

Achieving durable disease resistance in cereals

Edited by Professor Richard Oliver, Curtin University, Australia



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Achieving durable disease resistance in cereals

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

Endorsement:

"The proposed collection of chapters by leading scientists broadly covers all aspects of durable resistance in cereals and represents one of the most comprehensive resources available to scientists on this topic. It will serve as a key reference on disease resistance for many years to come. I am very much looking forward to having a personal copy on my desk."

Mark E. Sorrells, School of Integrative Plant Science, Plant Breeding and Genetics, Cornell University, USA

Description:

With the continuous struggle between crops and the diseases which exploit them, achieving durable disease resistance remains a challenge. The sector must influence developments in key areas to be able to achieve this goal for some of the major diseases that affect cereal crops.

Achieving durable disease resistance in cereals provides an authoritative review of these developments, from advances in understanding pathogen biology/epidemiology and plant pathogen interactions, to identifying sources of resistance and advances in techniques for breeding new varieties. This collection offers a comprehensive discussion on the major diseases that affect cereal crops, including, but not limited to, leaf rust, Fusarium head blight, Septoria tritici blotch, tan spot and powdery mildew.

Edited by **Professor Richard Oliver**, Curtin University, Australia, *Achieving durable disease resistance in cereals* will be an excellent reference framework for researchers in cereal science, arable farmers, government and private sector agencies supporting cereal production and companies supplying the cereals sector (e.g. seed companies; fertiliser and pesticide manufacturers).

Key features:

- Provides an authoritative review of the key developments in achieving durable disease resistance in cereal crops
- Comprehensive coverage of the major diseases that affect cereal crops (leaf rust, Fusarium head blight, Septoria tritici blotch, tan spot, powdery mildew)
- Assesses the key challenges in breeding durable disease-resistant cereals faced globally, with dedicated chapters to the regional strategies established by North America, Latin America, North-west Europe, North Africa and West Asia, Sub-Saharan Africa and the Indo-Gangetic Plain

Audience:

Researchers in cereal science, arable farmers, government and private sector agencies supporting cereal production and 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 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.

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