

Basic Plant Pathology Methods

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Biological Control of Crop Diseases Samuel S. Gnanamanickam 2002-04-03 With contributions from more than 30 internationally renowned experts, this book combines coverage of theory with coverage of global practices. Highlighting the day-to-day challenges of organic crop management for cost-effective real-world application, the book explores the biological control of diseases in 12 major crops. It focuses on the use of host plant resistance through transgenics and induced systemic resistance as a part of biological control. Topics covered include the role of biocontrol agents for signalling resistance, effective ecofriendly alternative to combat bacterial, fungal, and viral infestation, and transgenic crops in disease management.

An Introduction to the Diagnosis of Plant Disease C.W.D. Brathwaite 1984 The diagnoses of plant disease;the microscope;the autoclave;the preparation of media for fungal and bacterial growth ;detection of fungal pathogens in infected plant tissues;detection of bacterial pathogens in infected tissues;koch's postulates;inoculation techniques;the diagnosis of a nematode problem;viruses and plant virus diseases;mycoplasma asagent of plant disease.

Handbook of Phytoalexin Metabolism and Action M Daniel 2017-11-22 Provides the latest information on nearly all of the phytoalexins of crop plants studied worldwide over the past 50 years-describing experimental approaches to the research of specific plants and offering detailed explanations on methods of isolation and characterization. Supplies in-depth coverage of cotton, soybean, groundnut, citrus, mustard, grapevine, potato, pepper, sweet potato, yam, sesame, tea, tobacco, pea, pigeon pea, and many more.

Basic Plant Pathology Methods James B. Sinclair 1995-04-05 The Second Edition of this bestseller brings together basic plant pathology methods published in diverse and often abstract publications. The Second Edition is updated and expanded with numerous new figures, new culture media, and additional methods for working with a greater number of organisms. Methods are easy to use and eliminate the need to seek out original articles. This reference allows for easy identification of methods appropriate for specific problems and facilities. Scientific names of pathogens and some of their hosts are updated in this edition. The book also acts as a research source providing more than 1,800 literature citations. The Second Edition includes chapters on the following: Sterilization of culture apparatus and culture media Culture of pathogens with detailed techniques for 61 fungi and selected bacteria Long-term storage of

plant pathogens Detection and estimation of inoculum for 28 soilborne fungal pathogens and 5 bacterial genera-15 methods for airborne inoculum and 13 methods for seedborne pathogens Establishment of disease and testing for disease resistance Work with soil microorganisms Fungicide evaluation Biological control Bright-field microscopy

Plant Pathology and Plant Diseases Anne Marte Tronsmo 2020-10-12 This textbook provides a comprehensive introduction to all aspects of plant diseases, including pathogens, plant-pathogen interactions, their management, and future perspectives. Plant diseases limit potential crop production and are responsible for considerable losses in agriculture, horticulture and forestry. Our global food production systems are under increasing pressure from global trade, climate change and urbanization. If we could alleviate the losses due to plant diseases, we would be able to produce roughly 20% more food - enough to feed the predicted world population in 2050. Co-authored by a group of international teachers of plant pathology who have collaborated for many years, the book gives expert and seamless coverage. Plant Pathology and Plant Diseases: Addresses major advances in plant-pathogen interactions, classification of plant pathogens, and the methods of managing or controlling disease Is relevant for a global audience; it covers many examples of diseases with an impact worldwide but with an emphasis on disease of particular importance in a temperate context Features over 400 striking figures and colour photographs It is suitable for graduate students and advanced undergraduates studying plant pathology, biology, agriculture and horticulture.

Essential Plant Pathology Gail Lynn Schumann 2010 Provides an explanation of how plant diseases are diagnosed, the 'plant disease triangle', how to determine the cause of a specific disease, what 'biotrophs' and necrotrophs are, disease cycles and how they can be utilized. Specific chapters address plant diseases caused by fungi, bacteria, nematodes, viruses, parasitic flowering plants, abiotic factors of the environment including light, temperature, and atmospheric gases, pathogens, how people influence plant disease epidemics, the prevention or management of plant disease epidemics, and more.

