

A new Species of *Haplosporella* on *Dryobalanops aromatica* Gaertn.

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Dryobalanops aromatica yields what is popularly known as Borneo or Sumatra camphor. Its fruit is a one-seeded nut and some of the sepals are enlarged into wings. Efforts seem to be being made to introduce this plant into India.

In August, 1953, a consignment of fruits of this plant, imported from Malaya by the Professor of Botany, Agricultural College, Coimbatore, was examined at this Station. An infection of a minute pycnidial fungus with dark coloured, uni-cellular spores borne on rather stout, hyaline conidiophores, was noticed on the pericarp and the basal portions of the calyx (Fig. 1). No such fungus appeared to have been recorded on this or any other allied host so far in India or elsewhere. All diseased material was carefully removed and preserved for further examination. The rest of the consignment was suitably disinfected and released.

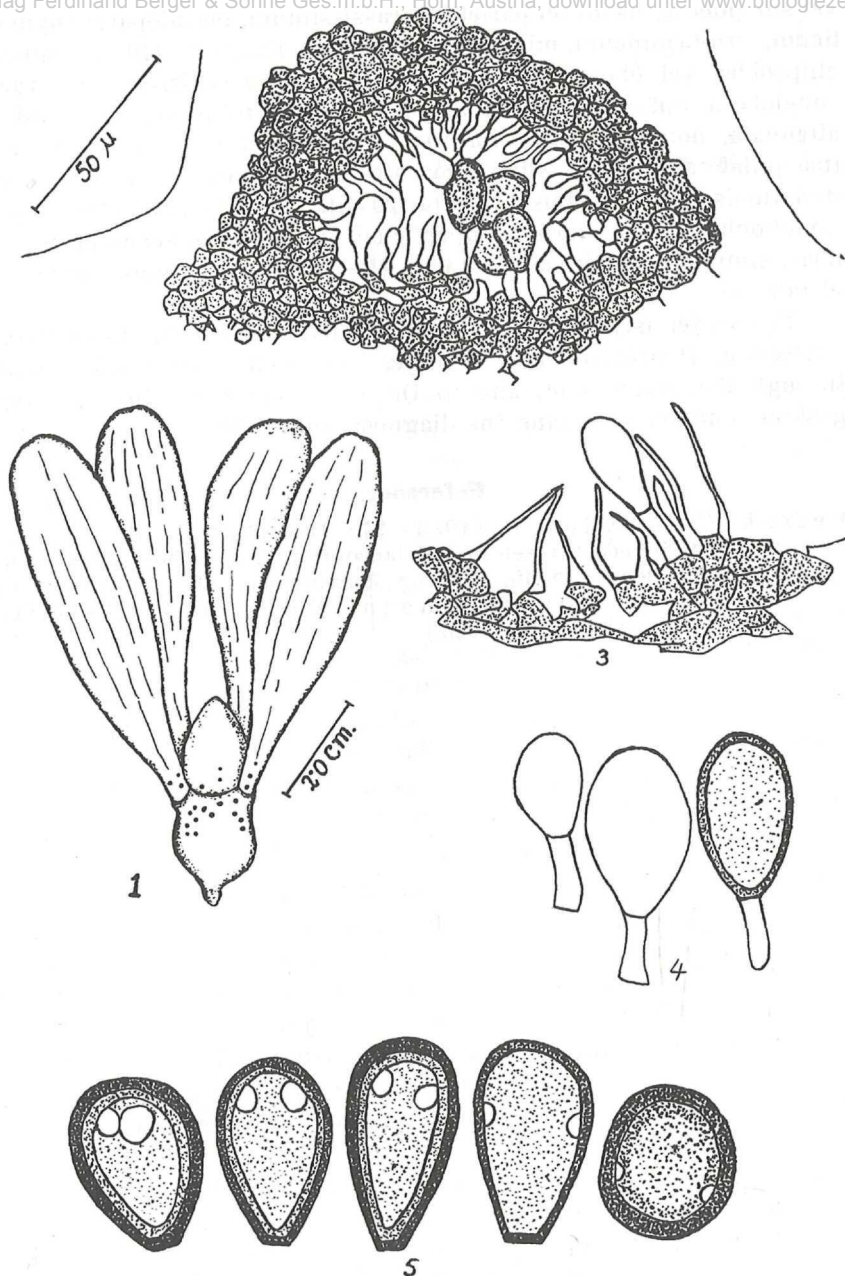
The fungus was apparently a *Sphaeropsis* sensu. Sacc. This genus should, however, be replaced by *Haplosporella* Speg. according to Petrak and Sydow (1926), and since specific delimitation in the Sphaeropsidales is largely on the basis of host, the fungus reported herein is described as a new species of the latter genus, *H. dryobalanopsidis* spec. nov. Its diagnosis follows.

Haplosporella dryobalanopsidis Srivastava spec. nov. (Figs. 2—5).

Pycnidia separate, rarely gregarious, immersed, later erumpent, dark, depressed-conical to subglobose, with a very small lumen and fairly thick wall, $99 \pm 95 \mu$ ($33-132 \pm 49-116 \mu$). Conidia continuous, hyaline when young, ellipsoid-obovate, becoming brown and thick-walled, often with two germ pores, at maturity, and usually with a hilum, $20 \pm 11 \mu$ ($15.5-22.5 \pm 10-13 \mu$). Conidiophores rod-shaped, hyaline, continuous, arising from the entire surface of the pycnidial wall, $5.5 \pm 1.5 \mu$ ($4-7 \pm 1.5-2 \mu$). Pseudophysoids present, filiform, up to 25μ long.

Habitat: on fruit of *Dryobalanops aromatica* Gaertn., ex Malaya, leg. S. N. S. Srivastava, August 1953. Type at Herb. Crypt. Ind. Orient., New Delhi, and Plant Quarantine Station, Harbour, Madras.

Pycnidia irregulariter dispersa, plerumque solitaria, raro subgregaria, innato-erumpentia, sed vix prominula, late depresso-conica



Erklärung der Textfigur.

Figs. 1—5. *Haplosporella dryobalanopsidis* sp. nov.
 Fig. 1. Fruit of *Dryobalanops aromatica* showing pycnidia. Fig. 2. T. S. Pycnidium. Fig. 3. Portion of same further magnified to show a conidiophore and pseudophysoids. Fig. 4. Young conidia on conidiophores. Fig. 5. Mature conidia.

vel subglobosa, loculi ob parietem crassissimum, pseudoparenchymaticum, atro-brunneum, minuti, $99 \Rightarrow 95 \mu$ ($33-132 \Rightarrow 49-116 \mu$). Conidia ellipsoidea vel obovoidea, interdum plus minusve irregularia, raro subglobosa, antice late rotundata, postice plus minusve, saepe valde attenuata, non raro papilliformiter protracta et truncata, recta vel inaequilatera, primo hyalina, mox atro-olivacea, continua, poris germinationis saepe duobus praedita, $20 \Rightarrow 11 \mu$ ($15.5-22.5 \Rightarrow 11-13 \mu$). Conidiophora totam parietis superficiem interiorem obtegentia, bacillaria, simplicia, continua, $5.5 \Rightarrow 1.5 \mu$ ($4-7 \Rightarrow 1.5-2 \mu$), mox viescentia et mucosa.

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Reference.

Petrak, F. and Sydow, H. (1926—27). Die Gattungen der Pyrenomyzeten, Sphaeropsideen und Melanconieen: Teil I. Die phaeosporen Sphaeropsideen und die Gattung *Macrophoma*. Repertorium Specierum Novarum Regni Vegetabilis Beihefte 42: 1—551. (Original not seen.)

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

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