

Jackfruit Rhizopus rot (324)

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*.



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



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

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Information from Soft rot of Jackfruit (undated) Plantwise Knowledge Bank, (<https://www.plantwise.org/KnowledgeBank/factsheetforfarmers/20157800446>); and Trakunsukharat P, et al. (2011) Rhizopus rot (Rhizopus stolonifer): PaDIL - <http://www.padil.gov.au>; and from (including Photos 1,2&4) McKenzie E (2013) (Rhizopus stolonifer): PaDIL - (<http://www.padil.gov.au>). Photo 3 Ellen Iramu, Honiara, Solomon Islands.

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