CABI – Knowledge for Life

Krassimira Anguelova, CABI Regional Manager CEE, CIS, ME
Moscow, 24th November 2009
CABI is a not-for-profit organization specialising in scientific research, publishing and communication.

- We provide applied scientific expertise as well as information to solve problems in public health, agriculture and the environment.
- Established in 1910 by UN.
- 44 member countries.
- Our Database CAB Abstracts is our flagship.
CABI Publishing Products

- **CAB Abstracts** (with Full Text Select Database integrated since Sept. 2008)
- **Global Health** (with Full Text Select Database integrated since Jan. 2009)
- **8 Internet Resources**
- **48 Abstract Journals** (print + online as subset databases)
- **CABI Full Text Databases package**
- **CABI Books**
- **CAB eBooks**
- **5 Compendia** (interactive multimedia scientific encyclopaedia)
CAB Abstracts

Key Facts

- **comprehensive and conclusive** coverage of Applied Life Sciences (5.8 million records)
- essential coverage of *international* and *non-journal* literature
- Over **469,500 new records** in 2008
- Increasing focus on **key topics** (Climate Change, Biofuels, Biodiversity)
CAB Abstracts – Subject Coverage

- Crop sciences
- Crop protection
- Forestry, forest products & agroforestry
- Animal sciences
- Animal health & veterinary medicine
- Agricultural Engineering

- Human Medicine
- Food and Nutrition in Humans
- Economics and Social Sciences
- Leisure and Tourism
- Environmental Science
- Hydrology
- Soil Science
<table>
<thead>
<tr>
<th></th>
<th>CAB Abstracts</th>
<th>Bioasis</th>
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<tbody>
<tr>
<td>Backfile</td>
<td>1973</td>
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<td>Documents From</td>
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<td>90 countries</td>
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CAB Abstracts – Biosis and WoS complementary coverage

The number of serials covered by three key life sciences databases, and the overlap between them

The complete list of serials covered by CAB Abstracts can be found at www.cabi.org/cababstracts
CAB Abstracts Archive

Key Facts

- Entire CAB Abstracts backfile from 1910 – 1972
  1,860,000 records = 600 print volumes = 40 metres of shelving
- Issues of contemporary importance i.e. avian influenza, blue tongue and climate change
- Unique source for hard-to-find research
- Key to evidence-based research and historical context
- Catalogue of international and non-journal material
Global Health Database
“A hot topic on everyone’s lips”

Snapshot

Vital statistics
Subjects covered
Unique Content
Developments in 2009

Trends and hot topics
Global Health

Key Facts

- World’s only dedicated Public Health Database
- Large dataset of 1.4 million records
- Key coverage of topics like H1N1, XDR-TB and Chikungya
- International and multi-disciplinary coverage
- 3000 unique journals not covered by Embase or Medline
- Uniquely positioned tool to respond to increasing Population movement and Global Warming
- Entire Global Health Archive from 1910 – 1983
  800,000 records = 200 print volumes = 20 metres of shelving
Global Health Coverage

**Communicable diseases**
- Bacterial viral and prion diseases
- Nosocomial diseases
- Zoonotic disease
- Bioterrorism
- Travel medicine
- Tropical diseases

**International health**
- Tropical medicine
- Low-income and transitional economy health services
- Maternal and child health
- Women's health
- Sexual and reproductive health
- Refugee health

**Non-communicable diseases**

**Environmental health**

**Public health**
- Community health
- Rural health
- Health education; promotion
- Epidemiology
- Disease prevention
- Public health aspects of disasters
- Public Health policy and planning
- Social medicine and behaviour
- Occupational health

**Traditional medicine**
Coverage – cont.

**Global Health product also includes:** Nutrition, Parasitology, Mycology, Medical entomology and vectorborne diseases - see other sheets

**New areas of coverage:**
Environment – i.e. pollution exposure and monitoring. We are already doing effects of climate and environment on disease epidemiology and risk, natural disaster response.
## Unique Content vs Medline (2004 & 2005)

from S. Glover et al. In *Health Information libraries journal* 2008

<table>
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<th>Term</th>
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<td>Schistosomiasis</td>
<td>778</td>
<td>682 (87.7)</td>
<td>96 (12.3)</td>
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<td>Zoonoses</td>
<td>690</td>
<td>586 (84.9)</td>
<td>104 (15.1)</td>
</tr>
</tbody>
</table>
Serials Comparisons with Embase and Medline

GH vs Embase
3595 titles in GH not in Embase

GH vs Medline
3542 titles in GH which are not on Medline.

