

Plant Pathology

Volume 60, Number 1, February 2011

Contents

Editorial

- 1 *S. Chakraborty*
Climate change and plant diseases

Reviews

- 2 *S. Chakraborty and A. C. Newton*
Climate change, plant diseases and food security:
an overview
- 15 *K. A. Garrett, G. A. Forbes, S. Savary, P. Skelsey,
A. H. Sparks, C. Valdivia, A. H. C. van Bruggen,
L. Willocquet, A. Djurle, E. Duveiller,
H. Eckersten, S. Pande, C. Vera Cruz and J. Yuen*
Complexity in climate-change impacts: an
analytical framework for effects mediated by
plant disease
- 31 *M. W. Shaw and T. M. Osborne*
Geographic distribution of plant pathogens in
response to climate change
- 44 *B. D. L. Fitt, B. A. Fraaije, P. Chandramohan
and M. W. Shaw*
Impacts of changing air composition on severity
of arable crop disease epidemics
- 54 *D. M. Eastburn, A. J. McElrone and D. D. Bilgin*
Influence of atmospheric and climatic change on
plant-pathogen interactions
- 70 *I. B. Pangga, J. Hanan and S. Chakraborty*
Pathogen dynamics in a crop canopy and their
evolution under changing climate
- 82 *S. G. Pritchard*
Soil organisms and global climate change
- 100 *P. Juroszek and A. von Tiedemann*
Potential strategies and future requirements for
plant disease management under a changing
climate
- 113 *J. Luck, M. Spackman, A. Freeman, P. Trebicki,
W. Griffiths, K. Finlay and S. Chakraborty*
Climate change and diseases of food crops
- 122 *R. Ghini, W. Bettiol and E. Hamada*
Diseases in tropical and plantation crops as
affected by climate changes: current knowledge
and perspectives
- 133 *R. N. Sturrock, S. J. Frankel, A. V. Brown,
P. E. Hennon, J. T. Kliejunas, K. J. Lewis,
J. J. Worrall and A. J. Woods*
Climate change and forest diseases
- 150 *N. Magan, A. Medina and D. Aldred*
Possible climate-change effects on mycotoxin
contamination of food crops pre- and postharvest