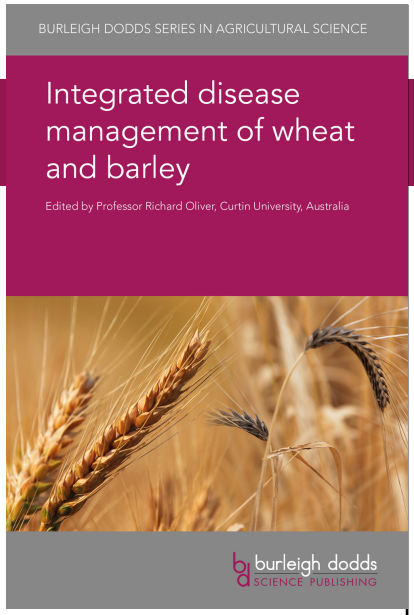

New title information

Integrated disease management of wheat and barley

Edited by: Prof. Richard Oliver, Curtin University, Australia

Endorsement:

"This is an impressive compilation of up-to-date information on fungal diseases of wheat and barley and their management. This volume is destined to become a key reference work for anyone keen to learn more about fungal diseases of these two major crops, and the latest options for limiting their impact worldwide."
Professor John Lucas, formerly Head of Plant Pathology at Rothamsted Research, UK; and Honorary Professor of Molecular Plant Pathology at the University of Nottingham, UK.

Description:

Diseases remain a serious problem in wheat and barley cultivation. It has been estimated that around 20% of global crop production is lost to diseases. Leading fungal diseases affecting wheat and barley include rusts, Septoria blotches, powdery mildew, tan spot, spot blotch, net blotch, scald and Fusarium species. Conventional control using fungicides faces a number of challenges such as increasing regulation and the spread of fungicide resistance.

This collection sums up the wealth of research addressing this challenge. Part 1 reviews the latest research on the main fungal diseases of cereals. Part 2 discusses the extent of fungicide resistance and how it can best be managed. The third part of the book surveys the range of techniques for breeding varieties of wheat and other cereals resistant to fungal pathogens, whilst the final section of the book explores the range of methods for integrated disease management of cereals.

With its distinguished editor and international team of expert authors, this will be a standard reference for cereal scientists in universities, government and other research centres and companies involved in wheat cultivation.

Key features:

- Reviews key recent research on the main fungal diseases, their modes of infection and potential strategies for dealing with them
- Summaries the range of techniques for breeding more resistant varieties
- Assesses ways to manage fungicide resistance and the range of methods in developing integrated disease management of cereals

Audience:

Academic researchers in cereal science; international and national agencies supporting cereal production; companies supplying the cereals sector (e.g. seed companies; fertiliser and pesticide manufacturers)

Editor details:

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 both 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 President-Elect of the British Society for Plant Pathology.

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