Introduction to Plant Pathology Richard N. Strange 2006-02-08 This invaluable resource introduces the eleven types of organism that cause plant disease, ranging from higher plants to viroids and describes examples of cash and staple crop diseases that have caused human catastrophes. Early chapters cover serological and molecular techniques for the diagnosis of plant pathogens, epidemiology, methods for estimating disease severity and its effect on crop yields and techniques for limiting inoculum. Later chapters are concerned with colonisation of the plant and symptom development and the underlying biochemical and genetic factors that control these events. Finally, the control of plant disease using a variety of techniques including genetic modification is discussed. Modern diagnostic techniques Epidemiology and the measurement of disease severity The biochemistry and molecular biology of plant disease Control through cultural, biological, genetic and molecular techniques A wealth of examples and applications including full colour photographs

Molecular Methods in Plant Pathology U. S. Singh 2017-12-14 Molecular Methods in Plant Pathology covers methods in phytopathology at the molecular level, including PCR techniques, electron microscopy, tissue culturing, and the cloning of disease-resistant genes. Phytopathologists, botanists, horticulturists, and anyone working in agriculture will find this a useful reference on biophysical, biochemical, biomolecular, and biotechnological methods.

The Epidemiology of Plant Diseases B. Michael Cooke 2006-06-18 Plant disease epidemiology is a dynamic science that forms an essential part of the study of plant pathology. This book brings together a team of 35 international experts. Each chapter deals with an essential component of the subject and

allows the reader to fully understand how each exerts its influence on the progress of pathogen populations in plant populations over a defined time scale. This edition has new, revised and updated chapters.

Plant Pathology Nicola Luchi 2022-08-13 This volume covers the latest developments in different areas of plant pathology. The chapters in this volume are organized into seven parts. Part One provides traditional methods for isolation and identification of invasive pathogens and root disease. Part Two looks at new and rapid DNA extraction protocols from different samples, and Part Three focuses on molecular detection protocols for identifying and quantifying plant pathogens, including fungal and bacterial invasive species. Part Four describes the application of metabarcoding in plant pathology, and Part Five talks about plant pathogen interactions. Part Six concentrates on population genomics of plant pathogens, and Part Seven covers biocontrol on plant pathogens. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, *Plant Pathology: Methods and Protocols* is a valuable resource for researchers in the plant pathology community, and discusses various approaches for the detection, identification, and control of plant diseases.

Food Security and Plant Disease Management Ajay Kumar 2020-11-20 *Food Security and Plant Disease Management* offers a comprehensive exploration of biocontrol, the latest technologies being used in plant health assurance, and resulting impacts on crop production and food security. Discussing both theoretical and practical topics, the book examines basic and advanced applications of biosensor and nano-technologies, introduces plant disease, including modes of action and their transmission in host plants, then covers factors contributing to plant disease and various means of addressing those diseases. This volume is part of the *Microorganisms in Agriculture and the Environment* series and provides important information for developing new effective plant protection practices. The direct or indirect applications of beneficial microbes in the treatment of plant disease is termed “microbial control and these methods have increasingly been identified as important options for plant health management. The beneficial microbes as well as recent omic and nano-technologies also reveal important mechanisms that can be utilized in disease management strategies. Explores the impact of climate change on plant diseases and new methods of resolution Includes information on gene expression during crop disease management Presents insights into the legal and commercial aspects of microbial control

Pioneering Women in Plant Pathology Jean Beagle Ristaino 2008 *Pioneering Women in Plant Pathology* is a biographical book on the early women scientists who led the way for others in the field of plant pathology. These untold stories about 27 fascinating women discuss their struggles and triumphs as early women in the science. With contributions from 37 talented writers and more than 130 figures, we are given a true picture of the challenges these women faced on their way to important discoveries. The authors do a wonderful job presenting the scientific achievements of these women in the context of their time. We also get glimpses into the character of these women that show us how their personal attributes and talents helped them achieve great things.

Handbook of Reference Methods for Plant Analysis Yash Kalra 1997-12-29 *The Handbook of Reference Methods for Plant Analysis* is an outstanding resource of plant analysis procedures, outlined in easy-to-follow steps and laboratory-ready for implementation. Plant laboratory preparation methods such as dry ashing and acid and microwave digestion are discussed in detail. Extraction techniques for analysis of readily soluble elements (petiole analysis) and quick test kits for field testing are also presented. This handbook consolidates proven, time tested methods in one convenient source. Plant

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scientists in production agriculture, forestry, horticulture, environmental sciences, and other related disciplines will find the Handbook a standard laboratory reference. The Handbook was written for the Soil and Plant Analysis Council, Inc., of which the editor is a board member. The council aims to promote uniform soil test and plant analysis methods, use, interpretation, and terminology; and to stimulate research on the calibration and use of soil testing and plant analysis. This reference will help readers reach these important goals in their own research.

