pp
£128.99 | €169.95 | \$211



Potato

Botany, Production and Uses

Edited by **Roy Navarre**, USDA-ARS
and Washington State University, USA,
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; reviews postharvest issues; and nutritional value and flavour.

Dec 2014 | HB | 9781780642802 | 382pp
£101.99 | €133.95 | \$192.50



The Lime

Botany, Production and Uses

Edited by **M Mumtaz Khan**, Sultan Qaboos
University, Oman, **Rashid Al-Yahyai**, Sultan
Qaboos University, Oman, **Fahad Al-Said**,
The Research Council, Oman

This book is a comprehensive and up-to-date resource covering the botany, production and uses of limes. It contains detailed information on: breeding, genetics and biodiversity; orchard establishment, management and precision agriculture; pests and diseases; harvesting and postharvest; and traditional and commercial uses of limes.

May 2017 | HB | 9781780647845 | 236pp
£97.99 | €128.95 | \$165



Quinoa

Botany, Production and Uses

Atul Bhargava, Shilpi Srivastava, both
Amity University Lucknow Campus, India

The first comprehensive review of quinoa, this book includes four sections covering the history of the crop, phylogeny and systematics, botany and agrotechnology, and the qualitative aspects, economics and marketing of quinoa, making it a vital resource for students and researchers of crop science.

Sep 2013 | HB | 9781780642260 | 264pp
£96.99 | €123.50 | \$182.50



Avocado

Botany, Production and Uses 2nd edition

Edited by **Bruce Schaffer**, University of Florida, USA, **B Nigel Wolstenholme**, University of KwaZulu-Natal, South Africa, **Anthony W Whitley**, Sunshine Horticultural Services, Australia

Although avocado has been cultivated and consumed for more than 9000 years near its centre of origin in Latin America, world production and trade has increased dramatically over the past few decades. This second edition provides a comprehensive review of avocado production, science and technology.

Jan 2013 | HB | 9781845937010 | 576pp
£128.99 | €170.95 | \$246



Peppers

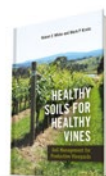
Botany, Production and Uses

Edited by **Vincent M. Russo**, USDA/ARS, USA

This book examines peppers from historical, genetic, physiological and production perspectives. Diverse examples of pod types

and their variation in pungency are examined, production methods and constraints are discussed, and harvesting methods, post-harvest challenges and opportunities are explored.

Feb 2012 | HB | 9781845937676 | 280pp
£96.99 | €123.50 | \$182.50



Healthy Soils for Healthy Vines

Soil Management for Productive Vineyards

Robert White, University of Melbourne, Australia, and **Mark Krstic**, Australian Wine Research Institute, Australia

Provides a clear understanding of vineyard soils and how to manage and improve soil health for best vineyard performance.

Aug 2019 | HB | 9781789243161 | 240pp
£75 | €90 | \$105



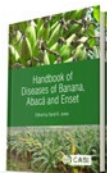
Food Gardens for a Changing World

Daniela Soleri, University of California, Santa Barbara, USA **David A. Cleveland**, University of California, Santa Barbara, USA, and **Steven E. Smith**, University of Arizona, USA

We are facing worldwide climatic, environmental and social changes, and food gardens are one increasingly popular strategy being explored to address these impacts. This book presents the basic biological, ecological and social aspects which influence food gardening.

Jun 2019 | HB | 9781789240986 | 328pp
£95 | €125 | \$160

Jun 2019 | PB | 9781789240993 | 328pp
£45 | €60 | \$75



Handbook of Diseases of Banana, Abacá and Enset

Edited by **David R Jones**, Specialist in Banana Pathology and Pest Risk Analysis, Australia

This book provides a comprehensive guide to the large number of diseases, disorders and injuries that can cause severe economic losses to banana, plantain, abacá and enset crops, and the fungi, bacteria, viruses, nematodes and abiotic factors involved. Most are described and illustrated in colour, creating a valuable diagnostic tool.

Dec 2018 | HB | 9781780647197 | 632pp
£195 | €255 | \$320



The Encyclopedia of Herbs and Spices: 2 volume pack

P N Ravindran, formerly Tata Tea and Tata Global Beverages, India

This highly illustrated reference work provides comprehensive coverage of the taxonomy, botany, chemistry, functional properties, medicinal uses, culinary uses and safety issues relating to over 250 species of herbs and spices.

Dec 2017 | HB | 9781780643151 | 1218pp
£400 | €520 | \$660



Controlled Atmosphere Storage of Fruit and Vegetables

3rd edition

Roger Bancroft, Post-Harvest Assistance, UK, **A. Keith Thompson**, King Mongkut's Institute of Technology, Thailand, **Robert K. Prange**, Dalhousie University, Canada, **Tongchai Puttongsiri**, King Mongkut's Institute of Technology, Thailand

This new, full colour edition presents current research to provide a comprehensive and up-to-date overview of controlled and modified atmosphere, hyperbaric and hypobaric storage of fresh fruits and vegetables. It includes 5 new chapters covering genetics and CA storage, dynamic CA storage, hyperbaric storage, hypobaric storage and fruit ripening.

Nov 2018 | HB | 9781786393739 | 448pp
£125 | €165 | \$205



Automation in Tree Fruit Production: Principles and Practice

Edited by **Qin Zhang**, Washington State University, USA

Written by an international team of experts, this unique edited volume focuses on applications of automation technology to the important industry of tree fruit production. It is aimed at researchers and graduate students of agricultural and biological engineering, crop and soil sciences, precision agriculture, and other relevant disciplines.

Nov 2017 | HB | 9781780648507 | 312pp
£125 | €165 | \$205

Crop Production Science in Horticulture

**Sweet Cherries**

Lynn Long, formerly Oregon State University, USA, **Gregory Lang**, Michigan State University, USA, **Clive Kaiser**, Oregon State University, USA

This book provides comprehensive coverage of the history, genetic improvements, production physiology of growth and cropping, orchard establishment and management, and harvesting for sustainable cherry production. Sweet cherries are a specialty crop, subject to significant production risk for growers.

May 2020 | PB | 9781786398284 | 304pp
£45 | €60 | \$75

**Carrots****2nd edition**

Edited by **Emmanuel Geoffriau**, Agrocampus Ouest, France, and **Philip W Simon**, University of Wisconsin, USA

With new content and full-colour figures throughout, this second edition reflects developments and growth in our knowledge of carrots and related crops. It covers the scientific basis of their biology and production, with updated technical crop management content.

May 2020 | PB | 9781789240955 | 288pp
£45 | €60 | \$75

**Asparagus**

Daniel Drost, Utah State University, USA

This book covers the history, genetics, physiology, production, storage, marketing, diseases and pest management of asparagus. It outlines how to enhance plant performance in a variety of environments, providing horticultural students, crop advisors, growers and researchers with ways to improve productivity and increase longevity.

Aug 2020 | PB | 9781780648743 | 208pp
£45 | €60 | \$75

**Cucurbits****2nd edition**

Todd C Wehner, North Carolina State University, USA, **Rachel Naegele**, USDA ARS, USA, **James Myers**, Oregon State University, USA, **Kevin Crosby**, Texas A&M University, USA, **Narinder P S Dhillon**, World Vegetable Center, Thailand

Completely updated with new content and full-colour figures throughout, this new edition provides succinct and authoritative knowledge relating to the production of cucurbits, including cucumbers, gourds, muskmelons, pumpkins, squashes and watermelons, and reflects on significant recent advances in the areas of production, breeding and evolution.

