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2014 03 18 Coping with Basil Downy Mildew

Epidemiology Of Basil Downy Mildew

Basil downy mildew (BDM) caused by the
oomycete *Peronospora belbahrii* is a
destructive disease of sweet basil (*Ocimum
basilicum*) worldwide. It has originated in
Uganda in the 1930's and recently...

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(PDF) Epidemiology of Basil Downy Mildew - ResearchGate

Ecology and Epidemiology Epidemiology of Basil Downy Mildew Yigal Cohen,† Yariv Ben Naim, Lidan Falach, and Avia E. Rubin Faculty of Life Sciences, Bar Ilan University, Ramat Gan, Israel ...

Epidemiology of Basil Downy Mildew
View This Abstract Online; Epidemiology of Basil Downy Mildew. Phytopathology. 2017;

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107(10):1149-1160 (ISSN: 0031-949X). Cohen Y; Ben Naim Y; Falach L; Rubin AE

Epidemiology of Basil Downy Mildew.

Along with the increase in commercial and home production, the spread of a disease called basil downy mildew has become a major concern. Basil downy mildew is caused by *Peronospora belbahrii* and can lead to 100 percent crop loss. This disease has spread to about 40 states since first being reported in South Florida in 2007. In Texas, basil downy mildew was first reported in 2010. Many herb

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growers are unaware of the disease and are not taking measures to protect their plants.

Basil Downy Mildew - What are symptoms of basil downy mildew?

First observations of basil and cucumber downy mildews at LIHREC. Onset of downy mildew development at LIHREC is very regular, with first symptoms found between 4 and 19 August since 2009; in contrast, first symptoms of downy mildew were found in cucumber from 17 July to 7 September over the years.

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Basil Downy Mildew - Cornell University
Downy mildew has been reported to also infect several species of the Lamiaceae family including sage, coleus, and basil (Choi et al., 2009; Thines et al., 2009). Rapid sporulation and dissemination of the pathogen can be observed during periods of high humidity, mild temperatures, poor air circulation, and duration of leaf wetness (Garibaldi et al., 2005 , 2007).

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Rapid staining method to detect and identify downy mildew ...

Over the past two decades several downy mildew diseases in medicinal and spice plants have been newly reported and led to economic losses, for example *Peronospora somniferi* on opium poppy (*Papaver somniferum*) (Voglmayretal.2014), *P. belbahrii* on basil (*Ocimum basilicum*) (Thines et al. 2009), and *P. salviae-officinalis* on common sage (Choi et al. 2009).

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Peronospora salviae ...

Downy Mildew The basil Downy Mildew is a fungus type disease and is usually caused by a pathogen known as Peronospora belbahrii. It is introduced mainly through disease borne seeds, infected leaf parts, wind-dispersed spores from another infected basil plant.

Occurrence, Symptoms, and Description of Common Basil Diseases

Both downy mildew and anthracnose appear to be largely affected by humid conditions and free moisture in the form of dew or rain are

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necessary for infection and rainy conditions lead to their epidemic build up. On the contrary, powdery mildew requires relatively dry conditions and moderate temperature.

Epidemiology of Powdery Mildew, Downy Mildew and ...

Handling Basil Downy Mildew Appearance. Basil downy mildew is caused by a pathogen called *Peronospora belbahrii*. Basil that has become infected with... Remove Infected Plants. Once you are certain that your plant has downy mildew, cover the entire plant with a bag

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to... Prevention. Basil downy ...

How to Deal With Basil Downy Mildew - The Spruce

Basil is an economically important herb in the United States and in the world. Recent epidemics of basil downy mildew, caused by *Peronospora belbahrii*, have significantly affected basil production in the United States.

Red Light Increases Suppression of Downy

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Mildew in Basil ...

Downy mildew of basil caused by *Peronospora belbahrii* has been a huge problem for both commercial producers and home growers. The disease was first reported in Italy in 2004, was reported in the U.S. in 2007 and 2008 and has been steadily increasing in prevalence, distribution, and economic importance since then.

