

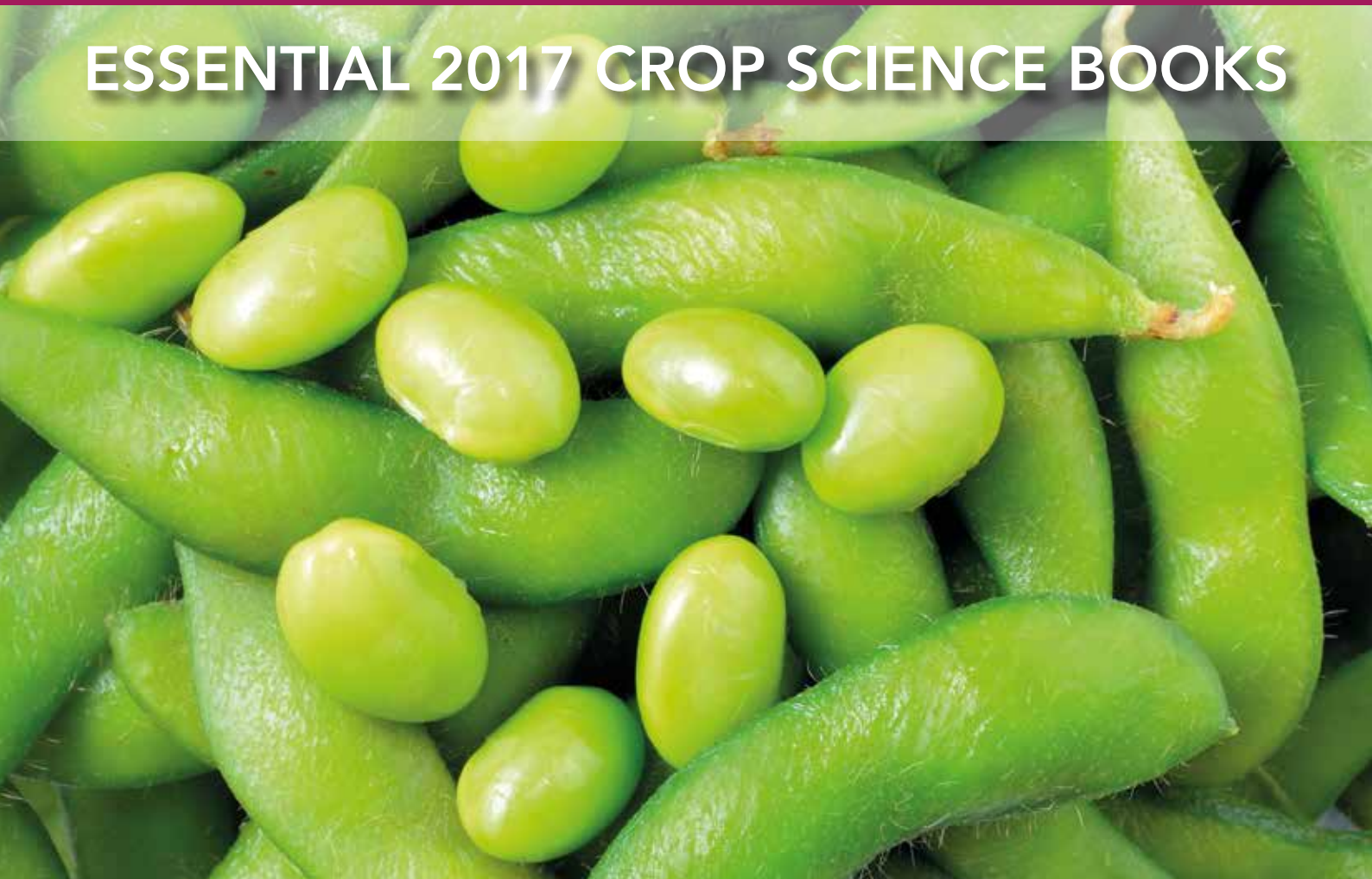
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The team at Burleigh Dodds

Burleigh Dodds Science Publishing is a new company founded by Rob Burleigh and Francis Dodds, formerly of the award winning Woodhead Publishing (WP) team. WP built up one of the world's leading lists in food science, widely admired by researchers and the publishing industry for quality and customer focus.



