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The morphological characteristics of bacterial pathogens have limited application for their detection and identification. Hence, cultural, biochemical and physiological characteristics have to be determined for the detection and identification of bacteria up to generic/species level.

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biochemical and physiological characteristics have been used for the detection, identification and differentiation of fungal pathogens up to species level. Pathogenicity on a set of differential host plant species or crop cultivars has been useful for the identification of physiologic races existing ...

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With limited morphological characteristics of the virus particles and lack of physiological functions, the need for the development of techniques based on the characteristics of the viral proteins and genomic nucleic acids was realized in order to detect, identify, differentiate and quantify viruses in the infected plants/planting materials with or without symptoms of infection.

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Detection of microbial pathogens in crop plants and other host plant species and also in the environment such as soil, water and air may be required in order to (i) determine the presence and quantity of the pathogen(s) in a crop to initiate preventive or curative measures; (ii) assess the effectiveness of cultural, physical, chemical or biological methods of containing them; (iii) certify seeds and planting materials for quarantine and certification programs; (iv) quantify the pathogen ...

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The early diagnostic, detection and precise identification of fungal plant pathogens will enable timely and precise applications of fungicides for certain groups of plant pathogens or groups of...

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Pathogens are disease-causing viruses, bacteria, fungi or protists which attack plants as well as animals. Plants have physical and chemical defences against pathogens and herbivores.

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Plant pathogens can be detected by several methods based on totally different strategies: • direct observation of the pathogen in plant tissue or extracts by microscopic techniques; • isolation of the pathogen using young plants, plant parts or specific media; • targeting the antigenic compounds of the pathogen with serological methods; •

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The morphological, biological, biochemical and physiological

characteristics have been used for the detection, identification and differentiation of fungal pathogens up to species level.

Pathogenicity on a set of differential host plant species or crop cultivars has been useful for the identification of physiologic races existing within a morphologic species/variety.

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