Emerging Trends in Plant Pathology Krishna P. Singh 2020-12-09 This book offers a comprehensive guide to the identification, detection, characterization, classification and management of plant pathogens and other beneficial microbes in agriculture. The science of plant pathology is a dynamic field and, given the growing interest in sustainable agricultural practices, plant disease management has also gained importance. Further, there has been a shift from traditional chemical-based methods to eco-friendly integrated disease management strategies with a greater focus on bio-control and other eco-friendly technologies. This book provides a comprehensive and timely account of latest concepts and advances in the field of plant pathology, including detection and diagnosis, host resistance, disease forecasting and plant biotechnological approaches. Accordingly, it will be of great interest to academics and all stakeholders working in the fields of plant pathology, microbiology, biotechnology, plant breeding, and other life sciences.

Methods of Bacterial Plant Pathology B. P. Chakravarti 2005 This Book Is Intended As A Reference Book For Practical Classes Of Under Graduate And Post-Graduate Students For Studying Bacterial Diseases Of Plants. It Covers Basic And Applied Aspects Of The Subject.

Laboratory Techniques in Plant Bacteriology Suresh G. Borkar 2017-12-12 Laboratory Techniques in Plant Bacteriology is ideal for scientists and students who seek a career in plant pathogenic bacteria. This book contains 41 chapters comprising practicable techniques from isolation of bacterial plant pathogens to their identification up to species and race/biotype level. It includes identification protocols of morphological, biochemical, immunological, and molecular-based techniques. This book comprises all technological aspects of plant bacteriological studies. Its content is ideal for graduate students and research scholars including bacteriological professionals or technicians. The book ultimately provides working technologies useful for controlling bacterial disease pathogens.

Phytobacteriology J. D. Janse 2006 This comprehensive manual of phytobacteriology is heavily illustrated with over 200 colour photographs and line illustrations. It begins by outlining the history and science of bacteriology and gives an overview of the diversity and versatility of complex bacteria. It then explains the characterization, identification and naming of complex bacteria, and explores how bacteria can cause disease and how plants react to such disease. The book also discusses the economic importance of bacterial diseases as well as strategies for their control and the reduction of crop losses. It concludes with fifty examples of plant pathogenic bacteria and the diseases that they cause.

Diagnosis of Plant Virus Diseases R. E. F. Matthews 2019-07-23 Diagnosis of Plant Virus Diseases presents a comprehensive summary of methods currently available for the diagnosis of plant diseases caused by viruses and viroids. Up-to-date literature references are provided, brief accounts of the basis for particular methods are included, and detailed protocols are presented. Procedures discussed include the use of host plants, electron microscopy of in vitro preparations, serological procedures (especially forms of ELISA, monoclonal antibodies, serological specific electron microscopy, and immunoblotting), and nucleic acid hybridization procedures. Strategies are outlined for implicating virus-like pathogens as causes of diseases of unknown etiology, and problems involved in identifying complexes of transmission-

dependent and helper viruses are discussed. The book will be extremely useful for phytopathologists, plant virologists, and research students and workers in plant virology laboratories and diagnostic plant pathology laboratories.

Molecular Plant Pathology Matthew Dickinson 2004-06-02 Studies of the interactions between plants and their viral, bacterial and fungal pathogens are of major importance in plant and crop production. More than 10% of potential agricultural yield is lost to these organisms annually worldwide, and major epidemics can cause significant local economic and environmental damage. *Molecular Plant Pathology* addresses the underlying molecular principles of plant/pathogen interactions, in a readily-accessible textbook format.

