



Pacific Pests, Pathogens & Weeds - Mini Fact Sheet Edition

<https://apps.lucidcentral.org/ppp/>

Jackfruit Rhizopus rot (324)



Photo 1. Rots developing on a young jackfruit fruit caused by *Rhizopus stolonifer*.



Photo 2. Spores forming on a young jackfruit fruit infected by *Rhizopus stolonifer*.



Photo 3. Late-stage infection of jackfruit fruit by *Rhizopus stolonifer*, showing the groups of spores (sporangia) on long stalks (sporangiohores).



Photo 4. Black spore masses on top of long stalks (sporangiohores) of *Rhizopus stolonifer*.

Summary

- Worldwide distribution. In soil, and on many hosts. Minor disease of jackfruit, whereas soft fruit and vegetables infected through wounds. In field, rots during long, wet weather; in storage, rots when temperatures and humidity high.
- On flowers and young fruits. On mature fruits, soft, watery, brown spots covered in grey-brown, later black, furry mould. Fruit symptoms occur on tree and in storage.
- Spread by spores in air; thick-walled spores for survival in soil, on plant debris, on seed.
- Cultural control: prune to encourage air flow; remove infected fruits from trees, and ground; harvest and transport carefully; avoid storage at high humidity; if possible, store <10°C; clean packing shed, and use clean bins.
- Chemical control: use mancozeb, benzimidazole, or triazole. To improve storage, apply 10-day pre-harvest spray.

Common Name

Jackfruit Rhizopus fruit rot

Scientific Name

Rhizopus stolonifer; previous names are *Mucor stolonifer*, *Rhizopus artocarpi*, *Rhizopus nigricans*.

Information from Plantwise Knowledge Bank. (<http://www.plantwise.org/KnowledgeBank/SearchResults.aspx?q=rhizopus&cb=2043>). Photos 1,2&4 (taken by Eric McKenzie), and used in this fact sheet, appeared previously in McKenzie E (2013) *Rhizopus stolonifer* PaDIL - (<http://www.padil.gov.au>). Photo 3 Ellen Iramu, Honiara, Solomon Islands.

Produced with support from the Australian Centre for International Agricultural Research under project PC2010/090: *Strengthening integrated crop management research in the Pacific Islands in support of sustainable intensification of high-value crop production*, implemented by the University of Queensland and the Secretariat of the Pacific Community.

This mini fact sheet is a part of the app *Pacific Pests, Pathogens & Weeds*

The mobile application is available from the Google Play Store and Apple iTunes.



Copyright © 2020. All rights reserved.