

1. PaDIL Species Factsheet



Scientific Name:

Athelia rolfsii (Curzi) C.C. Tu & Kimbr.

(Basidiomycota: Agaricomycetes: Atheliales: Atheliaceae)

Common Name

Athelia rolfsii

Live link: <http://www.padil.gov.au:80/maf-border/Pest/Main/142993>

Image Library

New Zealand Biosecurity

Live link: <http://www.padil.gov.au:80/maf-border/>

Partners for New Zealand Biosecurity image library



Landcare Research — Manaaki Whenua
<http://www.landcareresearch.co.nz/>



MPI (Ministry for Primary Industries)
<http://www.biosecurity.govt.nz/>

2. Species Information

2.1. Details

Specimen Contact: Eric McKenzie - mckenziee@landcareresearch.co.nz

Author: McKenzie, E.

Citation: McKenzie, E. (2013) *Athelia rolfsii* (*Athelia rolfsii*) Updated on 3/19/2014 Available online: PaDIL - <http://www.padil.gov.au>

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2.2. URL

Live link: <http://www.padil.gov.au:80/maf-border/Pest/Main/142993>

2.3. Facets

Commodity Overview: Field Crops and Pastures

Commodity Type: Apiaceous produce, Cucurbitaceous produce, Fabaceous produce, Nuts, Sweet Potato, Taro leaves, Taro tubers, Tomato, Tamarillo & Egg plant, Yam

Distribution: Oceania

Groups: Fungi & Mushrooms

Host Family: Amaranthaceae, Apiaceae, Araceae, Convolvulaceae, Cucurbitaceae, Dioscoreaceae, Fabaceae, Solanaceae

Pest Status: 1 NZ - Non-regulated species

Status: NZ - Exotic

2.4. Other Names

Corticium rolfsii Curzi

Sclerotium rolfsii Sacc.

2.5. Diagnostic Notes

****Disease****

Stem rot, foot rot, crown rot, blight. Infection commonly commences at about soil level and extends a few cm above and below. Infected plants often wilt and drop their leaves. Under moist conditions fans of white mycelium spread up the stem and over any organic matter on the soil near the stem. Reddish brown sclerotia, 1–2 mm diam. may be seen amongst superficial mycelium on the base of the plant or on plant tissues immediately below soil level.

****Morphology****

Hyphae may have clamp connections. _Sclerotia_ nearly globose, 0.5–1.5 mm diam., single or in groups, smooth, initially whitish, becoming yellowish white, when dry dark brown or reddish brown and appearing like small seeds of mustard. On agar plates the sclerotia often form at the edge of the plate.

2.6. References

- Gerlach, W.W.P. (1988). _Plant Diseases of Western Samoa_. Samoan German Crop Protection Project, Apia, Western Samoa, pp. 150–151, 170–171, 188–189. - Mordue, J.E.M. (1974). _Corticium rolfsii_. CMI Descriptions of Pathogenic Fungi and Bacteria 410_, 1–2.

3. Diagnostic Images



Athelia rolfsii colony growing on agar plate
Fungal Colony: Howard F. Schwartz
Colorado State University



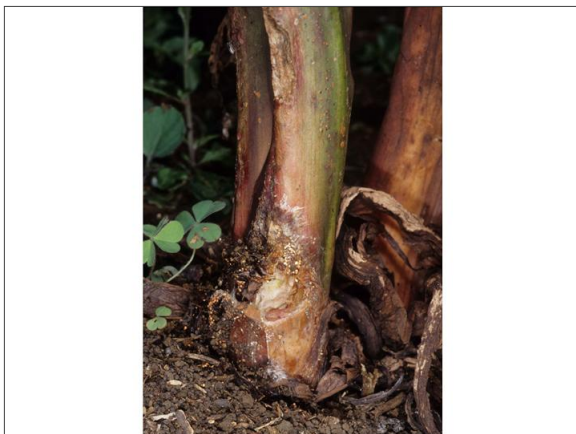
Mycelium of Athelia rolfsii growing over soil
from base of groundnut plants (*Arachis
hypogaea*)
In Life: E. McKenzie Landcare Research



Mycelium of Athelia rolfsii at base of pepper
plant (*Capsicum annuum*). Plants have shed
leaves because of dual infection by the
bacterium *Ralstonia solanacearum*.
In Life: E. McKenzie Landcare Research



Mycelium of Athelia rolfsii at base of pepper
plant (*Capsicum annuum*). Plants have shed
leaves because of dual infection by the
bacterium *Ralstonia solanacearum*.
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of Athelia rolfsii on
base of taro plant (*Colocasia esculenta*).
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of Athelia rolfsii on
melon fruit (*Cucumis melo*).
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of *Athelia rolfsii* on sweet potato vines (*Ipomoea batatas*).
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of *Athelia rolfsii* on sweet potato vines (*Ipomoea batatas*).
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of *Athelia rolfsii* on sweet potato vines (*Ipomoea batatas*).
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of *Athelia rolfsii* on sweet potato vines (*Ipomoea batatas*).
In Life: E. McKenzie Landcare Research



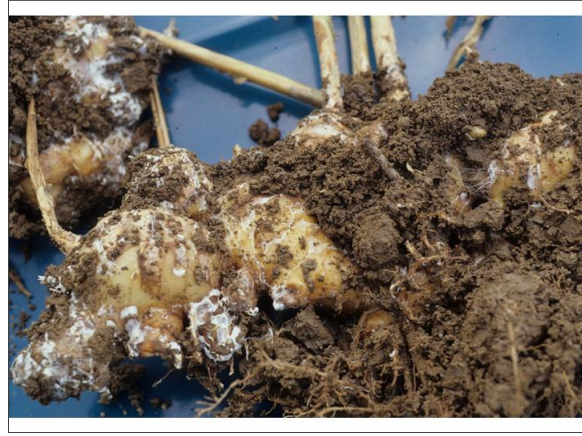
Mycelium and sclerotia of *Athelia rolfsii* on tomato fruit (*Lycopersicon esculentum*).
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of *Athelia rolfsii* on tomato fruit (*Lycopersicon esculentum*).
In Life: E. McKenzie Landcare Research



Mycelium and sclerotia of *Athelia rolfsii* on base of eggplant (*Solanum melongena*).
In Life: David B. Langston University of Georgia



Athelia rolfsii on ginger (*Zingiber officinale*).
In Life: E. McKenzie Landcare Research

Results Generated:

Friday, February 21, 2020