Plant Pathology: Disease Detection and Identification Ian Brock 2019-06-27 Plant pathology is the study of diseases in plants that are caused by pathogens. It encompasses the studies of pathogen identification, disease etiology, plant disease epidemiology, economic impact, etc. Pathogens that cause diseases in plants are fungi, viruses, bacteria, protozoa, etc. Effector proteins, cell wall-degrading enzymes and toxins are the prominent methods of pathogenic infection. Some of the severe plant diseases include citrus canker, rice blast, soybean cyst nematode, etc. This book discusses the fundamentals as well as modern approaches of plant pathology. It strives to provide a fair idea about this discipline and to help develop a better understanding of the latest advances within this field, particularly with respect to disease detection and identification. Students, researchers, experts and all associated with botany and agriculture science will benefit alike from this book.

Introduction to Plant Pathology Richard N. Strange 2003-11-21 This invaluable resource introduces the eleven types of organism that cause plant disease, ranging from higher plants to viroids and describes examples of cash and staple crop diseases that have caused human catastrophes. Early chapters cover serological and molecular techniques for the diagnosis of plant pathogens, epidemiology, methods for estimating disease severity and its effect on crop yields and techniques for limiting inoculum. Later chapters are concerned with colonisation of the plant and symptom development and the underlying biochemical and genetic factors that control these events. Finally, the control of plant disease using a variety of techniques including genetic modification is discussed. Modern diagnostic techniques
Epidemiology and the measurement of disease severity
The biochemistry and molecular biology of plant disease
Control through cultural, biological, genetic and molecular techniques
A wealth of examples and applications including full colour photographs

Molecular Methods in Plant Disease Diagnostics Neil Boonham 2016-04-19 Using molecular methods for plant disease diagnosis provides diagnosticians with a number of advantages over more traditional methods. They can allow the identification of morphologically similar species, for example, or the detection of infection prior to symptom formation. Not only can molecular tools help by increasing the efficacy, accuracy and speed of diagnosis; their common technological basis provides further benefits, especially where resources are limited and traditional skills are hard to sustain. This book provides protocols for nucleic acid-based methods currently applied to plant pathogen detection and identification. It takes the practitioner through the full range of molecular diagnostic and detection methods and, as these generic techniques are appropriate for use on any target with minimal modification, also provides a useful resource for students of plant pathology and plant pathologists. Beginning with the background and future directions of the science, it then addresses DNA barcoding, microarrays, polymerase chain reactions (PCR), quality assurance and more, forming a complete reference on the subject.

Principles of Diagnostic Techniques in Plant Pathology R. T. V. Fox 1993 The correct diagnosis of a plant

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disease is an essential prerequisite of its successful control. Diagnostic methods today include a number of traditional techniques such as direct observation or microscopy, as well as more recently developed procedures such as those based on immunological or nucleic acid analysis. This book provides a text reviewing the principles of all these techniques that will be suitable for advanced students of plant pathology who already have some basic background in the subject. The theories behind the methods are described and illustrated with numerous examples of plant diseases caused by fungi, bacteria and viruses, and the strengths and limitations of different techniques are compared. The book includes a number of color photographs and will provide a very useful overview of this rapidly developing subject.

Plant Fungal Pathogens Melvin Dennis Bolton 2012 Including reproducible laboratory protocols, this guide to fungal pathogens in plants has been written by expert researchers in the field and includes methods now used to study them, including techniques for model systems such as *Arabidopsis thaliana*.

Principles of Plant Pathology M. K. Dasgupta 1988

Plant Pathological Methods John Francis Tuite 1969 Media and nutrient solutions used by plant. Desinfection and sterilization: sterilization of laboratory. Isolation of bacteriophage and plant pathogenic. Diagnosing the causes of plant diseases. Increase of inoculum. Establishment of disease: inoculation, infection. Preservation of microorganisms. Microscopic techniques. Writing for publication.

Comprehensive and Molecular Phytopathology Yuri Dyakov 2007-01-09 This book offers a collection of information on successive steps of molecular 'dialogue' between plants and pathogens. It additionally presents data that reflects intrinsic logic of plant-parasite interactions. New findings discussed include: host and non-host resistance, specific and nonspecific elicitors, elicitors and suppressors, and plant and animal immunity. This book enables the reader to understand how to promote or prevent disease development, and allows them to systematize their own ideas of plant-pathogen interactions. * Offers a more extensive scope of the problem as compared to other books in the market * Presents data to allow consideration of host-parasite relationships in dynamics and reveals interrelations between pathogenicity and resistance factors * Discusses beneficial plant-microbe interactions and practical aspects of molecular investigations of plant-parasite relationships * Compares historical study of common and specific features of plant immunity with animal immunity

Methods in Plant Virology Stephen A. Hill 1984-01-01 Histological and other basic methods; Basic virus characterization and storage; Transmission tests; Serological techniques; Electron microscopy.

