



# horticulture

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## Encyclopedia of Herbs and Spices: 2 volume pack

**P. Ravindran**, formerly Tata Tea and Tata Global Beverages, India

*The Encyclopedia of Herbs and Spices* 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. These herbs and spices constitute an important agricultural commodity; many are traded globally and are indispensable for pharmaceuticals, flavouring foods and beverages, and in the perfumery and cosmetic industries. More recently, they are increasingly being identified as having high nutraceutical

potential and important value in human healthcare.

An invaluable reference tool, this book:

- Presents easily accessible information, including up-to-date nomenclature and taxonomy
- Is beautifully illustrated with over 250 figures
- Begins with an introductory chapter on the definition, classification, history, and applications of herbs and spices worldwide
- Is written by a well-known authority within the field

This encyclopedia is an excellent resource for researchers, students, growers and manufacturers, in the fields of horticulture, agriculture, botany, crop sciences, food science and pharmacognosy.

**November 2017 | Hardback | 1128 Pages | 9781780643151**

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Edited by R Watson, University of Arizona, USA, V Preedy, Kings College London, UK

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## Vegetable Grafting Principles and Practices

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

This book provides comprehensive, current scientific and applied practical knowledge on vegetable grafting, a method gaining considerable interest that is used to protect crops from soil-borne diseases, abiotic stress and to enhance growth/yield. Though the benefits of using grafted transplants are now fully recognized worldwide, understanding the rootstock/scion interactions under variable environmental pressures remains vital for grafting-mediated crop improvement. In this book the authors attend to this need and explain the reasons for, and methods and applications of, grafting. *Vegetable Grafting: Principles and Practices* covers: rootstock breeding, signalling, and physiological and molecular mechanisms involved in grafting; beneficial effects of grafting including reducing disease damage and abiotic stress; side effects relating to the impact of grafting on fruit quality; and practical applications and speciality crops. Including high-quality colour images and written by an international team of expert authors, this book provides up-to-date scientific data and is also concerned with translating science to the field. It is an essential resource for researchers, advanced technicians, practitioners and extension workers.

June 2017 | Hardback | 298 Pages | 9781780648972

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Edited by S Shabala, University of Tasmania, Australia  
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#### Principles of Horticultural Physiology

E Durner, Rutgers, The State University of New Jersey, USA  
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## Medicinal Plants of the World

### Revised Edition

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

Medicinal plants and plant-derived medicine are widely used in traditional cultures all over the world and they are becoming increasingly popular in modern society as natural alternatives to synthetic chemicals. As more and more natural remedies are being commercialised, there is a need for a user-friendly reference guide to these plants and their products.

This 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. It provides quick answers to the most obvious questions: Where does this plant originate? What does it look like? In which culture is it traditionally used? What is it used for? Which chemical compounds does it contain? How safe is it? What is known about its pharmacological activity? What evidence is there that it is effective?

The authors also provide short overviews of the various health conditions for which medicinal plants are used and the active compounds (secondary metabolites) found in the plants and their modes of actions.

This new edition has an additional 30 plant species, many new and improved photographs and the text has been fully updated to reflect the latest regulatory status of each plant.

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#### **Medicinal Plant Biotechnology**

Edited by R Arora, Defence Research and Development Organization, India

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## Leafy Medicinal Herbs

### Botany, Chemistry, Postharvest Technology and Uses

Edited by **Dawn C.P. Ambrose**, ICAR, India, **Annamalai Manickavasagan**, Sultan Qaboos University and **R. Naik**, ICAR, India

Medicinal herbs are rich in vitamins, minerals and antioxidants, and are able to synthesize secondary metabolites with disease preventive properties. It is due to these qualities that herbs have been used throughout history for flavouring and in food, medicine and perfumery preparations. They are also often considered to be safe alternatives to modern medicines because of their healing properties. Though interest in medicinal and aromatic crops is growing worldwide, there is still little focus on the area of leafy medicinal herbs.

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. Chapters discuss the botany of the crop, including its history and origin, geographical distribution and morphology, before focusing on the chemical composition and phytochemical attributes. They then review postharvest technology aspects such as processing and value addition, before concluding with the general and pharmacological uses for each crop. A complete compilation of the subject, this book forms a vital resource for researchers, students, farmers and industrialists in the area of leafy medicinal herbs.

**July 2016 | Hardback | 296 Pages | 9781780645599**

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Edited by L Terry, Cranfield University, UK

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#### Analytical Techniques for Natural Product Research

S Kumar, Directorate of Medicinal and Aromatic Plants Research, India

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## Plants and Planting on Landscape Sites Selection and Supervision

**Peter Thoday**, Independent Consultant, Thoday Associates, UK

Landscape architects, design professionals and contractors alike require a good working knowledge of how to achieve plant establishment under a variety of conditions and situations. Overlooking the physiological needs of plants can lead to potential problems that can have negative financial and design impacts. *Plants and Planting on Landscape Sites* is a practical book giving practitioners in landscape design the essential horticultural knowledge and concepts needed to understand the limits of the material they are working with and make informed decisions.