Apr 2020 | PB | 9781786392916 | 240pp
£45 | €60 | \$75



Tropical Roots and Tuber Crops

Cassava, sweet potato, yams and aroids
2nd edition

Vincent Lebot, CIRAD, Vanuatu

Root and tuber crops are important to agriculture, food security and income for 2.2 billion people in developing countries.

This is an update of this popular title in the Crop Production Science in Horticulture series, originally published in 2009.

Nov 2019 | PB | 9781789243369 | 560pp
£60 | €70 | \$85



Blueberries

2nd edition

Jorge B Retamales, Michigan State University, USA, **James F Hancock**, Universidad de Talca, Chile

This new and updated edition covers major topics of interest to blueberry breeders and researchers: botany, physiology, nutrition, growth regulation, photosynthesis, environment, weeds, pests, diseases and postharvest management. The focus is on the highbush blueberry, though information on other blueberries and related species is also provided.

Aug 2018 | PB | 9781780647265 | 424pp
£45 | €60 | \$75



Citrus

2nd edition

L. Gene Albrigo, **Lukasz L. Stelinski**, **Lavern W. Timmer**, all at University of Florida, USA

Covers the biology and cultivation of citrus, considering the industry from an international perspective. This updated edition includes new findings of advances in molecular approaches to taxonomic studies, cultivars, physiological understanding of key citrus fruits and environmental factors affecting fruit quality.

Aug 2019 | PB | 9781845938154 | 336pp
£49.99 | €65 | \$85



Grapes

2nd edition

Glen L Creasy, Sabrosia Winegrowing Services, France, **Leroy L Creasy**, Thornbush Farms, USA

This full-colour second edition reflects the impact of climate change and seasonal management, expansion of production to new areas, and changing methods of grape production. It includes information on wine, raisin and fresh grapes, covering topics such as growth, fruit development, vineyard establishment, mechanisation and postharvest processing.

Aug 2018 | PB | 9781786391360 | 412pp
£45 | €60 | \$75



Tomatoes

2nd edition

Edited by **Ep Heuvelink**, Wageningen University, The Netherlands

Aug 2018 | PB | 9781780641935 | 388pp
£45 | €60 | \$75



Peas and Beans

Anthony J Biddle, formerly Processors and Growers Research Organisation, UK

Jul 2017 | PB | 9781780640914 | 188pp
£45 | €60 | \$75



Tropical Fruits, Volume 2

2nd edition

Robert E Paull, University of Hawaii at Manoa, USA, **Odilo Duarte**, El Zamorano, Honduras

Nov 2012 | PB | 9781845937898 | 384pp
£46.99 | €62 | \$87.95



Bananas and Plantains

2nd edition

John C Robinson, DuRoi Laboratory, South Africa, **Víctor Galán Saúco**, Instituto Canario de Investigaciones Agrarias, Spain

Oct 2010 | PB | 9781845936587 | 320pp
£44.99 | €60 | \$74.95



Blackberries and Their Hybrids

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

Oct 2017 | PB | 9781780646688 | 376pp
£45 | €60 | \$75



Raspberries

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

Mar 2013 | PB | 9781845937911 | 300pp
£44.99 | €60 | \$74.95



Peppers

Vegetable and Spice Capsicums
2nd edition

Paul Bosland, New Mexico State University, USA, **Eric Votava**, Tierra del Sol Organics, USA

Apr 2012 | PB | 9781845938253 | 248pp
£45 | €60 | \$85



Tropical Fruits, Volume 1

2nd edition

Robert E Paull, University of Hawaii at Manoa, USA, **Odilo Duarte**, El Zamorano, Honduras

Nov 2010 | PB | 9781845936723 | 408pp
£46.99 | €62 | \$87.95



Vegetable Grafting Principles and Practices

Edited by **Giuseppe Colla**, DAFNE, Italy,
Francisco Pérez-Alfocea, Consejo Superior
de Investigaciones Científicas (CSIC), Spain,
Dietmar Schwarz, Leibniz Institute of
Vegetable and Ornamental Crops, Germany

This book provides comprehensive and current scientific and practical knowledge on vegetable grafting, a method gaining considerable interest as an alternative to the use of fumigants to protect crops from soil-borne diseases.

Jun 2017 | HB | 9781780648972 | 298pp
£87.50 | €113 | \$144



Strawberry Growth, Development and Diseases

Edited by **Amjad M. Husaini**,
Sher-e-Kashmir University of Agricultural
Sciences and Technology of Kashmir,
India, **Davide Neri**, Council for Agricultural
Research and Economics, Italy

This book includes up-to-date information on all aspects of strawberry cultivation from plant propagation, architecture, genetic resources, breeding, abiotic stresses and climate change, to evolving diseases and their control. It is written by an international team of specialists and covers current knowledge and emerging challenges.

Oct 2016 | HB | 9781780646633 | 348pp
£108 | €144 | \$180



Medicinal Plants of the World

Ben-Erik van Wyk, University of
Johannesburg, South Africa, and
Michael Wink, University of Heidelberg,
Germany

The book gives the reader a bird's eye view of more than 350 of the best-known medicinal plants of the world and their uses, in a compact, colourful and scientifically accurate reference text.

Jun 2017 | HB | 9781786393258 | 520pp
£45 | €55 | \$65



Plants and Planting on Landscape Sites Selection and Supervision

Peter Ralph Thoday, Thoday Associates, UK

This short and practical book gives practitioners in landscape design the basic horticultural knowledge and concepts needed to understand the limits of the 'material' they are working with. From specification to planting, it provides concrete advice along with practical examples for each stage of a typical project.

Sep 2016 | HB | 9781780646183 | 170pp
£87.50 | €113 | \$144

Sep 2016 | PB | 9781780646190 | 170pp
£29.99 | €40 | \$50



Postharvest

An Introduction to the Physiology and Handling of Fruit and Vegetables
6th edition

Ron Wills, University of Newcastle, Australia, **John Golding**, New South Wales Department of Primary Industries, Australia

Completely updated, this broad-based introductory level textbook covers the key concepts and practical technologies to slow the deterioration of harvested produce, including handling, packaging, transport, temperature management and the control of pests and diseases.

Sep 2016 | PB | 9781786391483 | 304pp
£39.99 | €55 | \$75



Environmental Horticulture

Science and Management of Green Landscapes

Ross Cameron, James Hitchmough, both University of Sheffield, UK

Environmental horticulture is horticulture we encounter in our daily lives. It includes parks, botanic gardens, sports facilities, roundabouts, cemeteries and shopping centres. This textbook gives an overview of the subject, discusses the impacts it has on the environment and covers the practical management of environmental horticulture.

Mar 2016 | PB | 9781780641386 | 326pp
£45 | €60 | \$75



Leafy Medicinal Herbs

Botany, Chemistry, Postharvest Technology and Uses

Edited by **Dawn C P Ambrose**, Central Institute of Agricultural Engineering, India, **Annamalai Manickavasagan**, Sultan Qaboos University, Oman, **Ravindra Naik**, Central Institute of Agricultural Engineering, India

This book compiles the literature for 23 globally relevant leafy medicinal herbs. Beginning with a general overview and discussion of the importance of these plants, it then handles each herb by chapter.