GH vs. Embase and Medline
3235 titles unique to GH.

Many of these are ‘agricultural’ or multidisciplinary but about 300 journals are ‘pure medical’.
Global Health Archive
Key Facts

- Entire Global Health backfile from 1910 – 1983
  800,000 records = 300 print volumes = 20 metres of shelving
- Issues of contemporary importance i.e. tropical and communicable diseases
- Unique source for hard-to-find research
- Key to evidence-based research and historical context
- Catalogue of international and non-journal material
CABI Internet Resources

- Subset databases + additional full text content:
  - Agricultural Biotechnology
  - Human Nutrition
  - Animal Health and Production
  - Leisure, Recreation and Tourism
  - Organic Research
  - Forest Science
  - VetMed Resource
  - Environmental Impact

- One-stop shop to all types of CABI resources
CAB Abstracts

Global Health

Database Subsets:
Electronic Abstract Journals

Internet Resources
Environmental Impact
From climate change to biodiversity loss - documenting man's impact

Search

climate change

Could ecosystem services save the Amazon? (Article)
February 2009
Although the idea is not new, a recent report (Keeping the Amazon forest standing: a matter of values) commissioned by the WWF suggests that marketing the ecological services supplied by the Amazonian forest could hold the key for its long-term survival.

A future climate that is beyond anything we have considered (Article)
February 2009
GHG emissions are now far higher than even the worst-case scenario envisaged by IPCC's fourth assessment report published in 2007, according to statement by Christopher Field, a lead author on that report. This statement was delivered at the annual ... Login or subscribe here to view

WWF

WWF www.wwf.org/ Study on climate change scenarios assessment for Ca Mau ProvinceFebruary 20092002 pp.(24.75 MB)
Keeping the Amazon Forests Standing: A Matter of ValuesJanuary 2009Pita Verweij, Marieke Schouten, Pieter van Beukering, Jerome Triana (more)
Welcome to VetMed Resource!
The ideal support for continuing education

With access to over 1 million research records, more than 25,500 full text documents, and 842 datasheets covering diseases and pathogens of animals, VetMed Resource is the most comprehensive source of information on all aspects of veterinary medicine. Explore the site using the tabs below, the left hand menu, or the search function in the top menu bar.

[To Log-in with a Username and Password, use the Log-in link in the top right of this page]

Advances in fowlpox vaccination: a review by M.A. Skinner, S.M. Laidlaw
Fowlpox is a serious viral disease of mature poultry with a significant social or economic impact. Vaccines against the disease were some of the earliest developed for animals. This review covers the latest information on recombinant vaccines being developed to control fowlpox. (see reviews)

Simulation Exercise: Classical Swine Fever in Guatemala (News)
November 2008
A simulation exercise on the eradication of an outbreak of classical swine fever (CSF), including the sanitary measures to be applied, will take place from 19 to 21 November 2008, according to D ... 
Login or subscribe here to view

One Health Commission Holds ‘Groundbreaking Summit’ (News)
November 2009
The newly formed One Health Commission, in partnership with the Institute of Medicine and National Research Council, this week held a summit at the National Academy of Sciences convening leadi ... 
Login or subscribe here to view

Could Dog Fleas Spread Leishmaniasis? (News)
November 2009
Evidence indicates that Leishmania infantum, the causative agent of visceral leishmaniasis in Europe, is transmitted via sandflies, as well as via infected dog fleas. (see reviews)
Welcome to VetMed Resource

VetMed Resource is the ideal support tool for continuing education.