Rob Burleigh
Managing Director

"There can be few more important challenges than feeding the world's growing population. We will be bringing together expertise and experience from across the science community to ensure their work is published in an innovative and ground breaking way."



Francis Dodds
Editorial Director

"I am really excited to be bringing our unique publishing format to this new business. We will focus our publishing model on exacting customer research and develop our products, in digital and print formats, to deliver to researchers in agricultural science the information they want when they want it."



Amanda Renwick
Content Delivery Specialist



Martin Woodhead
Director and Chairman



Kit van Tulleken
Director



John Parsons
Director

One of the world's greatest scientific challenges



Feeding the world's population through research in agricultural science

The Food and Agriculture Organisation (FAO) has predicted a potential 60% increase in the demand for food by 2050 as the population reaches 9 billion.

Burleigh Dodds Science Publishing is a new independent publisher and its work will help researchers in agricultural science address how to feed a growing population in the face of climate change and increasing competition for land, water and other resources.

Through our publications we will help researchers identify key issues and trends and find their way more quickly to the research most useful to them, allowing them to plan their own research programmes and link up to other research centres to collaborate more effectively.

What others are saying about Wheat...

'With their breadth of coverage, distinguished editor and the international expertise of the contributing authors, these two volumes promise to be a standard reference for wheat scientists around the world.'

Dr Sanjaya Rajaram, Winner of the 2014 World Food Prize and Former Director of the International Wheat Maize and Wheat Improvement Center (CIMMYT)



What others are saying about Grain legumes...

'This reference will greatly improve the visibility of, and access to knowledge about, crops that play such a critical role in sustainable cropping systems, nutrition and income, yet which often remain under the radar of governments and policy makers and which do not always receive the investment they deserve.'

Jeff Ehlers, Program Officer in Agricultural Development, Bill & Melinda Gates Foundation



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IN AGRICULTURAL SCIENCE

What is 'climate-smart-publishing' and how is Burleigh Dodds Science Publishing achieving it?

Let's start with 'climate-smart'. It is widely recognised that agriculture is a significant contributor to global warming and climate change. It has been estimated that agriculture is responsible for 10-12% of greenhouse gas emissions. This figure rises as high as 24% if forestry and other land use is included, taking into account such factors as deforestation to clear land for more crops and livestock.

Agriculture needs to reduce its environmental impact and adapt to current climate change whilst still feeding a growing population i.e. become more 'climate-smart'. Burleigh Dodds Science Publishing is playing its part in achieving this by bringing together key research on making the production of the world's most important crops and livestock products more sustainable. Our aim is to create a foundation of knowledge on which researchers can build to meet the challenge of climate-smart agriculture.

So – on to 'smart-publishing'. Based on extensive research, our publishing programme specifically targets the challenge of climate-smart agriculture. We are building a database of review chapters, each written by a leading expert, which systematically covers both the major crops and livestock products and, at the same time, each step in the value chain for their production, from breeding through to harvest. Using the latest technology to manage this wealth of material, we have rapidly built up a major publishing programme which we plan to publish in a range of formats to suit our customers, whether books or individual chapters, or in print or electronic formats.

In these ways we are using 'smart-publishing' to help achieve 'climate-smart' agriculture.

In these ways we are using 'smart-publishing' to help achieve 'climate-smart' agriculture.



EXPERIENCE



Customer research is the foundation of all that we do at Burleigh Dodds.

Our experience tells us that delivering content in print or electronic form has to provide the reader with the information they want and when they want it. Customer research is an integral part of our commissioning process and leads the development of our products and services.

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Engagement with our customers and our authors is key to success.

We have developed a commissioning process that ensures we provide support for editors and authors. We are responsible for inviting, contracting and liaising with the authors and provide an online manuscript submission system, ScholarOne™, allowing them to engage with us at all times.

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Burleigh Dodds is built on a reputation of innovation.

