Biopesticides 2016: Biofungicides, Bioinsecticides, Bionematicides and Bioherbicides

Description: Biopesticides are now widely available options in many crop protection programmes. They are firmly established for use in fruit and vegetables and are increasingly available for broadacre field crops.

The leading R&D based companies have strengthened their portfolios based on acquisitions and collaborations. Of the many specialist biopesticide companies, several are now achieving a global reach.

The development of the biopesticides sector is being driven by a number of factors including their favourable environmental profile and absence of chemical residues; the difficulty in finding novel chemical active ingredients; and improved understanding of how best to use biological products, particularly in integrated pest management systems.

This extensively updated report summarises the whole area of crop protection by biological agents, with the main focus on the control of pests and diseases by products based on microorganisms.

The market is described and the product portfolios and activities of the major companies and the predominant smaller companies are reviewed. Possible future developments are considered by a review of recent patent applications.

Biofungicides, bioinsecticides, bionematicides and bioherbicides are reviewed, with technical profiles of key microorganisms used in biopesticide products.

Also fully discussed are aspects of the production, formulation and application of biopesticides differing from those of conventional chemical crop protection products.

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