With access to over 1 million research records, more than 13,000 full text documents, and almost 850 datasheets covering diseases and pathogens affecting animals, it represents a single, comprehensive source of information on all aspects of veterinary medicine and animal health.

Explore the site using the tabs below, the left hand menu, or the search function in the top menu bar. This is a new site, and we are constantly developing it, so any feedback is greatly appreciated. vetmed@cabi.org

Canine distemper virus

Canine distemper is viral disease caused by a Morbillivirus (similar to the measles virus – in fact the measles vaccine can protect pups against distemper). The disease can affect all Canidae (dogs, wolves and foxes), as well as Mustelidae (such as ferrets, mink, and skunk), most Procyonidae (including raccoons), and some Viveridae. It is highly infectious in dogs and other susceptible species...

(For more information on canine distemper)

Pups should be vaccinated against distemper.
Books and Reference Works

- Approximately 65 new titles each year
- Over 700 titles in back-list
- CABI Publishing Online Bookshop
- Selected titles available to read online before you buy via the Reading Room
- CAB eBooks Platform Launched February 2008
CAB eBooks

Key Facts


- Subject coverage and metadata fully complementary to CAB Abstracts – key access point

- Over **280** titles and **3,000** records (front file); over **240** titles (over **4,000** chapters in back list)

- Unprecedented **granularity**; all titles indexed and available as chapters, resp. fully searchable

- E-books displayed as a PDF
Subject Collections

CAB e-books Archive

CAB e-books Full Front File Collection

Static Back File

Dynamic Front Files

Agriculture
- Agricultural Eng
- Applied Economics
- Animal Nutrition
- Animal Prod and Genetics
- Animal Science
- Animal Welfare
- Biotechnology, Plant Breeding and Gen Crop Science
- Horticultural Science
- Organic Agriculture and Sustainable Agriculture
- Plant Protection
- Veterinary Science

Animal & Vet Science
- Equine Science
- Animal Production and Genetics
- Parasitology and Infectious Diseases
- Aquaculture & Fisheries
- Veterinary Science
- Entomology

Env. Science
- Conservation
- Organic Farming & Sustainable Agriculture
- Forestry
- Soil Science
- Biodiversity
- Ecology
- Soil Science and Hydrology
- Environment

Human & Food Sci
- Human Nutrition & Food Science
- Public Health and Communicable Diseases

Leisure & Tourism
- Leisure & Recreation
- Tourism

Plant Sciences
- Biotechnology, Breeding & Genetic Resources
- Forestry
- Crop Protection
- Horticulture
- Crop Science & Plant Biology
- Organic Farming & Sustainable Agriculture
CABI Compendia

- Encyclopaedic reference works
- Problem solving tools
- Mixed media
- Facts, Figures, Maps, Pictures, etc.
- CD-ROM and Internet
  - Animal Health & Production Compendium
  - Forestry Compendium
  - Crop Protection Compendium
  - Aquaculture Compendium
  - Invasive Species Compendium
The 2005 Edition of the Crop Protection Compendium is launched...

Interactive glossary.
Results of a search - Datasheets

Aquaculture Compendium

Scientific Name
Cyprinus carpio Linnaeus, 1758

Overview
The total production of common carp was 2,910,000 t in 2001, which represents 12% of the total freshwater fish production. The main carp producing areas are Asia and Europe (91.5% and 5.0% of the t... [continued]

Growout Management
Click here for further information

Disease/s
- Acanthocephalan infections of fish
- Aeromonas infection in fish
- apicomplexan infections of fish
- columnaris disease
- cryptobia [more...]