Basic Plant Pathology Methods James B. Sinclair 2017-11-22 The Second Edition of this bestseller brings together basic plant pathology methods published in diverse and often abstract publications. The Second Edition is updated and expanded with numerous new figures, new culture media, and additional methods for working with a greater number of organisms. Methods are easy to use and eliminate the need to seek out original articles. This reference allows for easy identification of methods appropriate for specific problems and facilities. Scientific names of pathogens and some of their hosts are updated in this edition. The book also acts as a research source providing more than 1,800 literature citations. The Second Edition includes chapters on the following: Sterilization of culture apparatus and culture media Culture of pathogens with detailed techniques for 61 fungi and selected bacteria Long-term storage of plant pathogens Detection and estimation of inoculum for 28 soilborne fungal pathogens and 5 bacterial genera-15 methods for airborne inoculum and 13 methods for seedborne pathogens Establishment of disease and testing for disease resistance Work with soil microorganisms Fungicide evaluation Biological control Bright-field microscopy

FUNDAMENTALS OF PLANT PATHOLOGY N. G. RAVICHANDRA 2013-04-22 This book is based on the syllabus prescribed by the Indian Council of Agricultural Research, New Delhi, for the first and second year undergraduate students of plant pathology in State Agricultural and Horticultural Universities and hence, is of special importance to these students. The text, conveniently divided into 13 chapters, deals with fundamental aspects of plant pathology viz., scope and objectives, importance of plant diseases, history and development of plant pathology, theory of plant diseases, causes of plant diseases (biotic, abiotic and plant viruses with representative examples) symptoms, general characteristics of plant pathogens, classification of phytopathogens, growth and reproduction of plant pathogens including replication of plant viruses, liberation or dispersal of plant pathogens, their survival and types of parasitism and variability in plant pathogens. At the end of each chapter, important questions have been provided for the benefit of the students. Diagrams, convincing tables and suitable graphs/illustrations are furnished at appropriate places. A complete bibliography and apt subject index are appended at the end. Besides undergraduate students, this book will also serve as a basic guide to meet the requirement of teachers/researchers in plant pathology and related fields.

Illustrated Plant Pathology H. Lewin Devasahayam 2009-01-15 The book which has been brought out as per the syllabus of B.Sc.(Ag.) Degree course of the Agricultural Universities and will be of immense help and guidance to the students and researchers in Agriculture. Numerous illustrations have been given to enable the reader to understand the text easily and to make the study more interesting'

Methods for the Diagnosis of Bacterial Diseases of Plants R. A. Lelliott 1991-01-15 This book gives a comprehensive description of methods for the diagnosis of bacterial diseases of plants, especially those of economic importance throughout the world, and the identification of the bacteria that cause them. The methods are those used by the Agricultural Development and Advisory Service of MAFF and by the National Collection of Plant Pathogenic Bacteria, and have been successfully proved over many years. The authors include descriptions of diseases of the causal bacteria, indicating key diagnostic and identification features known to be of value for accurate diagnosis. The methods are intended for use by microbiologists and plant pathologists anywhere in the world

Experimental Techniques in Plant Disease Epidemiology Jürgen Kranz 2012-12-06 Most books on epidemiology have treated the subject from a statistical, mathematical or computer applicational point of view. However, experiments must be performed first to provide the data for models which in turn can then be proven by further experimentation. This mutual interplay of theory and empirics gives epidemiology its scientific thrust and charm. This book provides a choice of methods for varying applications and objectives, covering all important aspects for the designing of experiments. Furthermore, the reader is supplied with solutions to his experimental problems and many "tricks of the trade". The newcomer to the field will also profit by this methodology guide.