Whether you are a reader, an editor or an author, we provide the best quality service, product and user experience.

Our experience has allowed us to develop an innovative methodology for successful publishing, underpinned by our desire to always put the customer first.

CEREALS



Achieving sustainable cultivation of maize - Vol 1 From improved varieties to local applications

Editor Dr Dave Watson
CGIAR Maize Research Program
Manager, CIMMYT, Mexico

ISBN - print 978-1-78676-008-1
ISBN - ePub 978-1-78676-010-4
ISBN - ePDF 978-1-78676-011-1
Pages 348
Pub. Date June 2017
Price £150/\$190/€180/C\$255
Series No AS01

This volume focuses on breeding new varieties with desirable traits such as drought tolerance and improved nutritional value as well as how such innovations can be successfully deployed in the developing world.



Achieving sustainable cultivation of maize - Vol 2 Cultivation techniques, pest and disease control

Editor Dr Dave Watson
CGIAR Maize Research Program
Manager, CIMMYT, Mexico

ISBN - print 978-1-78676-012-8
ISBN - ePub 978-1-78676-014-2
ISBN - ePDF 978-1-78676-015-9
Pages 470
Pub. Date July 2017
Price £190/\$240/€230/C\$325
Series No AS02

Volume 2 covers methods for improving maize cultivation, from seed selection to nutrition, irrigation and techniques such as intercropping. It also reviews research on key pests and diseases and methods for their control in making cultivation more efficient and sustainable.



Achieving sustainable cultivation of wheat - Vol 1 Breeding, quality traits, pests and diseases

Editor Prof. Peter Langridge
The University of Adelaide, Australia

ISBN - print 978-1-78676-016-6
ISBN - ePub 978-1-78676-018-0
ISBN - ePDF 978-1-78676-019-7
Pages 686
Pub. Date July 2017
Price £210/\$265/€250/C\$355
Series No AS05

This book reviews advances in breeding techniques as well as their application to produce drought-resistant and other improved varieties. It also discusses wheat nutritional quality. Finally it reviews developments such as disease-resistant varieties and other techniques to combat pests and diseases.



Achieving sustainable cultivation of wheat - Vol 2 Cultivation techniques

Editor Prof. Peter Langridge
The University of Adelaide, Australia

ISBN - print 978-1-78676-020-3
ISBN - ePub 978-1-78676-022-7
ISBN - ePDF 978-1-78676-023-4
Pages 350
Pub. Date July 2017
Price £130/\$165/€155/C\$220
Series No AS06

Volume 2 discusses ways of improving cultivation from variety selection to post-harvest storage. It reviews trends in integrated crop management, sustainable intensification and organic cultivation before concluding by looking at ways of supporting smallholders in the developing world.



Achieving sustainable cultivation of rice - Vol 1 Breeding for higher yield and quality

Editor Prof. Takuji Sasaki
Tokyo University of Agriculture, Japan

ISBN - print 978-1-78676-024-1
ISBN - ePub 978-1-78676-026-5
ISBN - ePDF 978-1-78676-027-2
Pages 298
Pub. Date May 2017
Price £140/\$175/€170/C\$240
Series No AS03

This collection reviews advances in breeding techniques as well as improving traits such as flood or drought resistance. It also discusses advances in understanding the nutritional role of rice and ways this can be enhanced to feed a growing population.



Achieving sustainable cultivation of rice - Vol 2 Cultivation techniques, pest and disease control

Editor Prof. Takuji Sasaki
Tokyo University of Agriculture, Japan

ISBN - print 978-1-78676-028-9
ISBN - ePub 978-1-78676-030-2
ISBN - ePDF 978-1-78676-031-9
Pages 438
Pub. Date May 2017
Price £150/\$190/€180/C\$255
Series No AS04

Volume 2 reviews ways of improving cultivation of rice, from planting to soil management, nutrition and irrigation as well as techniques such as integrated crop management. It also discusses key pests and diseases and methods for their control in making cultivation more productive and sustainable.