Related Library Documents
Click here for further information

Case Studies
- Aquaculture for an ethnic minority in the Terai of Nepal
- Aquaculture systems in Hanoi, Vietnam
- Carp polyculture in ponds in greater Mymensingh, Bangladesh [more...]
Distribution and Image Bank

![Distribution Map of Cyprinus carpio](image)

- **Wild Distribution:**
  - Green square = Native
  - Blue square = Exotic

- **Cultured Distribution:**
  - Red circle = Present
  - Blue circle = Widespread
  - Yellow circle = Localised

---

**Aquaculture Production of Common Carp by Continents in 2004**

- Total Production: 2,849,492 tons
  - **Asia:** 91.5%
  - **Europe:** 5.0%
  - **S. America:** 2.3%
  - **Africa:** 0.8%
  - **N. America:** 0.4%
  - **Oceania:** 0.0%

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**Welcome to FAO 1998 International introductions of inland aquatic species. FAO Fisheries Technical Paper, No. 294:x + 316 pp.**

A total of 1034 introductions of 207 species of fish into 143 countries are analysed in the form of an alphabetical register. Trends, risks, evaluation of, and motives for introductions are discussed.

**Source:** CAB ABSTRACTS

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**Click for distribution list**

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- **Click to a picture to see the caption.**
- **Click on a picture to view it full-size.**
Other Datasheet types

Ecosystems
Production systems..
Library of Key Materials

Aquaculture Compendium

Collapse Tree

- Behaviour
  - Behaviour of particular cultivated species
- Feeding behaviour
  - Related Library Documents
    - A guide to shrimp and prawn culture in Bangladesh
    - Baor poster booklet No. 2: baor biology
    - Feeding tilapia in intensive recirculating systems
    - Fish culture booklet No. 1: pond biology
    - Fish culture booklet No. 3: pond stocking
    - Fish culture for fish farmers
    - MAEP fish farmers' manuals: fish production in ponds
    - Seed production and culture techniques of genetically improved species
    - Technical manual on carp culture
    - Technical manual on fish culture in seasonal ponds
    - Technical manual on prawn-carp polyculture

- Environmental requirements
  - Climatic requirements of particular cultivated species
- Related Library Documents
  - An introduction to water chemistry in freshwater aquaculture
  - Aquatic weed management. Herbicide safety, technology and applications
  - Baor poster booklet No. 2: baor biology
  - Water quality requirements of particular cultivated species
- Genetics

Baor poster booklet No. 2: baor biology
PIU, DTA, BRAC
1997 18pp
Language: Bangla
Added: 2/8/2006 3:13:00 PM
Publisher/organisation: PIU (Danida Project Implementation Unit, Bangladesh)
Other publishers/organisations: DANIDA Technical Assistance, Bangladesh • BRAC (Bangladesh Rural Advancement Committee) • DANIDA (Danish International Development Agency)
Download: 1.954KB


Description:
Describes the biology of the baor and the species that can be stocked, also includes the feeding preferences of the species and how to check water quality. Combines all Bangla version in colour and an English version in black and white.

Context:
Countries: Bangladesh
Cultured species: Hypophthalmichthys molitrix • Catla catla • Ctenopharyngodon idella • Labeo rohita • Cyprinus carpio • Cirrhinus orbiculus
Issues: Environmental requirements • Feeding behaviour • Nutrition • Natural food sources • Growout management • Water sources and irrigation • Monoculture/polyculture • Extension materials
Case Studies: Culture-based fisheries - oxbow lakes
Ecosystems: Lakes
Library of Key Materials

Atlantic Salmon, *Salmo salar*

Trond Stonebakken
MNIFOR, Institute of Aquaculture Research AG, N-1432
Sunnialta, Norway

Introduction

Farming of Atlantic salmon (*Salmo salar*) began in Norway in the late 1950s. During the 1960s and 1970s, the production spread, mainly to other north-western European countries and to Chile. In 1990 annual world production was less than 10,000 t and this increased to 850,000 t whole fish produced in 2000. It is projected to approach 2 million t in 2010.

The growth rate of fish in the farms is continuously improving due to genetic selection, improved diets and feeding and improved management. The improvement in growth attributed to genetic selection can be as much as 15–20% per generation if the parents are from a combined family–phenotype selection programme (Skjerven, 1983). Recent Canadian results have shown that the overall productivity of the fish is about 90% of the yield achieved by a combined family–phenotype selection programme.