Jul 2016 | HB | 9781780645599 | 296pp
£97.99 | €128.95 | \$165



Garden Centre Management

Ken Crafer, Independent consultant, UK

Garden centre management has professionalised recently as garden centres become more advanced retail operations. Aimed at students, garden centre managers and garden centre management courses, the book offers a practical approach backed by management theory. It covers consumer behaviour; staff and stock management; marketing and productivity.

Sep 2015 | HB | 9781780643083 | 200pp
£85.50 | €112 | \$160.95
Sep 2015 | PB | 9781780643090 | 200pp
£39.95 | €55 | \$75



The Nature of Crops

How we came to eat the plants we do

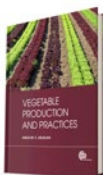
John Warren, Aberystwyth University, UK

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.

Apr 2015 | HB | 9781780645087 | 192pp
£46.50 | €61.80 | \$87.50

Apr 2015 | PB | 9781780645094 | 192pp
£19.95 | €25 | \$40



Vegetable Production and Practices

Gregory E Welbaum, Virginia Tech University, USA

This 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.

Jan 2015 | HB | 9781780645346 | 486pp
£89.99 | €117 | \$170.95

Jan 2015 | PB | 9781845938024 | 486pp
£45 | €60 | \$85



Principles of Tropical Horticulture

David J Midmore, CQUniversity, Australia and 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.

Apr 2015 | PB | 9781845935153 | 450pp
£41 | €56.50 | \$77



Exotic Fruits and Nuts of the New World

Odilo Duarte, El Zamorano, Honduras,
Robert E Paull, University of Hawaii at Manoa, USA

This book is a major reference work on exotic and underutilised 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.

Jan 2015 | HB | 9781780645056 | 342pp
£101.99 | €133.95 | \$192.50



Diseases of Temperate Horticultural Plants

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

Nov 2014 | HB | 9781845937737 | 488pp
£123.50 | €160 | \$235.95



Hemp

Industrial Production and Uses

Edited by **Pierre Bouloc**, **Serge Allegret**,
Laurent Arnaud, all at La Chanvrière de
L'Aube (LCDA), France

Sep 2013 | PB | 9781845937928 | 328pp
£46.50 | €61.80 | \$87.50

Sep 2013 | HB | 9781845937935 | 328pp
£96.99 | €123.50 | \$182.50



Greenhouse Technology and Management

2nd edition

Nicolas Castilla, Agricultural Research
and Training Institute, Spain

Dec 2012 | HB | 9781780641034 | 360pp
£106.99 | €139 | \$203.95



Fruit Ripening

Physiology, Signalling and Genomics

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

Jul 2014 | HB | 9781845939625 | 336pp
£101.99 | €133.95 | \$192.50

Sep 2019 | PB | 9781786395375 | 336pp
£50 | €60 | \$70



Principles of Horticultural Physiology

Edward F Durner, Rutgers University, USA

Jun 2013 | PB | 9781780640259 | 416pp
£45 | €60 | \$85

Jun 2013 | HB | 9781780643069 | 416pp
£106.99 | €139 | \$203.95



Vegetable Seed Production

3rd edition

Raymond A T George, formerly FAO, Italy

Oct 2009 | HB | 9781845935214 | 328pp
£85.50 | €112 | \$160.95

Apr 2013 | PB | 9781780643687 | 328pp
£36 | €46.50 | \$72



Plant Pathology and Plant Diseases

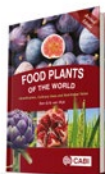
Anne Marte Tronsmo, Norwegian University of Life Sciences, Norway, **Lisa Munk**, University of Copenhagen, Denmark, **Annika Djurle**, Swedish University of Agricultural Sciences, Sweden, **Arne Tronsmo**, Norwegian University of Life Sciences, Norway, **Jonathan Yuen**,

Swedish University of Agricultural Sciences, Sweden, **David B. Collinge**, University of Copenhagen, Denmark

This new textbook provides a comprehensive introduction to all aspect of plant diseases, including pathogens, plant-pathogen interactions, their management, and future perspectives.

Jun 2020 | HB | 9781789243185 | 344pp
£100 | €130 | \$165

Jun 2020 | PB | 9781789243178 | 344pp
£45 | €60 | \$75



Food Plants of the World

Identification, Culinary Uses and Nutritional Value

Ben-Erik van Wyk, University of Johannesburg, South Africa

This revised edition is an indispensable reference guide for anyone interested in the botanical origin of food ingredients and flavours.

Jul 2019 | HB | 9781789241303 | 512pp
£49.99 | €59.99 | \$69.99



Tropical Tuber Starches

Structural and Functional Characteristics

S N Moorthy, formerly CTCRI, India, **M S Sajeew**, CTCRI, India, **R P K Ambrose**, Purdue University, USA, and **R J Anish**, Kerala University, India

Comprehensively exploring the morphological, structural and functional characteristics of tropical tuber starches, particularly in relation to their applications in food and industry, this book is suitable for academic and commercial researchers interested in starch, students in food and plant sciences, and plant breeders.

Sep 2019 | HB | 9781786394811 | 256pp
£105 | €140 | \$175



Sustainable Bamboo Development

Zhu Zhaohua, formerly Chinese Academy of Forestry, China, **Jin Wei**, International Bamboo and Rattan Organization

This book presents over 40 cases of bamboo development from across 22 major bamboo-industry countries and explores the knowledge gained from their successes and failures. It synthesises experiences and exchanges with country experts from international training courses, study tours and seminars.

Feb 2018 | HB | 9781786394019 | 314pp
£105 | €140 | \$175

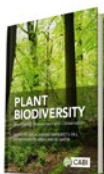


Advances in PGPR Research

Edited by **Harikesh Bahadur Singh, Birinchi K Sarma, Chetan Keswani**, all at Banaras Hindu University, India

Rhizosphere biology is approaching a century of investigations wherein Plant Growth-Promoting Rhizobacteria have attracted special attention for their ability to enhance productivity, profitability and sustainability. This book explores recent developments and global issues in biopesticide research, including extended case studies.

Nov 2017 | HB | 9781786390325 | 466pp
£135 | €175 | \$225



Plant Biodiversity

Monitoring, Assessment and Conservation

Edited by **Abid A Ansari**, University of Tabuk, Saudi Arabia, **Sarvajeet Singh Gill**, MD University, India, **Zahid Khorshid Abbas**, University of Tabuk, Saudi Arabia, **M Naeem**, Aligarh Muslim University, India

This book presents a series of essays on how the results of monitoring and assessment of different aspects of plant biodiversity can be used to combat species extinction and ecosystem collapse using case studies from around the world in terrestrial and aquatic ecosystems.

Dec 2016 | HB | 9781780646947 | 628pp
£154.50 | €200 | \$257.50



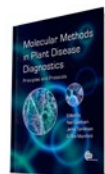
Plant Stress Physiology

2nd edition

Edited by **Sergey Shabala**, University of Tasmania, Australia

This book provides a timely update on the recent progress in our knowledge of all aspects of plant perception, signalling an adaptation to a variety of environmental stresses. It covers in detail areas such as drought, salinity, temperature and pH extremes, waterlogging, oxidative stress and pathogens.

