

1. PaDIL Species Factsheet



Scientific Name:

Restiosporium spathacei Vánky, R.G. Shivas & C. Vánky

Basidiomycota, Ustilaginomycetes, Ustilaginales, Ustilaginaceae

Common Name

Dapsilanthus Smut

Live link: <http://www.padil.gov.au:80/aus-smuts/Pest/Main/140103>

Image Library

Smut Fungi of Australia

Live link: <http://www.padil.gov.au:80/aus-smuts/>

Partners for Smut Fungi of Australia image library



Agri-Science Queensland, DEEDI

<http://www.deedi.qld.gov.au>

2. Species Information

2.1. Details

Specimen Contact: Roger Shivas - roger.shivas@deedi.qld.gov.au

Author: Roger Shivas

Citation: Roger Shivas (2010) *Dapsilanthus Smut (Restiosporium spathacei)* Updated on 12/7/2010 Available online: PaDIL - <http://www.padil.gov.au>

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2.2. URL

Live link: <http://www.padil.gov.au:80/aus-smuts/Pest/Main/140103>

2.3. Facets

Columella: absent

Distribution: QLD

Host Family: Restionaceae

Peridium: absent

Sorus position: inflorescence

Sorus shape: globose to short cylindrical, irregular (includes naked sori)

Spore balls: present

Spore mass texture: granular, powdery

Spore shape: globose or subglobose, irregular, ovoid to ellipsoidal

Spore surface ornamentation: smooth

Status: Native Australian Species

Sterile cells: absent

2.4. Diagnostic Notes

****Sori**** in the nuts, ovoid with an acute tip, c. 1 mm long and 0.5 mm wide, replacing the seeds with a black granular-powdery mass of spore balls. The fungus induces transvestism in the host.

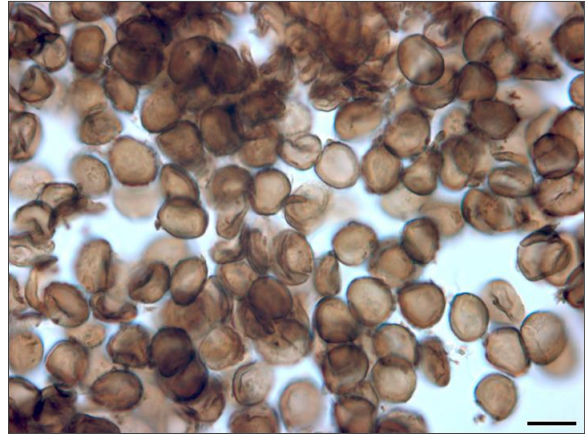
****Spore balls**** globose, subglobose to ellipsoidal or slightly irregular, 30–70 × 20–50 µm, dark olivaceous brown, composed of 10–30 (or more?) readily separating spores.

****Spores**** subglobose, ellipsoidal or somewhat irregular, with 1 or 2 slightly flattened sides, 11–16 × 8–13 µm, yellowish to olivaceous brown; wall uniformly 0.5–0.8 µm thick, smooth; free surface very finely verruculose.

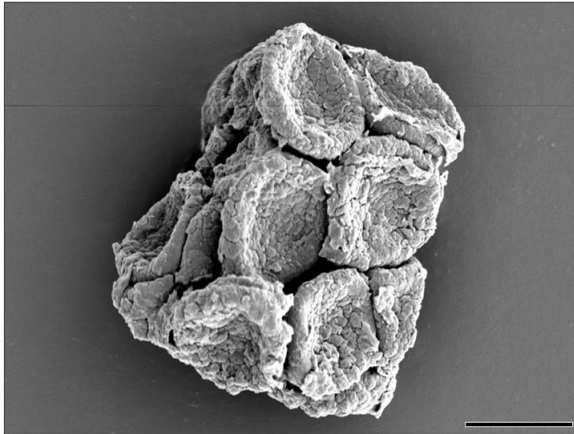
3. Diagnostic Images



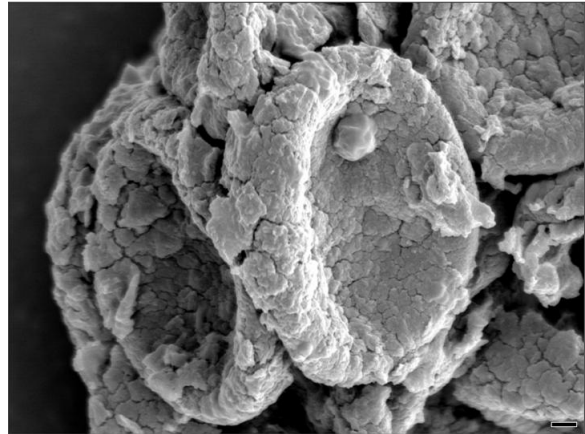
Restiosporisorium spathacei on *Dapsilanthus spathaceus* - BRIP 26965.
Scale bar = 5 mm.
Host symptoms: Roger Shivas DEEDI



Restiosporisorium spathacei on *Dapsilanthus spathaceus* - BRIP 26965. Scale bar = 10 μ m.
Light micrograph: Roger Shivas DEEDI



Restiosporisorium spathacei on *Dapsilanthus spathaceus* - BRIP 26965.
Scale bar = 10 μ m.
Scanning electron micrograph: Desley Tree DEEDI



Restiosporisorium spathacei on *Dapsilanthus spathaceus* - BRIP 26965.
Scale bar = 1 μ m.
Scanning electron micrograph: Desley Tree DEEDI

Results Generated:

Tuesday, July 16, 2019