Superior activity in males is often associated with a higher proportion of males in the natural population, mainly due to natural selection or transgenic selection success. This has resulted in improved growth rates and changes in the size of the fish. An economical feed of less than 2 kg of feed per kg of weight gain is now a reality, and the age at market is at least 1.5 years in the wild. Atlantic salmon and other species of salmon are now being farmed in an environmentally friendly way, allowing them to achieve their full potential.

An important factor in the development and growth of the salmon industry is developing the ability to handle water, the salmon also require a suitable habitat for aquaculture.

VỊ TRÍ BẢO AO NHƯ THẾ NÀO LÀ TỐT?

- Gắn nguồn nước để để cắp và thoát cho ao
- Gắn nhà để chứa nước, bão vê
Linking Theory and Practice
Case Studies

Aquaculture Compendium

Selected sections for: Carp polyculture in ponds in greater Mymensing, Bangladesh

Name
Carp polyculture in ponds in greater Mymensing, Bangladesh

Title: Staff of MAEP project

caption: The staff of the MAEP project at a major carp polyculture smallholder.

Copyright: Luke A. Colville

Summary
The greater Mymensing area comprises seven districts and a population of over 17 million. The Aquaculture Extension Project (MAEP), implemented jointly with the Department of Disaster Management, targeted at the poorest households. The MAEP played a key role in initiating improved carp polyculture through the development of hatchery-reared fingerlings for the project. In the Mymensing area, over 1.4 million households depend on carp polyculture. The project increased the productivity of carp polyculture from 4.4 million kg in 2003 to 9.1 million kg in 2005, resulting in an annual increase in revenue of USD 20.3 million. Over 80% of the households in Mymensing, which has less than 1.5% of the nation's population. The average rate of return is 1.27%. The MAEP has had a profound impact in improving the lives of the rural poor.

Title: Women's group

caption: A women's group that trained to weave harvesting nets as an income-generating activity.

Copyright: Luke A. Colville

Background
Bangladesh is formed by the fertile Ganges-Brahmaputra delta, which provides rich resources for fish production. The vast alluvial river systems and water bodies make it well suited to carp polyculture production in small ponds. Most households in rural Bangladesh have 10-50 decimeters (decimetre) of a local unit of area measurement equivalent to approximately 40 m². 1 ha = 247 decimeters formed from household ponds. Even such small ponds are in most cases in Bangladesh retain water for most of the year. Bangladesh has a total of 5.6 million ha. 8 million ha of Bangladesh's land area is 14.4 million ha is under water. Farmers build aquaculture ponds for use during monsoon floods.

Over the past 10 years a broad range of social, economic, and political changes has taken place in Bangladesh that has affected the system. Fisheries have declined dramatically due to large infrastructure projects that have diverted and isolated water bodies. Climate diversions in India and Bangladesh for agriculture, increased national control of water resources, increased pollution and environmen

Cultured Species

- Amblypharyngodon mola
- Aristichthys nobilis
- Barbonymus gonionotus
- Catla catla
- Clarias batrachus
- Cirrhinus mrigala
- Channa punctatus
- Ctenopharyngodon idella
- Cyprinus carpio
- Esox masou
- Hypophthalmichthys molitrix
- Labeo rohita
- Macrolepidotus macrolepidotus
- Osteochilus vittatus
- Oreochromis mossambicus
- Oreochromis niloticus
- Pangasius hypophthalmus
- Puntius

Countries

Asia
Bangladesh

Ecosystems

- Floodplains
CABI Full Text Databases Package

Key Facts

- **CAB Reviews**
  CABI published, authoritative scientific Reviews in core areas
  (100 p/a)
- **DMPP, DMPD and DFB**
  Essential reference tools for applied life science professionals
- **CAB Reviews Archive**
  Historic collection of 2,800 CAB Reviews from 1930 - 2003
Customer relationship development in 2009

- Databases – ongoing developments
- A new version of our database platforms
  - CAB Direct 2, CIPP, etc.
- New area CABI eLearning
### Broader local scientific research

