



THIS PAGE IS SECURE

Home / Persoonia - Molecular Phylogeny and Evolution of Fungi, Volume 28, June 2012



# *Plectosphaerella* species associated with root and collar rots of horticultural crops in southern Italy

Download Article:



**Download**  
(PDF 1,718.2 kb)

**Authors:** Carlucci, A.; Raimondo, M.L.; Santos, J.; Phillips, A.J.L.

**Source:** Persoonia - Molecular Phylogeny and Evolution of Fungi, Volume 28, June 2012, pp. 34-48(15)

**Publisher:** Naturalis Biodiversity Center

**DOI:** <https://doi.org/10.3767/003158512X638251>



previous article



view table of contents

next article



ADD TO FAVOURITES

...  
**Abstract**

References

Citations

Supplementary Data

Article Media

Metrics

Suggestions

*Plectosphaerella cucumerina*, most frequently encountered in its *Plectosporium* state, is well known as a pathogen of several plant species causing fruit, root and collar rot, and collapse. It is considered to pose a serious threat to melon (*Cucumis melo*) production in Italy. In the present study, an intensive sampling of diseased cucurbits as well as tomato and bell pepper was done and the fungal pathogens present on them were isolated. Phylogenetic relationships of the isolates were determined through a study of ribosomal RNA gene sequences (ITS cluster and D1/D2 domain of the 28S rRNA gene). Combining morphological, culture and molecular data, six species were distinguished. One of these (*Pa. cucumerina*) is already known. Four new species are described as *Plectosphaerella citrullae*, *Pa. pauciseptata*, *Pa. plurivora* and *Pa. ramiseptata*. *Acremonium cucurbitacearum* is shown to be a synonym of *Nodulisporium melonis* and is transferred to *Plectosphaerella* as *Plectosphaerella melonis* comb. nov. A further three known species of *Plectosporium* are recombined in *Plectosphaerella*.

**Keywords:** D1/D2; ITS LSU; PHYLOGENY; PLECTOSPORIUM; RDNA; SYSTEMATICS; TAXONOMY

**Document Type:** Research Article

Publication date: 2012年6月30日

[More about this publication?](#)

## We recommend

*Plectosphaerella* species associated with root and collar rots of horticultural crops in southern Italy

A. Carlucci et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

Symptomatic Citrus trees reveal a new pathogenic lineage in *Fusarium* and two new *Neocosmospora* species

M. Sandoval-Denis et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

High species diversity in *Colletotrichum* associated with citrus diseases in Europe

Guamaccia et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

Phytophthora multivora sp. nov., a new species recovered from declining Eucalyptus, Banksia, Agonis and other plant species in Western Australia  
P.M. Scott et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

Molecular systematics of the cotton root rot pathogen, Phymatotrichopsis omnivora  
S.M. Marek et al., Persoonia - Molecular Phylogeny and Evolution of Fungi

Sequential treatment with afatinib and osimertinib in patients with EGFR mutation-positive non-small-cell lung cancer: an observational study [↗](#)  
Maximilian J Hochmair, Future Oncology

Research altered the scientific understanding of the transmission routes of fungal viruses by revealing them to be unfaithful to their host [↗](#)  
Natural Resources Institute Finland, ScienceDaily

Scientists Identify Genes Responsible For 'Black Rot' Disease In Vegetables [↗](#)  
Cold Spring Harbor Laboratory, ScienceDaily

A role for jasmonate in pathogen defense of Arabidopsis [↗](#)  
Perumal Vijayan\* et al., Proc Natl Acad Sci U S A

Community-acquired pneumonia through Enterobacteriaceae and Pseudomonas aeruginosa: Diagnosis, incidence and predictors. [↗](#)  
H von Baum et al., European Respiratory Journal

Share Content

- Access Key
- Free content
  - Partial Free content
  - New content
  - Open access content
  - Partial Open access content
  - Subscribed content
  - Partial Subscribed content
  - Free trial content

<i>Browse by</i> Publication
<i>Browse by</i> Subject
<i>Browse by</i> Publisher
Advanced Search
About us
Researchers
Librarians
Publishers
New featured titles
Help
Contact us



ingenta

COUNTER  
CONSISTENT CREDIBLE COMPARABLE

Website © 2018 Ingenta. Article copyright remains with the publisher, society or author(s) as specified within the article.

[Terms and Conditions](#)

[Privacy](#)

[Information for Advertisers](#)

[Cookie Policy](#)