

## Short Communication

***Phakopsora schreberae*, sp. nov. (Uredinales) occurs on *Schrebera swietenoides* in India**Gaddam Bagyanarayana<sup>1)</sup>, Polluri Ramesh<sup>1)</sup> and Yoshitaka Ono<sup>2)\*</sup><sup>1)</sup> Department of Botany, Osmania University, Hyderabad 500 007, Andhra Pradesh, India<sup>2)</sup> Faculty of Education, Ibaraki University, 2-1-1 Bunkyo, Mito, Ibaraki 310-8512, Japan

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A rust fungus was described from *Schrebera swietenoides* (Oleaceae) collected in India. The fungus possessed densely paraphysate uredinia and subepidermal, crustose telia with irregularly 5–7-layered sessile teliospores. These morphologies are characteristic of *Phakopsora*, although no *Phakopsora* species had been reported from the family Oleaceae. The fungus was concluded to be a new species and a name, *Phakopsora schreberae*, was proposed for the new species.

Key Words—a new species, Oleaceae, Phakopsoraceae, rust fungus.

*Schrebera swietenoides* Roxb. is a deciduous tree species of Oleaceae, being one of 25 species in the genus (Schrebereae-Jasminoideae). Although not frequently encountered, the tree species is distributed throughout the Telangana forest in Andhra Pradesh. Recently, a rust fungus was found on the leaves of this tree species at Kurnool District of Andhra Pradesh, India. The fungus possessed densely paraphysate uredinia and subepidermal, crustose telia with irregularly 5–7-layered sessile teliospores. These morphologies are characteristic of *Phakopsora* (Ono et al., 1992; Ono, 2000), although no *Phakopsora* species had been reported from the family Oleaceae. The fungus was concluded to be a new species, and the name *Phakopsora schreberae* was proposed for the new species.

***Phakopsora schreberae*** Bagyanarayana, P. Ramesh & Y. Ono, sp. nov. Figs. 1–4

Uredinial anamorph: ***Physopella schreberae*** Bagyanarayana, P. Ramesh & Y. Ono, anamorph nov.

Spermogonia et aecia ignota. Uredinia hypophylla, minuta, sparsa vel minute aggregata, subepidermalia, erumpentia, paraphysibus peripheralibus capitato-clavatis vel clavato-cylindraceis leviter incurvatis 39–73  $\mu\text{m}$  altis et 8.4–13.9  $\mu\text{m}$  latis pariete tenui ad apicem 3.2–14.0  $\mu\text{m}$  crasso praeditis. Urediniosporae obovato-ellipsoideae vel late ellipsoideae, 23–29  $\times$  15–20  $\mu\text{m}$ , pariete ca 1.0  $\mu\text{m}$  crasso echinulato, poris germinationis obscuris. Telia hypophylla, crustiformia, brunnea vel atrobrunnea, saepe confluentia, subepidermalia, applanata. Teliosporae irregulariter depositae, 5- vel 7-stratae, late ellipsoideae vel oblongo-ellipsoideae, 16–23  $\times$  7–13  $\mu\text{m}$ ,

pariete 2.0–2.5  $\mu\text{m}$  crasso castaneo-brunneo.

Spermogonia and aecia unknown. Uredinia hypophyllous, minute, scattered or aggregate in small groups, subepidermal, becoming erumpent, surrounded by paraphyses. Paraphyses capitato-clavate or clavate-cylindrical, 39–73  $\mu\text{m}$  high and 8.4–13.9  $\mu\text{m}$  wide, The wall evenly thin-walled at sides and apically thickened (3.2–14.0  $\mu\text{m}$ ). Urediniospores obovate-ellipsoid to broadly ellipsoid and 23–29  $\times$  15–20  $\mu\text{m}$ . The wall evenly ca 1.0  $\mu\text{m}$  thick, almost colorless and completely echinulate. Germ pores obscure. Telia hypophyllous, crustose, brown to blackish brown, often confluent, subepidermal and applanate. Teliospores irregularly 5–7 layered, broadly ellipsoid to oblong-ellipsoid and 16–23  $\times$  7–13  $\mu\text{m}$ . The wall evenly 2.0–2.5  $\mu\text{m}$  thick and chestnut-brown,