- **CAB Direct**: 8.4 million
- **Current indexed serials**:
  - CAB Abstracts: 7067
  - Global Health: 5833
- **371 new serials indexed in 2008**
- **136 new serials so far in 2009**

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<td>Journals</td>
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<td>Conferences</td>
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<tr>
<td>Grey literature</td>
<td>6%</td>
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<tr>
<td>Books</td>
<td>2%</td>
</tr>
<tr>
<td>Others</td>
<td>2%</td>
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**Serials indexed from 116 countries**
- In over 60 languages
- 37% non-English
- English abstract provided for most
Analysis of user needs

www.netvibes.com/cabialerts

CABI swine flu dashboard

Geophagy – eating soil for healing or health supplementation - 3 days ago
As I screened a journal called Elements for the CABI Abstracts database the other day, I came...

Bonn Climate Change talks – 1-12 June 2009 - 6 days ago
The negotiations bring together over 4,000 participants from 192 countries, including government...

5th June - World Environment Day - 1 week ago
Photo by C. Asen World Environment Day (WED) was established by the UN General Assembly in 1972 to...

Forget the seven deadly sins for a minute and let’s reflect on the seven year plans - 1 week ago
What religious/faith groups say or do not say about climate change, and how they address climate...

Swine influenza virus - nematode relationships. | Lyerla, H. C. ... Abstract: Abstract Not Available

Isolation of H3N2 swine influenza virus in South Korea. | Song ... Abstract: Swine influenza is a significant respiratory disease causing occasional reproductive...

Antigenic drift in swine influenza H3 haemagglutinins with ... Abstract: Swine influenza A(H3N2) virus strains from outbreaks of respiratory disease in finishing...

Isolation and identification of swine influenza recombinant A ... Abstract: 10 influenza virus isolates were obtained from infected pigs showing influenza-like...
CABI Full Text - surpassed 65,000 records in 2009!

- 65,850 records at the moment and another 10,000 to come by year end
- Roughly 50% Journal, 50% Conference papers
- Full Text journals – 308
- Full Text conferences – 395
- Journals from 56 countries
- Over 75% of journals NOT available for free on web
- CABI Full Text free to any CABI Database customer, any platform
CAB Direct (2) –
“Gateway to the world's applied life sciences”

www.cabdirect2.org

- A new and very much improved version of our database platform
- Providing access to our leading bibliographic databases CAB Abstracts and Global Health
CAB Direct - evolving for changing user needs

- **MyCABDirect** – a personalised area where users can set-up email alerts and RSS feeds based on their search results; share information; and save important searches

- **Faceted searching and refining** – based on CABI's Thesaurus and metadata

- “Did you mean” suggestions for spelling variations based on preferred terms in CABI Thesaurus

- Improved user experience, through a more **intuitive interface**

- Incorporates our latest **Thesaurus (2009)**

- **Institutional branding** on home page
Gateway to the world's applied life sciences

Search

enter search terms

Advanced search

Inform

Behind this platform sits and exceptional team of experts. Our subject specialists are passionate about their life science subjects. They keep up-to-date on the latest research, review news articles and blogs on topical subjects, and ensure even the most hard-to-find material makes its way onto our database. Our product development and IT teams are passionate about information delivery. They work hard to ensure our information is as accessible as possible, on platforms that are easy and interesting to use.

What is happening at CABI (CABI eZone)
- Hand picked and carefully sorted (CABI Direct)
- CABI and Sanmelina teams up to deliver new CABI Direct (press release)

Guide

Visit our user guide pages for training and tips on how to use our new CABI Direct platform. If you still have questions, our dedicated training manager Chris is always ready to help at trainer@cabi.org

About CABI Direct
- No. of records: 8,468,848
- Last Update: June 8 2009
- Over 8 million bibliographic and full text applied life science articles hand picked by our team of experts and updated weekly.

