

BURLEIGH DODDS SERIES IN AGRICULTURAL SCIENCE

## Integrated disease management of wheat and barley

Edited by Professor Richard Oliver, Curtin University, Australia



**bd** burleigh dodds  
SCIENCE PUBLISHING

## NOW AVAILABLE

NEW!

### About the book

Diseases remain a serious problem in cereal cultivation. The first parts of the book review current research on fungal diseases of cereals and the challenge of fungicide resistance. The book then discusses breeding resistant varieties and methods for integrated disease management of cereals.

### About the editor

**Professor Richard Oliver** is John Curtin Distinguished Professor in the Centre for Crop Disease Management at Curtin University, Australia. Amongst other honours, Professor Oliver is an Honorary Fellow of the National Institute of Agricultural Botany (NIAB), Honorary Professor at Exeter and Nottingham Universities and was previously a Fellow at Rothamsted Research in the UK and a Visiting Professor at Wageningen University, The Netherlands. He is also a past President of the British Society for Plant Pathology.

### Integrated disease management of wheat and barley

Available in print and digital formats:

ISBN - print	978-1-78676-216-0
Pages	366
Pub. Date	October 2018
Price	£200/\$260/€240/C\$340
Series No	AS19

**Order via our online bookshop at [www.bdspublishing.com](http://www.bdspublishing.com), your usual book supplier, or pass to your librarian.**

Enquiries to [info@bdspublishing.com](mailto:info@bdspublishing.com)

**For a complete list of titles visit [www.bdspublishing.com](http://www.bdspublishing.com)**

T (UK): +44 (0)1223 839365

T (US): +1 215-928-9112

[www.bdspublishing.com](http://www.bdspublishing.com)

E: [info@bdspublishing.com](mailto:info@bdspublishing.com)

 [@bdspublishing](https://twitter.com/bdspublishing)

 Burleigh Dodds Science Publishing

**bd** burleigh dodds  
SCIENCE PUBLISHING

## Integrated disease management of wheat and barley

Edited by: Professor Richard Oliver, Curtin University, Australia

### Part 1 Fungal diseases of cereals

1. Diseases affecting wheat and barley: rusts: *R. F. Park, University of Sydney, Australia*
2. Fusarium diseases: biology and management perspectives: *Edward C. Rojas, Hans J. L. Jørgensen, Birgit Jensen and David B. Collinge, University of Copenhagen, Denmark*
3. Diseases affecting wheat: Septoria tritici blotch: *S. B. Goodwin, USDA-ARS, USA*
4. Diseases affecting wheat and barley: powdery mildew: *Javier Sánchez-Martín, Salim Bourras and Beat Keller, University of Zürich, Switzerland*
5. Diseases affecting wheat: tan spot: *C. S. Moffat, Curtin University, Australia; and F. M. Santana, Embrapa Trigo, Brazil*
6. Diseases affecting wheat: Septoria nodorum blotch: *A. K. Ruud and M. Lillemo, Norwegian University of Life Sciences, Norway*
7. A lesser-known pathogen of wheat: *Bipolaris sorokiniana*: *E. Hill and P. Solomon, The Australian National University, Australia*
8. Diseases affecting wheat: wheat blast: *J. L. N. Maciel, Embrapa Wheat, Brazil*
9. Diseases affecting barley: net blotches: *Simon R. Ellwood, Curtin University, Australia; and Hugh Wallwork, South Australian Research and Development Institute, Australia*
10. Diseases affecting barley: scald: *Wolfgang Knogge, Leibniz Institute of Plant Biochemistry, Germany*

### Part 2 Key challenges in integrated disease management of cereals

11. Challenges and prospects for fungicidal control of wheat diseases: *R. J. Bryson and H-D. Brix, BASF SE, Germany*
12. Occurrence and avoidance of fungicide resistance in cereal diseases: *Lise Nistrup Jørgensen, Aarhus University, Denmark; Richard Peter Oliver, Curtin University, Australia; and Thies Marten Heick, Aarhus University, Denmark*
13. Trends in exploring wheat and barley germplasm for novel disease resistance traits: *Sambasivam Periyannan, Australian National University, Australia; and Lee Hickey, University of Queensland, Australia*
14. Developments in diagnostic techniques for cereal pathogens: *Sadia Iqbal and Michael G. K. Jones, Western Australian State Agricultural Biotechnology Centre - Murdoch University, Australia*
15. Natural antifungal compounds for the control of diseases in wheat and other cereals: *A. Schouten, Wageningen University, The Netherlands*
16. The role of crop rotation, intercropping and tillage practices for foliar disease management of wheat and barley: *T. K. Turkington, Agriculture and Agri-Food Canada, Canada; K. Xi, Alberta Agriculture and Forestry, Canada; and H. R. Kutcher, University of Saskatchewan, Canada*