From specification to supervision, this book provides concrete advice along with practical examples for each stage of a typical project. It contains sections on: the landscape site; selecting, assessing and purchasing plants; understanding nursery practice; forms and types of transplant traded; seeds and direct seeding; pre-planting site work; transplanting; and care in the establishment phase. Specially commissioned high quality line diagrams and full colour photographs are used throughout to demonstrate meaning and give examples.

Peter Thoday is an experienced consultant, international lecturer in landscape management, and past president of The Institute of Horticulture, who has had numerous roles in high-profile projects, such as Horticultural Director of the Eden Project. This book is as an essential tool for landscape architects, project managers, contractors and nursery managers.

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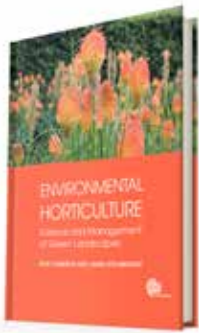
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## Environmental Horticulture Science and Management of Green Landscapes

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

Environmental horticulture – also referred to as landscape horticulture and amenity horticulture – is the umbrella term for the horticulture that we encounter in our daily lives. This includes parks, botanic gardens, sports facilities, landscape gardens, roundabouts, cemeteries, and shopping centres – any public space which has grass, planting and trees.

A complete and comprehensive guide to an area most of us take for granted, *Environmental Horticulture*:

- Comments and critiques contemporary thinking on the subject
- Explores the role, value and application of horticulture in different landscapes
- Reviews the importance and impact of horticulture on the wider environment
- Covers practical management advice for categories of environmental horticulture such as turf grass, bedding plants, trees, grasslands and green roofs

A vital resource for undergraduate and postgraduate students, this book is also a valuable addition to academic departments with an interest in green space management and wider environmental issues.

**March 2016 | Paperback | 326 Pages | 9781780641386**

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## Almonds

### Botany, Production and Uses

Edited by **Rafel Socias i Compay**, CITA de Aragón, Spain and **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. Almonds are an important crop; they are highly regarded for their flavour, nutritional properties and culinary uses, and almond oil is used widely in food, cosmetic and pharmaceutical production. They are easy to transport and have long storability, facilitating global dissemination. Demand is constantly increasing and global production has more than doubled in the last 20 years.

The popularity of almonds and the increase in demand has required new plantings and a response to ongoing changes in cultural and climatic conditions. *Almonds: Botany, Production and Uses* meets the need for up-to-date information on this crop and covers:

- botany and taxonomy
- cultivation, genetics and breeding
- propagation, orchard management and harvesting
- pests and diseases
- nutrition, marketing and utilization

Authored by an international team of experts and presented in full colour throughout, this book is an essential resource for academic researchers and extension workers, as well as growers, orchard managers and industry personnel.

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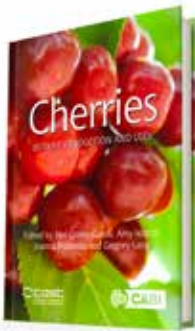
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## Cherries

### 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

*Cherries: Botany, Production and Uses* addresses the breeding, genetics, ecophysiology, production, protection, and utilisation of sweet and sour cherries (*Prunus avium* and *Prunus cerasus*). 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.

Addressing the current status of cherry production worldwide, this book:

- Explores scientific developments in genetics and genomics enabled by modern molecular techniques
- Includes information on a significant number of new varieties, rootstocks and training systems that have been released or developed to improve the efficiency and profitability of cherry orchards
- Covers key areas of on-going research, including damage from non-native insect pests and diseases, and threats to achieving sustainable cultivation of cherries such as climate change

Authored by an international team of experts and presented in full colour throughout, this book is an invaluable resource for research scientists and students, and all professionals working in the cherry value chain such as growers, processors, and marketers.

July 2017 | Hardback | 550 Pages | 9781780648378

£125 | €165 | \$205

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A Bhargava, Amity University Uttar Pradesh, India and S Srivastava, Amity University Uttar Pradesh, India

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#### Avocado: Botany, Production and Uses

Edited by B Schaffer, University of Florida, USA, B N Wolstenholme, University of KwaZulu-Natal, South Africa, A W Whiley, Sunshine Horticultural Services, Australia

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## Strawberry

### Growth, Development and Diseases

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

Methods of strawberry cultivation have undergone extensive modification and this book provides an up-to-date, broad and balanced scientific review of current research and emerging challenges. Subjects covered range from plant propagation, architecture, genetic resources, breeding, abiotic stresses and climate change, to evolving diseases and their control. These topics are examined in three sections:

- Genetics, Breeding and Omics – covering genetic resources, breeding, metabolomics, transcriptomics, and genetic transformation of strawberry.
- Cultivation Systems and Propagation – discusses plant architecture, replanting problems and plant propagation techniques.
- Disease and Stress Management – deals with traditional and emerging fungal diseases, their diagnosis and modern biocontrol strategies, and biotechnological interventions for dealing with the challenges of climate change.