Featured
- In addition to our database, CABI produces a number of unique resources, take a look:
  - CABI eBooks
  - Internet Resources
  - Camperilla
  - Full text products
CAB Direct 2 – Improved access to full text

- **Abstract snippets** at Search Results level
- **Linking to full text** at the search results level
- Ability to **filter results** based on different criteria
- Onward **linking to other related Internet content** at Abstract level for information discovery
- **Social bookmarking**
Faceted refine, clusters results based on our indexing terms

Filter based on CABI Full Text you subscribe to

Output options

Abstract snippets

Link to full text

Related searches based on CABI preferred terms & “Did you mean” spelling suggestions
Indexing terms, hyperlinked to locate similar records

Institutional linking

Options for other Internet content for information Discovery and social bookmarking
CAB Direct 2 – MyCABDirect personalization feature

- Recent = search session searches & Saved searches, personal to each MyCABDirect user
- User identity
- Saved Marked records
- Create an RSS feed from your search
- Combine searches
- Save or delete search
CAB Direct

Enhanced access to Full Text:

- Addition of 1.4 million DOI’s, 460,000 to our Archive file all the way back to 1914
Abstract.

The assumption that, because the onion mildew fungus, *Peronospora schoenii* (formerly *P. destructor*) Unger produces its sexual organs in the leaves of the host plant, it is dependent on its asexual sporulation from year to year, is shown by the author to be erroneous, as the non-septate mycelium is capable of a perennial existence in the bulbs, and the shoots produced thereafter carry infection to the bulbs. It was found impossible to induce the fungus to fruit on the scales of infected bulbs examined, or to grow on artificial media. The whole structure of the mycelium is plainly visible without staining, the hyphae being stout and well differentiated from the cells of the host plant, into some of which large concholized haustoria extend. Where green leaves were present, the mycelium could be traced from the bulb to the apical portion of the leaf in which characteristic haustoria were being produced. In one particular plot, badly mildewed in 1921, almost 60 per cent. of the smaller-sized onions contained non-septate mycelium, and such infected bulbs sprouted prematurely, but the forming stage of the fungus was not reached in the greenhouse under winter conditions, though the mycelium grew up with some of the shoots.

Further proof of the relationship of this fungus to *P. schoenii* was obtained in an experiment in which bulbs of Allium cepa and of *A. sebacum* containing non-septate mycelium were grown in the early spring under conditions excluding external infection. In contrast to numerous control plants, which were originally free from mycelium and remained free from mildew in spite of lengthy exposure to conditions favourable to infection, the diseased plants, placed under a belljar for one night, were found almost totally covered with mildew the next day. Occasionally shoots, replacing the originally infected leaves which had been cut away before mildew became apparent, were found to be permeated with the mycelium and again developed mildew under favourable conditions. Non-septate mycelium has been observed in the bulbs of the common onion, the shallot, and the potato (or underground) onion, its connexion with the mildew fungus being definitely established.
Access
To read this article in full you may need to log in, make a payment or gain access through a site license (see right).

Article
Nature 108, 364 (3 November 1921) | doi:10.1038/108364a0;

The Presence of Perennial Mycelium in Peronospora Schleideni, Unger
PAUL A. MURPHY

The presence of non-septate mycelium permeating the bulbs - top of the potato- and common onion, sent in* from several parts of Ireland in the late spring of 1920, first directed attention to the subject. All attempts to induce this fungus to fruit on the bulb-scales, to infect other onions, or to grow on artificial media, met with failure.

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CAB Thesaurus – 2009 – open access

- 2009 Update released in October 2008
- Now being used for indexing
- On CD2 at launch and our database host partners
- 95,837 terms (up by 32,885)
- 63,954 preferred terms (up by 14,307)
- 32,243 non-preferred terms (up by 18,938)
- Major updates of viruses and bacteria
CAB Thesaurus
On CAB Direct and as stand alone via www.cabi.org/cabthesaurus
Other Initiatives of CABI

- Google Project
  - Some abstracts available via Google
  - gain a better understanding of the needs of our customers

- CABI Blog

- Ezine – quarterly newsletter

- My Librarians site
CABI
Marketing and Promotion

- Catalogues
- Key Searches
- User Guides
Thank you!

Any questions or comments, very happy to hear from you!

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