Jan 2017 | HB | 9781780647296 | 376pp
£97.99 | €128.95 | \$165



Molecular Methods in Plant Disease Diagnostics

Principles and Protocols

Edited by **Neil Boonham**, Newcastle University, UK, **Jenny Tomlinson**, Fera, UK, **Rick Mumford**, formerly Fera, UK

Molecular diagnostic 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.

Apr 2016 | HB | 9781780641478 | 212pp
£77 | €100 | \$128.95



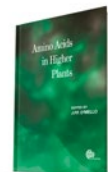
Water Dynamics in Plant Production

2nd edition

Edited by **Wilfried Ehlers**, University of Göttingen, Germany, **Michael Goss**, University of Guelph, Canada

Mar 2016 | HB | 9781780643816 | 396pp
£128.99 | €169.95 | \$211

Mar 2016 | PB | 9781780643823 | 396pp
£45 | €60 | \$75



Amino Acids in Higher Plants

Edited by **J P F D'Mello**, formerly Scottish Agricultural College, UK

Apr 2015 | HB | 9781780642635 | 632pp
£160.99 | €209 | \$311



Plants as a Source of Natural Antioxidants

Edited by **Nawal Kishore Dubey**

Dec 2014 | HB | 9781780642666 | 320pp
£89.99 | €117 | \$170.95

Sep 2019 | PB | 9781786395566 | 320pp
£45 | €55 | \$65



Applied Plant Virology

Calum Rae Wilson

Aug 2014 | PB | 9781845939915 | 192pp
£43 | €58.70 | \$80.50



Plant Adaptation to Environmental Change

Significance of Amino Acids and their Derivatives

Edited by **Naser A Anjum**,
Sarvajeet Singh Gill, MD University, India, **Ritu Gill**, MD University, India

Jan 2014 | HB | 9781780642734 | 344pp
£123.50 | €160 | \$235.95

Sep 2019 | PB | 9781786395252 | 344pp
£60 | €70 | \$85



Natural Antioxidants and Biocides from Wild Medicinal Plants

Edited by **Carlos L Cespedes**, University of Bio Bio, Chile, **D A Sampietro**, Universidad Nacional de Tucumán, Argentina,
Mahendra Rai, SGB Amravati University, India, **D S Seigler**, University of Illinois, USA

Apr 2013 | HB | 9781780642338 | 288pp
£106.99 | €139 | \$203.95

Techniques in Plantation Science



Field Trials in Oil Palm Breeding

A Manual

Baihaqi Sitepu *et al.*

Nov 2019 | PB | 9781789241396 | 96pp
£25 | €30 | \$35



Trichoderma: Ganoderma Disease Control in Oil Palm

A Manual

Ike Virdiana *et al.*

Sep 2019 | PB | 9781789241457 | 96pp
£19.99 | €25 | \$30



Nursery Practices in Oil Palm

A Manual

Nur D Laksono *et al.*

Aug 2019 | PB | 9781789242140 | 120pp
£25 | €30 | \$35



Bunch and Oil Analysis of Oil Palm

A Manual

Pujo Widodo *et al.*

May 2019 | PB | 9781789241365 | 104pp
£19.99 | €25 | \$30



Crossing in Oil Palm

A Manual

Umi Setiawati *et al.*

Sep 2018 | PB | 9781786395917 | 96pp
£19.99 | €25 | \$30



Mutation Breeding in Oil Palm

A Manual

Brian P Forster *et al.*

Sep 2018 | PB | 9781786396211 | 96pp
£19.99 | €25 | \$30



Nursery Screening for Ganoderma Response in Oil Palm Seedlings

A Manual

Syamsul Bahri *et al.*

Sep 2018 | PB | 9781786396242 | 96pp
£19.99 | €25 | \$30



Seed Production in Oil Palm

A Manual

Stephen P C Nelson *et al.*

Sep 2018 | PB | 9781786395887 | 96pp
£19.99 | €25 | \$30



Quantitative Genetics, Genomics and Plant Breeding

2nd edition

Edited by **Manjit S Kang**, Louisiana State University, USA

Quantitative genetics and breeding have made a major contribution to crop improvement over the years, but the genomics revolution has dramatically changed the field – this second edition of a popular book explains how traditional and genomic techniques have been combined to advance the field.

Feb 2020 | HB | 9781789240214 | 360pp
£105 | €140 | \$175



Reorienting Indian Agriculture Challenges and Opportunities

Raj S. Paroda, Trust for Advancement of Agricultural Sciences, India

While the “Green Revolution” was a major success, many issues with food production and increasing population and climate change mean that countries such as India face major challenges. Paroda argues for choosing the best technologies and blending them with rich traditional knowledge to attain sustainable development goals.

Nov 2018 | HB | 9781786395177 | 336pp
£100 | €130 | \$165



The Bioeconomy

Delivering Sustainable Green Growth

Davide Viaggi, University of Bologna, Italy

The “bioeconomy” is the idea of economic activity involving the sustainable exploitation of biological resources. This book illustrates state of the art perspectives in the development of the bioeconomy across the world, taking an economic and policy perspective, and identifies potential future pathways and issues.

Dec 2018 | HB | 9781786392756 | 224pp
£85 | €110 | \$140



Crisis and Conflict in Agriculture

Edited by **Rami Zurayk**, American University of Beirut, Lebanon, **Eckart Woertz**, Barcelona Centre for International Affairs, Spain, **Rachel Bahn**, American University of Beirut, Lebanon

This book examines both how agriculture and rural issues can cause crisis and conflict, and what the effects of crisis and conflict, including violence and natural disasters, are on agriculture. Case studies examine a wide range of crises and conflicts, primarily in developing countries, and appropriate responses to mitigate their effects.

Sep 2018 | HB | 9781786393647 | 316pp
£95 | €125 | \$160



Maize Kernel Development

Edited by **Brian A Larkins**, formerly
University of Nebraska, USA

This comprehensive book acts as a guide to understanding maize kernel development. It covers topics spanning pre- and post-fertilization events, embryo and endosperm

development, grain filling and maturation, and factors that influence crop yield. It addresses existing hypotheses plus important gaps in our knowledge and how we might fill them.

Nov 2017 | HB | 9781786391216 | 252pp
£95 | €125 | \$160



UV-B Radiation and Plant Life

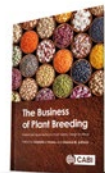
Molecular Biology to Ecology

Edited by **Brian R Jordan**, Lincoln University,
New Zealand

Variation in UV-B radiation is crucial to climate change and crop productivity. This book focuses on its environmental interactions,

and how plants both protect themselves against UV-B and are stimulated by it.

Oct 2017 | HB | 9781780648590 | 192pp
£97.99 | €128.95 | \$165



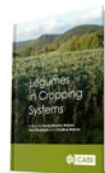
The Business of Plant Breeding

Market led Approaches to Plant Variety Design in Africa

Edited by **Gabrielle J Persley**, University of Queensland, Australia, and The Doyle Foundation, UK, **Vivienne M Anthony**, Syngenta Foundation for Sustainable Agriculture, Switzerland

This book is the result of a study on demand-led plant variety design for markets in Africa, sharing best practices from private and public sector programmes worldwide that are applicable to improving tropical crops in Africa. It covers areas such as the principles of demand-led plant breeding, understanding client demands and breeding strategy.

