

# Disease Management in Cocoa

Comparative epidemiology of witches' broom

Edited by S.A. Redgard, A.C. Maddison and T. Andebrhan



CHAPMAN & HALL



# Disease Management In Cocoa Comparative Epidemiology Of Witches Broom

**Annelies Wilder-Smith**



## **Disease Management In Cocoa Comparative Epidemiology Of Witches Broom:**

**Disease Management in Cocoa** Rudgard, Maddison, Andebrhan, 2012-12-06 The Monograph deals with the conception planning implementation results and conclusions of the International Witches Broom Project IWBP which was set up in 1985 with the aim of producing an economic management system for witches broom disease of cocoa The contributions of the various sponsors and the roles played by the participating organizations and scientists are described in the introductory chapter Chapter 2 provides a review of what was and what was not known from published literature about the cocoa witches broom pathosystem in 1989 The scope of the project and the approaches used are covered in Chapter 3 while Chapters 4 to 13 report on the field studies themselves in detail The recent appearance of witches broom in the important cocoa area of Bahia in Brazil is described in Chapter 14 before disease management recommendations are summarised and future prospects considered in the closing chapters The many man years of field research in the IWBP in a total of six countries generated much useful information which was analyzed both in the individual countries and collectively Even with a document of this size certain information and analyses with less direct relevance to disease management had to be omitted It is expected that more detailed treatments of certain aspects will emerge in scientific papers and further analyses will be undertaken

**Cacao Diseases** Bryan A. Bailey, Lyndel W. Meinhardt, 2016-02-22 This book reviews the current state of knowledge concerning cacao pathogens and methods for their management Topics discussed include the history biology and genetic diversity of *Moniliophthora* species which cause witches broom and frosty pod rot and *Phytophthora* species which cause black pod rot that cause diseases resulting in major losses to cacao production Emerging pathogens such as Cacao swollen shoot virus and *Ceratobasidium theobromae* which causes vascular streak dieback are also discussed in detail along with many pathogens of significant local concern Most of these pathogens represent major risks to global cacao production should they expand into new areas breaking out of their current limited distributions By considering cacao diseases as a group similarities in the available tools and techniques used in their management become apparent as do their limitations Gaps in our current knowledge of cacao pathogens and the management of the diseases they cause are detailed and suggestions for future research directions are provided This insight allows readers to consider cacao disease threats from a more comprehensive global perspective and paves the way for an improved synergy of efforts between the various research programs agencies and industries both private and public with vested interests in cacao production and cacao farmers

**Achieving sustainable cultivation of cocoa** Prof. Pathmanathan Umaharan, 2018-08-09 Strong focus on conserving and exploiting genetic resources for breeding improved varieties Detailed review of specific diseases such as witches broom as well as insect pests and nematodes Covers key aspects of sustainability such as agro forestry organic cultivation and measures to support smallholders

*The Triumph of the Fungi* Nicholas P. Money, 2007 Everyone is aware of the nineteenth century Irish potato famine but fungal diseases of many other crops have had similarly apocalyptic consequences Today

coffee cacao and rubber are threatened by fungi throughout the tropics Indeed fungi have carved their way through the ages attacking every plant that we cultivate constantly exploiting new hosts In *The Triumph of the Fungi* Nicholas Money offers an intimate picture of these pernicious microbes the scientists who have sought to control them and the people directly impacted by the loss of forest trees and cash crops Even with the development of fungicides and other scientific breakthroughs fungi continue to be unstoppable this is the story of their triumph **BOOK JACKET** *Tropical Plant Diseases* H. David Thurston, 1998 This book incorporates several new developments since the publication of the first edition Use this reference as a guide to the identification and control of tropical plant diseases Includes special emphasis on molecular biology genetic engineering and integrated pest management Includes new coverage of Rice Maize Sorghum Root Crops Cassava Sweet Potatoes Legumes Soybeans Peanuts Bananas Coffee Fruit and Nuts Sugarcane Vegetables Cotton Spices Tobacco among others **Abstracts on Tropical Agriculture** ,1994 **The Manufacturing confectioner** ,1993 **COCOA Newsletter** ,1990 **Actas** ,2003 **Ingeniero Agronomo** Del Pozo Najera Paricio Humberto, *Ajuste de Metodologias de Evaluacion Temprana para la Busqueda de Resistencia* , New Zealand Journal of Botany ,2003 **Biotechnology of Fruit and Nut Crops, 2nd Edition** Richard E. Litz, Fernando Pliego-Alfaro, Jose Ignacio Hormaza, 2020-01-29 This book covers the biotechnology of all the major fruit and nut species Since the very successful first edition of this book in 2004 there has been rapid progress for many fruit and nut species in cell culture genomics and genetic transformation especially for citrus and papaya This book covers both these cutting edge technologies and regeneration pathways protoplast culture in vitro mutagenesis ploidy manipulation techniques that have been applied to a wider range of species Three crop species Diospyros kaki persimmon Punica granatum pomegranate and Eriobotrya japonica loquat are included for the first time The chapters are organized by plant family to make it easier to make comparisons and exploitation of work with related species Each chapter discusses the plant family and the related wild species for 38 crop species and has colour illustrations It is essential for scientists and post graduate students who are engaged in the improvement of fruit nut and plantation crops *Fitopatologia brasileira* ,2006 **Books in Print** ,1994 **The British National Bibliography** Arthur James Wells, 1993 *Bibliography of Agriculture with Subject Index* ,1994 *Phytopathological Papers* ,1991 Agrotrópica ,2002 PRD ,1998

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