*Strawberry: Growth, Development and Diseases* is written by an international team of specialists, using figures and tables to make the subject comprehensible and informative. It is an essential resource for academics and industry workers involved in strawberry research and development, and all those interested in the commercial cultivation of strawberries.

**October 2016 | Hardback | 348 Pages | 9781780646633**

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## Blackberries and Their Hybrids

### Crop Production Science in Horticulture

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

This practical book provides a comprehensive and accessible overview of all aspects of the commercial production of blackberries and their hybrids, covering plant growth and development, cultivar description and selection, propagation, pruning, soil and water management, postharvest management, economics and marketing, and pest identification and management. Cultivated blackberries are a relatively new crop, but with new cultivars and cultural practices they are now

grown and available worldwide. Production regions have expanded internationally due to innovative methods showing much promise and evidence of human health benefits.

*Blackberries and Their Hybrids* explains the many complex steps involved in producing a conventional or an organic crop for the fresh and processed markets, and:

- Contains information gathered from global sources
- Is appropriate for areas that can produce blackberries for the local, domestic and/or export markets
- Includes full-color images throughout

Authored by a team of experts, this book is essential for growers, extension workers, fruit industry personnel, students, and lecturers involved in the commercial production of blackberries and their hybrids.

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## The Lime

### Botany, Production and Uses

Edited by **M. Mumtaz Khan**, Sultan Qaboos University, Oman, **R. Al-Yahyai**, Sultan Qaboos University, Oman, **F. Al-Said**, The Research Council, Oman

This book is a comprehensive and up-to-date resource covering the botany, production and uses of limes. The lime is an important fruit crop throughout citrus producing regions of the world, with its own specific benefits, culture and marketplace, but producers face issues affecting successful cultivation and production.

*The Lime: Botany, Production and Uses* contains detailed information on:

- Breeding, genetics and biodiversity of limes
- Orchard establishment, management and precision agriculture
- Pests and diseases, including the latest knowledge regarding current threats such as Witches' Broom Disease and Citrus Greening
- Harvesting and postharvest management
- Traditional and commercial uses of limes

Authored by an international team of experts and presented in full colour throughout, this book is an essential resource for academic researchers and specialist extension workers, in addition to growers and producers involved in the citrus industry.

**May 2017 | Hardback | 236 Pages | 9781780647845**

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#### **Cherries: Botany, Production and Uses**

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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. The book retains the high quality colour section and the content has been revised to reflect up-to-date information on the key issues of effective postharvest handling.

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## Peas and Beans

### Crop Production Science in Horticulture

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

This practical book provides an accessible overview of all aspects of pea and bean production, including botany and physiology, breeding, agronomy, weed management, pests and diseases, harvesting, nutritional value and uses. It also reflects on the constraints and opportunities in the future for peas and beans, exploring their role in food sustainability and crop rotation, and various factors affecting supply and demand such as climate change and breeding technologies.

Peas and beans are crops of economic, social and agronomic importance and this volume provides the specialist knowledge needed to ensure good quality standards are met. It includes:

- Coverage of the main types of peas and beans grown on a significant scale or commercially produced in large area farming
- Key information relating to the role of peas and beans in biological nitrogen fixation
- Extensive coverage from the technology of cultivation to postharvest industry
- High-quality photos, presented in full colour throughout

Authored by a recognized authority with extensive experience in applied research, this book is an ideal resource for practical agronomists, advisors and producers, extension workers, horticulture students and all those involved in the production of peas and beans.

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## Automation in Tree Fruit Production Principles and Practice

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

Automation in agriculture is made possible by the integration of advanced agricultural technology and precision agriculture management. This book, uniquely, focuses on applications of automation to the important industry of tree fruit production. It is a representative, concise overview of the variety of technologies currently being applied to tree fruit crops around the world and the challenges faced by engineers and farmers that these technologies raise.

This book:

- Takes a systematic approach to how to apply precision and automation technologies to fruit production
- Combines the disciplines of economics, horticulture, and engineering
- Is illustrated throughout with case studies describing actual applications of automation technology

Written by experts in agricultural automation technology from around the world, this book is suitable for researchers and graduate students of agriculture systems, agricultural and biological engineering, crop and soil sciences, horticulture and precision agriculture.

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