Nov 2017 | HB | 9781786393814 | 216pp
£82.50 | €108 | \$139



Legumes in Cropping Systems

Edited by **Donal Murphy-Bokern**, Independent scientist, Germany, **Fred Stoddard**, University of Helsinki, Finland, **Christine Watson**, SRUC, UK

This book is a comprehensive overview of legume research, from intercropping

with legumes and cereals to legumes grown as a primary protein source, crop protection progress and policy issues. It contributes to debate and knowledge for the rebalance of farming and food using legumes.

May 2017 | HB | 9781780644981 | 278pp
£87.50 | €113 | \$144



Download this title for free at:
www.cabi.org/cabebooks



Integrated Management of Insect Pests on Canola and other Brassica Oilseed Crops

Edited by **Gadi V P Reddy**, Montana State University, USA

This book reviews current pest management practices and explores new biological and chemical control methods, and integrated pest management strategies in this important crop. It is essential reading for pest management practitioners and researchers working on pest management in canola crops worldwide.

Apr 2017 | HB | 9781780648200 | 408pp
£180 | €236.95 | \$298.95



Tropical Forage Legumes Harnessing the Potential of Desmanthus and Other Genera for Heavy Clay Soils

John R. Lazier, Independent Consultant, Canada, and **Nazeer Ahmad**, formerly University of the West Indies, Trinidad and Tobago

This book explores the importance of heavy clay soils to agricultural productivity in the tropics and subtropics and the identification of adapted, productive forage legumes for this environment.

Jul 2016 | HB | 9781780646282 | 490pp
£139 | €180 | \$231.95



Seed Biology and Yield of Grain Crops

2nd edition

Dennis B Egli, University of Kentucky, USA

This second edition of an established title examines the determination of grain crop yield from a unique perspective, by concentrating on the influence of the seed itself.

Feb 2017 | HB | 9781780647708 | 232pp
£87.50 | €113 | \$144



Enhancing Crop Genepool Use Capturing Wild Relative and Landrace Diversity for Crop Improvement

Edited by **Nigel Maxted**, University of Birmingham, UK, **M Ehsan Dulloo**, Bioversity International, Italy, **Brian V Ford-Lloyd**, University of Birmingham, UK

Based on the international conference 'Enhanced Genepool Utilization: Capturing wild relative and landrace diversity for crop improvement', this book addresses all aspects of utilization and conservation of crop wild relative (CWR) and landrace (LR) diversity for crop improvement.

May 2016 | HB | 9781780646138 | 496pp
£139 | €180 | \$231.95



Sustainable Crop Disease Management using Natural Products

Edited by **Kuruccheve Vadivel**, Annamalai University, India, **Sangeetha Ganesan**, Central Horticultural Experiment Station (ICAR-IIHR), India, **Jayaraj Jayaraman**, The University of The West Indies, Trinidad and Tobago

Nov 2015 | HB | 9781780643236 | 424pp
£123.50 | €160 | \$203.95



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**, Indian Council of Agricultural Research,

India, **Priya Ranjan Kumar**, formerly Indian Council of Agricultural Research, India

Sep 2015 | HB | 9781780644837 | 280pp
£89.99 | €117 | \$170.95



Abiotic Stresses in Crop Plants

Edited by **Usha Chakraborty**, **Bishwanath Chakraborty**, both University of North Bengal, India

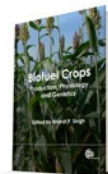
Jul 2015 | HB | 9781780643731 | 278pp
£89.99 | €117 | \$170.95



Nutrient Deficiencies of Field Crops Guide to Diagnosis and Management

Prakash Kumar, Department of Agriculture, India, **Manoj Kumar Sharma**

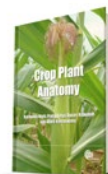
Dec 2013 | HB | 9781780642789 | 400pp
£139 | €187.50 | \$267.95



Biofuel Crops Production, Physiology and Genetics

Edited by **Bharat P Singh**, Fort Valley State University, USA

Jun 2013 | HB | 9781845938857 | 544pp
£139 | €187.50 | \$267.95



Crop Plant Anatomy

Ratikanta Maiti, Vibha Agrotech Ltd, Hyderabad, India, **Pratik Satya**, Central Research Institute for Jute and Allied Fibres, India, **Dasari Rajkumar**, Vibha Agrotech Ltd, India, **Allam Ramaswamy**, Vibha Agrotech Ltd, India

Aug 2012 | HB | 9781780640198 | 328pp
£85.50 | €112 | \$160.95



Disease Resistance in Wheat

Edited by **Indu Sharma**, Punjab Agricultural University, India

May 2012 | HB | 9781845938185 | 336pp
£106.99 | €139 | \$203.95

Invasive Species Compendium

Detailed coverage of invasive species threatening livelihoods and the environment worldwide

Freely available and open access!

- Detailed datasheets on over 2,000 invasive species with referenced text sections, links to related content, images and distribution maps
- Basic datasheets on further species, countries, habitats and pathways
- Downloadable distribution data in KML and CSV format
- Bibliographic database of over 200,000 records
- Library of full text documents and links to further resources

www.cabi.org/isc



Pesticide Risk Assessment

Sumitra Arora, ICAR-National Research Centre for Integrated Pest Management, India

This book reviews the environmental risks of pesticides and their mixtures, their method of estimation and assessment, and their regulation. Beginning with an overview of pesticide toxicity and risk assessment, it covers historical background, environmental impact, methodology, diagnostic and assessment tools, and legislation.

Apr 2019 | HB | 9781780646336 | 358pp
£105 | €140 | \$175



Biopesticides Manual

Guidelines for Selecting, Sourcing, Producing and Using Biopesticides for Key Pests of Tobacco

Keith A Holmes, Dirk Babendreier, Melanie Bateman, Malvika Chaudhary, Julien Grunder, Margaret Mulaa,

Léna Durocher-Granger, Muhammad Faheem, all at CABI

A hands-on training guide on biopesticides, to promote sustainable solutions for managing pests, such as microbials, botanicals, semiochemicals, predators and parasitoids.

Feb 2019 | PB | 9781789242027 | 158pp
£25 | €32 | \$40



Download this title for free at:
www.cabi.org/cabebooks



The Economics of Soybean Disease Control

Kenneth Zahringer, Nicholas Kalaitzandonakes, James Kaufman, all at University of Missouri-Columbia, USA

Although soybean is a major global crop, it suffers significant losses often because of an incomplete understanding of the extent of soybean diseases, and the feasibility and benefits of disease control. This book covers evidence on disease incidence and severity, management strategies and new technologies.

Apr 2019 | HB | 9781780648088 | 220pp
£95 | €125 | \$160



The UK Pesticide Guide 2019

Edited by **Martin A Lainsbury**, Association of Independent Crop Consultants (AICC), BCPC for the UKPG

This new edition of *The UK Pesticide Guide* has 8 new active ingredient profiles plus a number of new formulations and products for a wide range of crops. It contains a variety of herbicide, fungicide and insecticide and PGR additions, bringing the guide up-to-date for 2019.