Plant Pathology Robert Burns 2010-10-28 Plant diseases can have an enormous impact on our lives. In a world where total crop failure can quickly lead to human misery and starvation, accurate diagnostics play a key role in keeping plants free from pathogens. In *Plant Pathology: Techniques and Protocols*, expert researchers provide methods which are vital to the diagnosis of plant diseases across the globe, addressing all three categories of plant pathology techniques: traditional, serological, and nucleic acid. Chapters examine recent and developing issues with crop identity and authenticity, allowing workers to genotype samples from two major food groups. Composed in the highly successful *Methods in Molecular Biology*™ series format, each chapter contains a brief introduction, step-by-step methods, a list of

necessary materials, and a Notes section which shares tips on troubleshooting and avoiding known pitfalls. Authoritative and reader-friendly, *Plant Pathology: Techniques and Protocols* is an incredible guide which will soon prove to be indispensable, both to novices and expert researchers alike.

Plant Pathology Christophe Lacomme 2015-05-19 The second edition of *Plant Pathology: Techniques and Protocols* covers diagnostic methods that are currently used in laboratories for a broad range of plant species and matrixes. These include serological and molecular methods that have one or more of the following characteristics: suitability for high-throughput testing, detection of a group of pathogens or of sometimes uncharacterized pathogens, detection and identification of specific pathogens, and high sensitivity. This volume discusses qualitative and quantitative tests, as well as recently developed diagnostic methods. It also provides background information on many pathogens, which are either endemic, non-endemic, or emerging and with different lifecycles that cause diseases of significant importance in a wide variety of hosts. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, background information on pathogens and the disease caused, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls. Informative and cutting-edge, *Plant Pathology: Techniques and Protocols, Second Edition* is the perfect book for plant pathologists and molecular biologists who will use this information to test out the latest research in their laboratories.

Plant Pathologist's Pocketbook J. M. Waller 2002 This essential handbook for student and practicing plant pathologists has been thoroughly reorganized and updated since the publication of the second edition in 1983. The new edition includes: rearrangement of topics to facilitate use; 49 short succinct chapters, each providing valuable practical information; new topics such as landmarks in plant pathology, survey of sampling procedures, disease evaluation, effects of climate change, biochemical and molecular techniques, epidemic modelling, breeding for resistance, laboratory safety and electronic databases; seven overall sections covering disease recognition and evaluation, causation, diagnosis, investigation, control, general techniques, and presentation of results.

A Colour Handbook On Practical Plant Pathology V. K. Yadav 2015-01-01 This Laboratory Manual has been designed for students for easy understanding of basic plant pathological laboratory techniques related with Isolation of pathogen. Preservation of disease sample, Demonstration of Koch's postulates. Study of different groups of fungicides and antibiotics. Preparation of fungicides. Methods of application of fungicides. Bio-assay of fungicides, Bio control of plant pathogens and Identification of some important fungal pathogens. The book is fully colour book with digitized images have been made to identify diseases and pathogens with explanations of new terminologies to enhance students understanding about the subject. The book will be useful to beginners, students, instructors, scientists and research workers in the field of Plant Pathology and Agricultural Microbiology.

Principles of Plant Pathology E. C. H. Stakman 1967

Diagnosis and Identification of Plant Pathogens H.-W. Dehne 2012-12-06 The diagnosis and identification of plant pathogens provides the basis of plant pathology and phytomedicine. The Executive Committee of the EUROPEAN FOUNDATION FOR PLANT PATHOLOGY (EFPP) had no problem to identify this actual topic as topic for the 4th Symposium, which was held from September 8 to the 12th at the University of Bonn. It was suggested to have introductory papers and papers on actual research on recently identified topics. The development of diagnosis and pathogen identification is very important to keep plants healthy and to provide a successful and efficient disease control. On the other hand the most important

task of the EUROPEAN FOUNDATION FOR PLANT PATHOLOGY is to improve the international communication, especially in the European hemisphere. Another important duty is to provide the contact between all associated societies - of specific importance seems to be the contact to societies and colleagues from eastern European countries. Times have changed and gratefully we are obliged to hold the contact to our colleagues from the east. During the last meeting we could hold this contact to a certain extent and this should be a premise for the future. th During 1998 the EUROPEAN FOUNDATION FOR PLANT PATHOLOGY will join the 7 International Congress of Plant Pathology held at Edinburgh from August 9-14, 1998. th The 5 Symposium of the EUROPEAN FOUNDATION FOR PLANT PATHOLOGY will be arranged by our Italian colleagues.