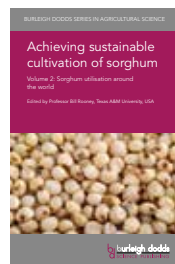


Achieving sustainable cultivation of sorghum - Vol 1 Genetics, breeding and production techniques

Editor Prof. Bill Rooney
Texas A&M University, USA

ISBN - print 978-1-78676-120-0
ISBN - ePub 978-1-78676-122-4
ISBN - ePDF 978-1-78676-123-1
Pages 380
Pub. Date December 2017
Price £180/\$225/€215/C\$305
Series No AS31

Sorghum is the fifth most important cereal crop after rice, maize, wheat and barley. The first volume in this two-volume collection reviews advances in understanding sorghum physiology and genetics as well as developments in breeding new varieties and their more efficient cultivation.



Achieving sustainable cultivation of sorghum - Vol 2 Sorghum utilisation around the world

Editor Prof. Bill Rooney
Texas A&M University, USA

ISBN - print 978-1-78676-124-8
ISBN - ePub 978-1-78676-126-2
ISBN - ePDF 978-1-78676-127-9
Pages 260
Pub. Date November 2017
Price £130/\$165/€155/C\$220
Series No AS32

Volume 2 in this sequence summarises key research on the wide range of uses of sorghum as food, animal feed and for biofuel. It also assesses the challenges of growing sorghum in different parts of the world and how these are being addressed.

ROOTS, TUBERS & PULSES



Achieving sustainable cultivation of cassava - Vol 1
Cultivation techniques
Editor Dr Clair Hershey
formerly International Center for Tropical Agriculture (CIAT), Colombia
ISBN - print 978-1-78676-000-5
ISBN - ePub 978-1-78676-002-9
ISBN - ePDF 978-1-78676-003-6
Pages 424
Pub. Date July 2017
Price £190/\$240/€230/C\$325
Series No AS20

This collection begins by reviewing the current state of cassava cultivation, before going on to review the range of techniques enabling sustainable intensification, from seed systems management to intercropping and post-harvest management.



Achieving sustainable cultivation of cassava - Vol 2
Genetics, breeding, pests and diseases
Editor Dr Clair Hershey
formerly International Center for Tropical Agriculture (CIAT), Colombia
ISBN - print 978-1-78676-004-3
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ISBN - ePDF 978-1-78676-007-4
Pages 322
Pub. Date August 2017
Price £140/\$175/€170/C\$240
Series No AS21

Volume 2 reviews genetic resources and breeding techniques as well as their use to produce varieties with traits such as enhanced resistance to biotic and abiotic stresses. It also discusses key pests and diseases and their management in making cultivation more efficient and sustainable.



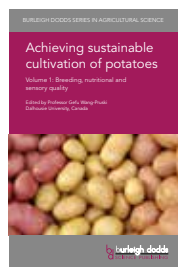
Achieving sustainable cultivation of grain legumes - Vol 1
Advances in breeding and cultivation techniques
Editor Dr Shoba Sivasankar et al
CGIAR Research Program on Grain Legumes, ICRISAT, India
ISBN - print 978-1-78676-136-1
ISBN - ePub 978-1-78676-138-5
ISBN - ePDF 978-1-78676-139-2
Pages 400
Pub. Date November 2017
Price £190/\$240/€230/C\$325
Series No AS35

Grain legumes are widely seen as a key food security crop in the developing world. This major two-collection reviews the wealth of recent research on improving cultivation of this major crop. This first volume ranges from plant physiology and breeding through to better cultivation techniques.



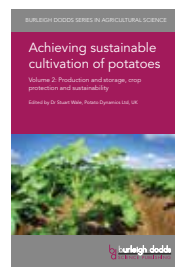
Achieving sustainable cultivation of grain legumes - Vol 2
Improving cultivation of particular grain legumes
Editor Dr Shoba Sivasankar et al
CGIAR Research Program on Grain Legumes, ICRISAT, India
ISBN - print 978-1-78676-140-8
ISBN - ePub 978-1-78676-142-2
ISBN - ePDF 978-1-78676-143-9
Pages 360
Pub. Date October 2017
Price £170/\$215/€205/C\$290
Series No AS36

The second volume in this collection focusses on improving the cultivation of particular grain legumes, starting with common beans, chickpeas, lentils, soybeans and groundnuts. A second group of chapters discusses cowpea, faba beans and pigeonpea.