Dec 2018 | PB | 9781999896621 |
£55.80 | €75 | \$85



Handbook of Pest Management in Organic Farming

Edited by **Vincenzo Vacante**, Mediterranean University, Italy, **Serge Kreiter**, Montpellier SupAgro, France

An up-to-date, comprehensive reference for pest management in organic systems, including practical advice, tables and diagrams. Introductory chapters explore the management of crops to prevent outbreaks, plant protection tools, natural enemies and pest control. Crop-based chapters discuss geographic distribution, economic importance and key pests.

Dec 2017 | HB | 9781780644998 | 576pp
£175 | €230 | \$290



Field Guide for the Identification of Damage on Woody Sentinel Plants

Edited by **Alain Roques**, INRA Orleans, France, **Michelle Cleary**, Swedish University of Agricultural Sciences, Sweden, **Iryna Matsiakh**, Ukrainian National Forestry University, Ukraine, **René Eschen**, CABI, Switzerland

This book is a heavily-illustrated, internationally applicable, practical guide for the identification of likely causal agents of damage to trees and woody shrubs. It is intended for use in sentinel plantings, where agents often may not be known and only damage visible.

Sep 2017 | PB | 9781786394408 | 312pp



Download this title for free at:
www.cabi.org/cabebooks



Integrated Pest Management in Tropical Regions

Edited by **Carmelo Rapisarda**, **Giuseppe E Massimino Cocuzza**, both Università degli Studi di Catania, Italy

This book provides up-to-date, comprehensive coverage of research and applications of IPM in tropical regions. It explores the agro-ecological framework of IPM and emerging technologies in chemical and biological methods central to pest control, and by a crop-based approach details IPM applications in tropical food crops, fibre crops and forests.

Dec 2017 | HB | 9781780648002 | 360pp
£95 | €125 | \$160



Aphids as Crop Pests 2nd edition

Edited by **Helmut F van Emden**, University of Reading, UK, **Richard Harrington**, Rothamsted Research, UK

A classic comprehensive reference on the biology and management of aphids occurring in crops, this second edition reflects the expansion of genomic research, semiochemicals and endosymbionts, and the shift away from purely chemical control towards more integrated methods.

Aug 2017 | HB | 9781780647098 | 714pp
£180 | €236.95 | \$298.95



Biocontrol Agents

Entomopathogenic and Slug Parasitic Nematodes

Edited by **Mahfouz M M Abd-Elgawad**,
National Research Centre, Egypt,
Tarique Hassan Askary, Sher-e-Kashmir
University of Agricultural Sciences and

Technology of Kashmir (SKUAST-K), India, **James Coupland**,
FarmForest Research Inc, Canada

This book gives a comprehensive account of entomopathogenic and slug parasitic nematodes as potential biocontrol agents in crop insect and slug pest management in tropical, subtropical and temperate countries. It covers new techniques, major developments and plans for future strategies to make these nematodes cost-effective and expand their use.

Jul 2017 | HB | 9781786390004 | 662pp
£154.50 | €200 | \$257.50



Review of Invertebrate Biological Control Agents Introduced into Europe

Esther Gerber, Longo Mai, Switzerland,
Urs Schaffner, CABI, Switzerland

This book provides an overview of
all documented releases of exotic

(non-European) invertebrate biological control agents (IBCA) into the environment in Europe and summarizes key information on the target species as well as on the biological control agent released.

Nov 2016 | HB | 9781786390790 | 208pp
£97.99 | €128.95 | \$165



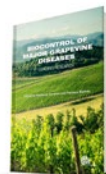
Handbook of Naturally Occurring Insecticidal Toxins, The

Opender Koul, Insect Biopesticide Research
Centre, 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.

Nov 2016 | HB | 9781780642703 | 864pp
£190.50 | €247 | \$303.95



Biocontrol of Major Grapevine Diseases

Leading Research

Edited by **Stéphane Compant**, AIT Austrian
Institute of Technology GmbH, Austria,
Florence Mathieu, INP-ENSAT, France

This book provides a thorough research
update on the very topical subject of biological control of
grapevine diseases. It covers fungi, oomycete, bacteria and
phytoplasma, and is particularly relevant to organic viticulture
but also beneficial as part of IPM strategies for traditional
production.

Mar 2016 | HB | 9781780647128 | 262pp
£97.99 | €128.95 | \$165



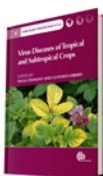
Integrated Pest Management

Principles and Practice

Edited by **Dharam P Abrol**, Uma Shankar,
both Sher-e-Kashmir University of Agricultural
Sciences and Technology, India

Jul 2012 | HB | 9781845938086 | 512pp
£139 | €187.50 | \$267.95

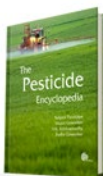
Mar 2016 | PB | 9781786390318 | 512pp
£45 | €60 | \$75



Virus Diseases of Tropical and Subtropical Crops

Edited by **Paula Tennant**, University of West
Indies, Jamaica, **Gustavo Fermin**, Instituto
Jardín Botánico de Mérida, Venezuela

Dec 2015 | HB | 9781780644264 | 264pp
£101.99 | €133.95 | \$170.95



Pesticide Encyclopedia

Vasant Gowariker, Government of India,
V N Krishnamurthy, VSSC, India, Sudha
Gowariker, Independent Consultant, India,
Kalyani Paranjape, Independent Consultant,
India

Dec 2014 | HB | 9781780640143 | 726pp
£209 | €272.95 | \$396.50



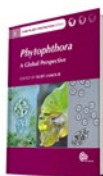
Fungicides in Crop Protection

2nd edition

Richard P. Oliver, Curtin University, Australia,
H G Hewitt, University of Reading, UK

Oct 2014 | HB | 9781780641669 | 200pp
£89.99 | €117 | \$170.95

Oct 2014 | PB | 9781780641676 | 200pp
£41 | €56.50 | \$77



Phytophthora

A Global Perspective

Edited by **Kurt Lamour**, University
of Tennessee, USA

Mar 2013 | HB | 9781780640938 | 256pp
£96.99 | €123.50 | \$182.50



Plant Pest Risk Analysis

Concepts and Application

Edited by **Christina Devorshak**,
USDA-APHIS-PPQ

Nov 2012 | HB | 9781780640365 | 312pp
£85.50 | €112 | \$160.95

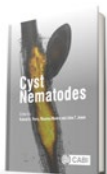


Methods for Work with Plant and Soil Nematodes

Edited by **Roland N Perry**, University of Hertfordshire, UK, **David J Hunt**, CABI, UK, and **Sergei A Subbotin**, California Department of Food and Agriculture, USA

This up-to-date, comprehensive book covers the practicalities of working with and studying soil and plant nematodes. Written by an international team of experts, it includes traditional and new methodologies, as well as sections on behavioural and physiological assays, and cytogenetic, biochemical and molecular biology techniques.

Apr 2020 | HB | 9781786391759 | 288pp
£65 | €85 | \$110



Cyst Nematodes

Edited by **Roland N Perry**, University of Hertfordshire, UK, **Maurice Moens**, Flanders Research Institute for Agriculture, Fisheries and Food, Belgium, **John T Jones**, The James Hutton Institute, UK

This book is a compendium of current information on all aspects of cyst nematodes. It provides comprehensive coverage of their biology, management, morphology and diagnostics, in addition to up-to-date information on molecular aspects of taxonomy, host-parasitic relationships and resistances of these economically important parasites.