Downy mildew - Wikipedia

Downy mildew has become an increasing problem over the last 34 years on a range of -

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outdoor grown herbs, but particularly on sage, mint and parsley. Downy mildew also has more recently become a problem on protected basil in the UK. Some growers whose crops were severely affected by downy mildew on sage in 2009 reported up to 80% of the crop

Project title Outdoor herbs: epidemiology and control of downy

Downy mildew of common sage (*Salvia officinalis*), caused by *Peronospora salviae-officinalis*, has become a serious problem in

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sage production worldwide. The effect of temperature was determined for conidia germination and disease development. In vitro, conidial germination rate was highest at temperatures between 10 °C and 20 °C and was strongly reduced at temperatures above 25, but conidia ...

Epidemiology of sage downy mildew,
Peronospora salviae ...

Basil downy mildew (BDM) caused by the oomycete *Peronospora belbahrii* is currently the most destructive disease of sweet basil

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worldwide [1]. It was first reported in Uganda in 1932 [2], then emerging in Switzerland in 2001 [3], USA in 2009 [4], and in Israel in 2011 [5].

Investigation of Seed transmission in
Peronospora ...

Project title Outdoor herbs: epidemiology and control of downy mildew in outdoor sage, parsley, mint and in basil under protection
Project number: FV 390 Project leader: Kirsty Wright, Stockbridge Technology Centre Report: Final Report 2014 Previous report Annual

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report 2012 Key staff: Dr Martin McPherson,
STC Ms Cathryn Lambourne*

Project title Outdoor herbs: epidemiology and control of ...

Giovanna Gilardi, Stefano Demarchi, Angelo Garibaldi, Maria Lodovica Gullino, Management of downy mildew of sweet basil (*Ocimum basilicum*) caused by *Peronospora belbahrii* by means of resistance inducers, fungicides, biocontrol agents and natural products, *Phytoparasitica*, 10.1007/s12600-012-0264-y, 41, 1, (59-72), (2012).

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First report of *Peronospora* sp. on sweet basil (*Ocimum* ...

Downy mildew is currently the most serious disease of sweet basil around the world. The oomycete causal agent *Peronospora belbahrii* requires ≥ 4 h free leaf moisture for infection and ≥ 7.5 h of water-saturated atmosphere (relative humidity $RH \geq 95\%$) at night for sporulation. We show here that continued nocturnal fanning (wind speed of 0.4–1.5 m/s) from 8pm to 8am dramatically suppressed ...

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Plant pathogens, the causal agent of infectious plant diseases, influence our lives more than just as an economic impact through yield lost. The study of plant pathogens has given rise to the development of new sciences, new technologies for plant breeding, and the agrochemical industry for pesticide developments. Yet, all our actions and efforts to suppress or eradicate them constantly pressures these various organisms to evolve and adapt for survival. Therefore

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today, when facing climate changes, accelerated transport of plants and plant products, and world population growth, we have to ask quo vadis phytopathology. Like Alice in Wonderland “If we wish to go anywhere we must run twice as fast as that” so we need to constantly broaden our knowledge. However, today’s literature abounds with knowledge about plant pathogens. Hence, this book intends to present to the reader all the latest material and knowledge about plant pathogens, changes or refinements in plant disease epidemiology, and new approaches and materials used for plant

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pathogen control. Hopefully, this book will be of interest to those working within the field and looking for an up-to-date introduction. We hope it also interests students and thereby, will influence the future development of phytopathology and our better coexistence with plant pathogens.

This book is an attempt to compile different aspects of citrus pathology to provide an overall knowledge to those who are interested in it, so that they may identify the bottlenecks to improve it further. The book chapters detail about citrus diseases,

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metabolic changes in citrus plants against various stresses, quorum sensing and its role in symptom development, preharvest and postharvest disease management, and application of citrus and its compounds. The goal of this book is to provide the most up-to-date review on information available on pathological aspects of citrus. Therefore, this book will equip academia and industry people with adequate basic knowledge of citrus diseases and management options.

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This broad introduction to the field of mycology explores the more dynamic aspects of the fungi - including their morphology, taxonomy, evolution, physiology, ecology, pathological relationships, and commercial utilization. Provides information on the history of mycology as well as applications of molecular biology techniques for the study of fungi. Also covers the role of fungi in degradation of pesticides, food spoilage, biological control utilizing fungi, and fungi as human allergens.