Achieving sustainable cultivation of potatoes - Vol 1
Breeding, nutritional and sensory quality
Editor Prof. Gefu Wang-Pruski
Dalhousie University, Canada
ISBN - print 978-1-78676-100-2
ISBN - ePub 978-1-78676-102-6
ISBN - ePDF 978-1-78676-103-3
Pages 320
Pub. Date December 2017
Price £150/\$190/€180/C\$255
Series No AS26

Potatoes have long been one of the world's most important crops. The first volume in this two-volume collection reviews advances in understanding plant physiology, genetics and breeding. It also discusses ways of improving the nutritional and sensory properties of potatoes.



Achieving sustainable cultivation of potatoes - Vol 2
Production and storage, crop protection and sustainability
Editor Dr Stuart Wale, Potato Dynamics Ltd, UK
ISBN - print 978-1-78676-128-6
ISBN - ePub 978-1-78676-130-9
ISBN - ePDF 978-1-78676-131-6
Pages 440
Pub. Date January 2018
Price £210/\$265/€250/C\$355
Series No AS33

Volume 2 discusses ways of improving cultivation across the supply chain from seed selection and planting to post-harvest storage. It also reviews research on the better understanding and management of key pests and diseases as well as ways of improving sustainability.

FRUIT, VEGETABLES & NUTS



Achieving sustainable cultivation of apples
Editor Prof. Kate Evans
Washington State University, USA
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ISBN - ePub 978-1-78676-034-0
ISBN - ePDF 978-1-78676-035-7
Pages 616
Pub. Date June 2017
Price £220/\$275/€265/C\$375
Series No AS18

This book reviews our understanding of tree and fruit physiology and how it can be used in breeding better varieties. It also discusses pests and diseases and ways they can be prevented or controlled to make cultivation more productive.



Achieving sustainable cultivation of tomatoes
Editors Dr. Autar Mattoo, ARS-USDA, USA & Prof. Avtar Handa, Purdue University, USA
ISBN - print 978-1-78676-040-1
ISBN - ePub 978-1-78676-042-5
ISBN - ePDF 978-1-78676-043-2
Pages 564
Pub. Date March 2017
Price £180/\$225/€215/C\$305
Series No AS07

This book reviews key developments in tomato breeding, including developing improved varieties with desirable traits such as drought or pest resistance. It also discusses ways of improving cultivation techniques as well as pests, diseases and their control.

FRUIT, VEGETABLES & NUTS



Achieving sustainable cultivation of bananas - Vol 1 Cultivation techniques

Editors Prof. Gert Kema, Wageningen University & Research, The Netherlands & Prof. André Drenth, University of Queensland, Australia

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 ISBN - ePub 978-1-78676-158-3
 ISBN - ePDF 978-1-78676-159-0
 Pages 480
 Pub. Date September 2018
 Price £240/\$300/€290/C\$410
 Series No AS40

Bananas are the world's most popular fruit and the fourth most important crop in the developing world after rice, wheat and maize. The volume reviews current production around the world and how developments in cultivation practice can be used to improve yields sustainably.



Achieving sustainable cultivation of mangoes

Editors Dr Víctor Galán Saúco, Instituto Canario de Investigaciones Agrarias (ICIA), Spain & Dr Ping Lu, Charles Darwin University, Australia

ISBN - print 978-1-78676-132-3
 ISBN - ePub 978-1-78676-134-7
 ISBN - ePDF 978-1-78676-135-4
 Pages 420
 Pub. Date December 2017
 Price £200/\$250/€240/C\$340
 Series No AS34

Mangoes are grown widely across Asia, Africa, the Americas and Southern Europe. This volume summarises the wealth of recent research on enhancing mango cultivation. Topics include developments in understanding mango genetics and breeding as well as cultivation, pest and disease management.

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