Apr 2018 | HB | 9781786390837 | 488pp
£135 | €175 | \$225



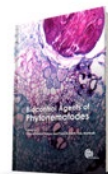
Plant Parasitic Nematodes in Subtropical and Tropical Agriculture

3rd edition

Edited by **Richard A Sikora**, University of Bonn, Germany, **Danny Coyne**, International Institute of Tropical Agriculture, Kenya, **Johannes Hallmann**, Julius Kühn-Institute, Germany, **Patricia Timper**, USDA, USA

Fully revised and in full colour, this third edition reflects on the impact of nematodes on food security and climate change interactions and includes a new chapter on nematode soil biodiversity in health. It covers major food and cash crops and provides guidance on extraction methods, processing and diagnosis of plant and soil nematodes, and IPM.

Aug 2018 | HB | 9781786391247 | 898pp
£150 | €195 | \$250



Biocontrol Agents of Phytonematodes

Edited by **Tarique Hassan Askary**, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), India, **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.

Jun 2015 | HB | 9781780643755 | 480pp
£144 | €187.50 | \$278



Biological Control of Plant-parasitic Nematodes

Soil Ecosystem Management
in Sustainable Agriculture
2nd edition

Graham R. Stirling, Biological Crop
Protection Pty. Ltd, Australia

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 | 9781780644158 | 536pp
£133.99 | €177 | \$257.50

Sep 2019 | PB | 9781786395337 | 536pp
£65 | €80 | \$90



Trichoderma Biology and Applications

Edited by **Prasun K Mukherjee, U S Singh,**
B A Horwitz, Monika Schmoll, AIT, Austria,
Mala Mukherjee, Central Institute for Cotton
Research, India

Trichoderma spp. are biotechnologically significant fungi widely used in agriculture and industry, and a potential drug source of clinical importance. In recent years, research on these fungi have opened new avenues for its varied applications. This book is an essential ready reference work for researchers, students and people from industry.

Sep 2013 | HB | 9781780642475 | 344pp
£106.99 | €139 | \$203.95



Plant Nematology

2nd edition

Edited by **Roland N Perry**, University of
Hertfordshire, UK, **Maurice Moens**, Flanders
Research Institute for Agriculture, Fisheries
and Food, 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.

Oct 2013 | HB | 9781780641515 | 568pp
£123.5 | €160 | \$235.95

Oct 2013 | PB | 9781780641539 | 568pp
£63.99 | €85.5 | \$123.5



Parasitic Nematodes

Molecular Biology, Biochemistry
and Immunology
2nd edition

Edited by **Malcolm W Kennedy**, University
of Glasgow, UK, **William Harnett**, University
of Strathclyde, UK

Covering a broad range of rapidly-developing research into parasitic nematodes, this comprehensively updated new edition discusses the genetics, biochemistry and immunology of nematode parasites of humans as well as domestic animals and plants.

Jun 2013 | HB | 9781845937591 | 448pp
£133.99 | €177 | \$257.50

CABI Biotechnology Series



Forest Genomics and Biotechnology

Matias Kirst, University of Florida, Gainesville, USA, **Rick Meilan**, Purdue University, USA

An authoritative update of forest tree biotechnology and genomics methodologies, this book discusses approaches for traditional breeding improvement of forest-tree species and production of forest-based products. It describes in detail the environmental, social, legal, and regulatory aspects of forest biotechnology, with an emphasis on biosafety.

Dec 2019 | HB | 9781780648477 | 208pp
£85 | €110 | \$140



GM Food Systems and Their Economic Impact

Tatjana Brankov, Koviljko Lovre, both at University of Novi Sad, Serbia

This book adopts a methodical approach to provide a novel exploration of the effects of GM crops on global economy, as well as examining the links between GM and food security at global and regional levels. The environmental implications of GM are also considered, by comparing pesticide use and efficiency in GM and non-GM countries.

Nov 2018 | HB | 9781789240542 | 246pp
£95 | €125 | \$160



Endophyte Biotechnology Potential for Agriculture and Pharmacology

Edited by **Alexander Schouten**, Wageningen University and Research Centre, The Netherlands

Endophytes are bacterial and fungal microorganisms that colonize plants, typically boosting the health of the host plant and altering its metabolism. This book explores the diversity of endophytes, their potential value and future challenges in the contexts of agricultural production and the discovery of novel pharmaceutical drugs.

Oct 2019 | HB | 9781786399427 | 208pp
£85 | €110 | \$140



Ethical Tensions from New Technology

The Case of Agricultural Biotechnology

Edited by **Harvey S James, Jr**, University of Missouri, USA

New technologies can create ethical tensions when there is a conflict of interests, values or rights. One of the key examples of such technology is agricultural biotechnology. This book explores the reasons for those tensions, and potential solutions.

Aug 2018 | HB | 9781786394644 | 194pp
£85 | €110 | \$140



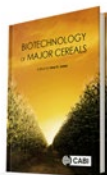
Biotechnology of Fruit and Nut Crops

2nd edition

Edited by **Richard E Litz**, University of Florida, USA, **Fernando Pliego-Alfaro**, Universidad de Málaga, Spain, **Jose Ignacio Hormaza**, IHSM la Mayora, Spain

This book covers the biotechnology of all major fruit and nut species, with colour illustrations illustrating the crop species and their wild relatives. It details well-established techniques such as protoplast culture, in vitro mutagenesis and ploidy manipulation, but also newer approaches such as genomics and marker-assisted selection.

Dec 2019 | HB | 9781780648279 | 750pp
£195 | €255 | \$320



Biotechnology of Major Cereals

Fears and Facts

Edited by **Huw D Jones**, Aberystwyth University, UK

In this book experts explain and discuss the latest biotechnological advances in cereal crop science, including the latest results of gene editing techniques.

Sep 2016 | HB | 9781780645193 | 244pp
£87.50 | €113 | \$165



GM Agriculture and Food Security

Fears and Facts

Edited by **Stuart Smyth**, University of Saskatchewan, Canada, **William A Kerr**, University of Saskatchewan, Canada, **Peter W B Phillips**, University of Saskatchewan, Canada

Myths about biotechnology have prevented it from helping improve food security in the developing world. This book explores the theory, evidence and rhetoric of the impact of food production on the environment, and vice versa.

Aug 2019 | HB | 9781786392213 | 184pp
£95 | €125 | \$160

Aug 2019 | PB | 9781786392244 | 184pp
£39.99 | €55 | \$65



Emerging Trends in

Agri-Nanotechnology

Fundamental and Applied Aspects

Edited by **Harikesh Bahadur Singh**, Banaras Hindu University, India, **Sandhya Mishra**, Banaras Hindu University, India, **Leonardo Fernandes Fraceto**, São Paulo State University, Brazil, and **Renata de Lima**, University of Sorocaba, Brazil

The science of nanotechnology – the manipulation, design and engineering of devices at the atomic and molecular scale – is starting to be applied to many disciplines including aspects of agriculture and crop science. This edited volume reviews the current state of knowledge and explores potential applications.