The fungal genus *Botrytis* is the focus of

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intensive scientific research worldwide. The complex interactions between this pathogen and the plants it infects and the economic importance of the diseases caused by Botrytis (principally grey mould) on more than 1400 species of cultivated plants pre- and post-harvest, render this pathogen of particular interest to farmers, advisers, students and researchers in many fields worldwide. This 20-chapter book is a comprehensive treatise covering the rapidly developing science of Botrytis and reflecting the major developments in studies of this fungus. It will serve as a source of general information

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for specialists in agriculture and horticulture, and also for students and scientists interested in the biology of this fascinating, multifaceted phytopathogenic fungal species.

The book is the result of intensive work of 43 authors, all of them leading scientists in the Botrytis sciences. Each chapter describes a particular aspect of fungal biology and its impact on disease processes and host response. New technologies have arisen that

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when applied to long-standing problems or to test new hypotheses have been most rewarding and many of these are covered in this book. The chapters are cross linked so that readers can follow associated material.

The book reviews key developments in downy mildew research, including the disease, its distribution, symptomatology, host range, yield losses, and disease assessment; the pathogen, its taxonomy, morphology, phylogeny, variability, sporulation, survival and perpetuation, spore germination, infection, pathogenesis, seed infection,

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disease cycle, epidemiology, forecasting, and fine structures. The book also elaborates the mechanisms of host resistance (biochemical, histological, genetic, and molecular, including cloning and the mapping of R-genes), disease resistance breeding strategies, and the genetics of host-parasite interactions. It explores disease management based on cultural, chemical, biological, host resistance, and integrated approaches; and provides suggestions for future research areas. This book offers a comprehensive guide to an economically important disease, reviewing in detail the extant body of

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literature. Divided into 16 chapters, each of which includes a wealth of photographs, graphs, histograms, tables, figures, flow charts, micrographs etc., it represents an invaluable source of information for all researchers, teachers, students, industrialists, farmers, policymakers, and all others who are interested in growing healthy and profitable cruciferous crops all over the world.

The International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), established in 1962, is an intergovernmental

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organization of 13 countries: Albania, Algeria, Egypt, France, Greece, Italy, Lebanon, Malta, Morocco, Portugal, Spain, Tunisia and Turkey. Four institutes (Bari, Italy; Chania, Greece; Montpellier, France; and Zaragoza, Spain) provide postgraduate education at the Master of Science level. CIHEAM promotes research networks on Mediterranean agricultural priorities, supports the organization of specialized education in member countries, holds seminars and workshops bringing together technologists and scientists involved in Mediterranean agriculture and regularly produces diverse

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publications including the series Options Méditerranéennes. Through these activities, CIHEAM promotes North/South dialogue and international co-operation for agricultural development in the Mediterranean region. Over the past decade, the Mediterranean Agronomic Institute of Zaragoza has developed a number of training and research-supporting activities in the field of agroecology and sustainability of agricultural production systems. Some of these activities have been concerned with the rational use of pesticides and more particularly with the implementation of integrated control systems in order to

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gain in efficacy and decrease both the environmental impact and the negative repercussions for the commercialization of agricultural products.

This book deals with the various aspects viz., the disease, geographical distribution, symptoms on different hosts, host range, yield losses, and disease assessment method, while detailed description on pathogen include taxonomic position, phylogeny, variability, sporulation, perpetuation, and spore germination, host-parasite interactions in the form of seed infection, disease cycle,

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process of infection, and pathogenesis, epidemiology, forecasting, fine structures, biochemical changes, and phytotoxins, host defence mechanism, techniques to study host-parasite relationships, and management practices including cultural, chemical, biological control practices, and deployment of host resistance. The last section deals with gaps in our understanding, and knowledge about management of these diseases, techniques for the diagnosis of disease and offer suggestions for future research priorities. Each aspect has been vividly illustrated with photographs, histograms,

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figures, tables, electron micrographs for stimulating, effective and easy reading and understanding. We are sure that this comprehensive encyclopaedic treatise on "Alternaria diseases of crucifers" will be of immense use to the researchers, teachers, students and all others who are interested in the diagnosis and management of Alternaria diseases of crucifers world over. Four species of Alternaria are wide spread and most devastating on cruciferous oil yielding crops, vegetables, forage crops, ornamental plants, and numerous weeds all over the world. The damage to the plants is in the

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form of infections on seed in the soil during sowing, on seedlings during emergence and growth, on stem, leaves, inflorescence, pods and finally to the seed causing yield losses in seed quantity and quality.

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