Apr 2018 | HB | 9781786391445 | 322pp
£125 | €165 | \$105

CABI Climate Change Series



Halophytes and Climate Change Adaptive Mechanisms and Potential Uses

Edited by **Mirza Hasanuzzaman**, Sher-e-Bangla Agricultural University, Bangladesh, **Sergey Shabala**, University of Tasmania, Australia, **Masayuki Fujita**, Kagawa University, Japan

This book contains current knowledge and up-to-date developments in the field of halophyte biology, ecology and potential uses. It explores the adaptive mechanisms of halophytes that allow them to grow in environments unsuitable for conventional crops and considers their role as a source of food, fuel, fodder, fibre, essential oils and medicines.

Feb 2019 | HB | 9781786394330 | 400pp
£145 | €190 | \$240



Climate Change and Cotton Production in Modern Farming Systems

Michael P Bange, J. T. Baker, P. J. Bauer, K. J. Broughton, G. A. Constable, Q. Luo, D. M. Oosterhuis, Y. Osanai, P. Payton, D. T. Tissue, K R Reddy, B. K. Singh

Throughout the world cotton is broadly adapted to growing in temperate, sub-tropical, and tropical environments, but growth may be challenged by future climate change. This review provides details for the formation of robust frameworks to evaluate the impact of projected climatic changes and highlights the risks and opportunities with adaptation.

Mar 2016 | PB | 9781780648903 | 72pp
£35 | €45 | \$60



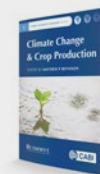
Climate Change Impact and Adaptation in Agricultural Systems

Edited by **Jurg Fuhrer**, formerly Agroscope, Switzerland, **P J 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.

Jun 2014 | HB | 9781780642895 | 298pp
£89.99 | €117 | \$170.95

Sep 2019 | PB | 9781786395351 | 298pp
£45 | €55 | \$65



Climate Change and Crop Production

Edited by **Matthew P Reynolds**, CIMMYT, Mexico

Now available in paperback! The first volume in the CABI Climate Change Series, this book provides an overview of the essential disciplines required for sustainable crop production in unpredictable environments.

May 2017 | PB | 9781786393081 | 308pp
£45 | €60 | \$75

May 2010 | HB | 9781845936334 | 320pp
£101.99 | €128.95 | \$192.50



Climate Change Challenges and Adaptations at Farm-level

Case Studies from Asia and Africa

Edited by **Naveen P Singh, Cynthia Bantilan, Kattarkandi Byjesh**, Swamikannu Nedumaran, all at ICRISAT, India

This book emphasises the importance of farm-level adaptation in mitigating against the risks of climate change in the semi-arid tropics of Asia and Africa. It highlights the key issues that arise in farm-level impacts, adaptation and vulnerability, and discusses the methodological approaches undertaken in Asia and Africa.

Nov 2015 | HB | 9781780644639 | 244pp
£101.99 | €133.95 | \$170.95



Plant Genetic Resources and Climate Change

Edited by **Michael Jackson**, formerly International Rice Research Institute, The Philippines, **Brian V Ford-Lloyd**, University of Birmingham, UK, **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.

Dec 2013 | HB | 9781780641973 | 312pp
£96.99 | €123.50 | \$182.50



Climate Change and Insect Pests

Edited by **Christer Björkman**, Swedish University of Agricultural Sciences, Sweden, **Pekka Niemelä**, University of Turku, Finland

It is anticipated that the damage to crops and forests by insects will increase as a consequence of climate change. However, the evidence in support of this is sparse. This book sums up present knowledge regarding both agricultural and forest insect pests and climate change in order to identify future research directions.

Oct 2015 | HB | 9781780643786 | 292pp
£80 | €107 | \$155.50



Crop Stress Management and Global Climate Change

Edited by **Jose Luis Araus**, International Maize and Wheat Improvement Center, Mexico, **Gustavo A Slafer**, University of Lleida, Spain

Climate change will pose many challenges to agriculture in the future, but by taking an integrative approach to predicting and adapting to change, this book will inspire researchers to turn those challenges into opportunities.

Nov 2011 | HB | 9781845936808 | 224pp
£85.5 | €112 | \$160.95

CABI Invasives Series

**Invasive Species and Human Health**

Edited by **Giuseppe Mazza**,
Elena Tricarico, both Università
degli Studi di Firenze, Italy

This book examines direct effects to human health from invasive species such as bites, wounds and illness and indirect effects via changes induced in the ecosystems. It covers case studies from different taxa (animals and plants) and in developed and developing countries.

Jul 2018 | HB | 9781786390981 | 208pp
£85 | €110 | \$140

**Biosecurity Surveillance
Quantitative Approaches**

Edited by **Frith Jarrad**, University of
Melbourne, Australia, **Sama Low Choy**,
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.

Mar 2015 | HB | 9781780643595 | 386pp
£101.99 | €133.95 | \$192.5

**Invasive Alien Plants****Impacts on Development and Options for
Management**

Edited by **Carol A Ellison**, CABI, UK,
Sean T Murphy, CABI, UK, **K V Sankaran**,
Kerala Forest Research Institute, India

Invasive alien plants pose a major threat to agriculture, the natural environment and livelihoods worldwide and create challenges for development. This book emphasizes the social and economic implications of plant invasion and discusses direct impacts on livelihoods and biodiversity.

Oct 2017 | HB | 9781780646275 | 244pp
£87.5 | €113 | \$144

**Invasive Species and Global
Climate Change**

Edited by **Lewis Ziska**, USDA-ARS, USA,
and **Jeffery Dukes**

This book examines what will happen to global invasive species, including plants, animals and pathogens with current and expected man-made climate change. The effects on distribution, success, spread and impact of invasive species are considered for a series of case studies from a number of countries.

Aug 2014 | HB | 9781780641645 | 368pp
£101.99 | €133.95 | \$192.50
Sep 2019 | PB | 9781786395399 | 368pp
£50 | €60 | \$70



Biological Control in Latin America and the Caribbean

Its Rich History and Bright Future

J C van Lenteren, Wageningen University, The Netherlands, **Vanda H.P. Bueno**, University of Lavras, Brazil, **Maria Gabriela Luna**, Universidad

Nacional de La Plata, Argentina, **Yelitza Colmenarez**

The book summarizes the history of biological control in Latin America and the Caribbean.

Dec 2019 | HB | 9781789242430 | 400pp
£125 | €165 | \$205

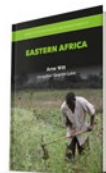


Community-Based Control of Invasive Species

Edited by **Paul Martin**, University of New England, Australia, **Theodore R Alter**, Penn State University, USA, **Donald W Hine**, University of New England, Australia and **Tanya M Howard**, University of New England, Australia

A study of how invasive species policies have shifted significantly towards relying upon private citizens and industry to manage established invasive species. The title provides a concentrated source of advanced theoretical knowledge and best practice advice about ways to manage the human dimensions of invasive species.

May 2019 | HB | 9781789242539 | 288pp
£75 | €90 | \$105



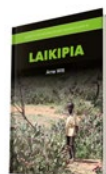
Guide to the Naturalized and Invasive Plants of Eastern Africa

Arne Witt

Apr 2017 | PB | 9781786392145 | 608pp



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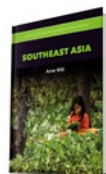
Guide to the Naturalized and Invasive Plants of Laikipia

Arne Witt

Apr 2017 | PB | 9781786392152 | 192pp



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Guide to the Naturalized and Invasive Plants of Southeast Asia

Arne Witt

Apr 2017 | PB | 9781786392107 |



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