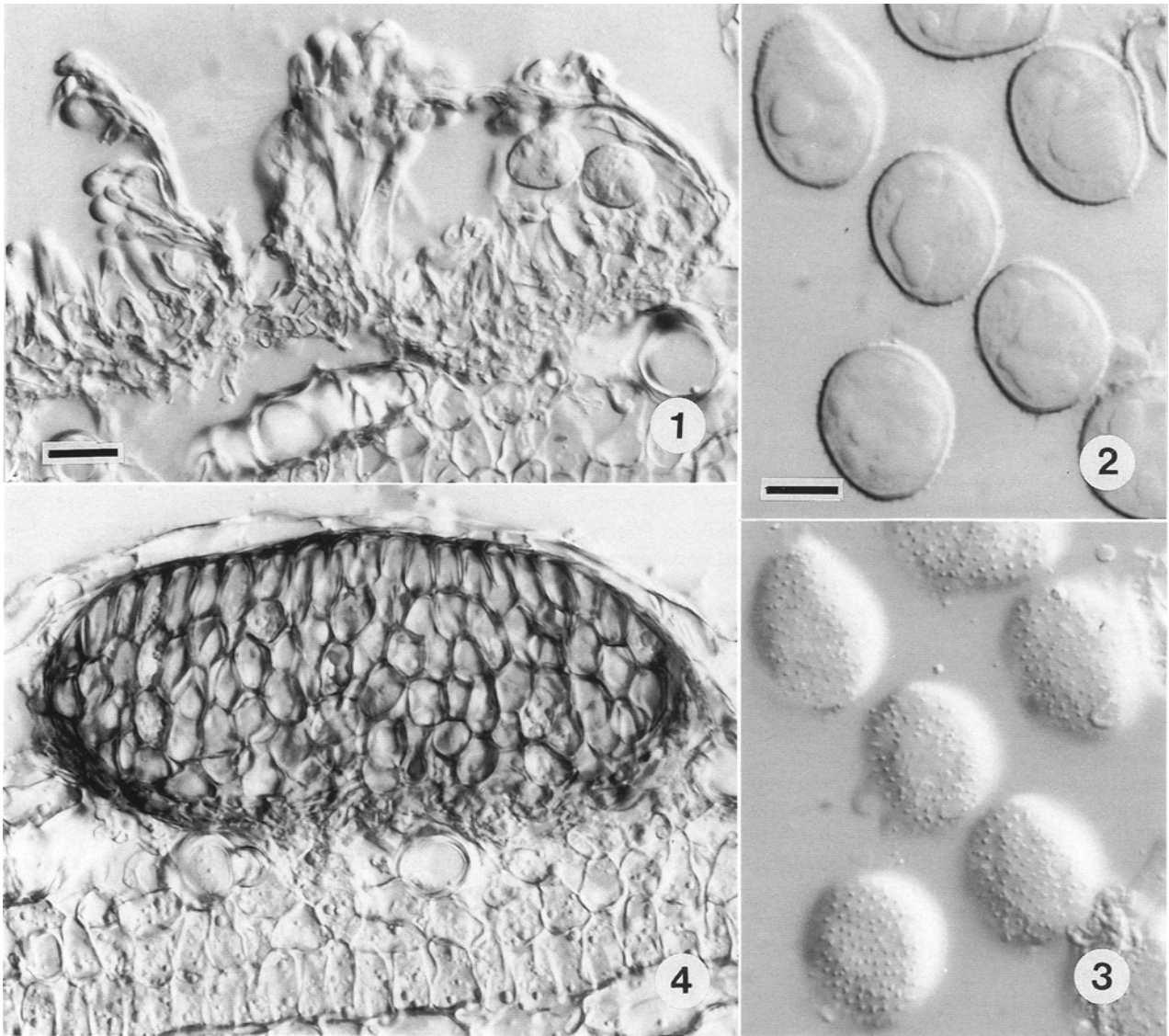
Holotype: On *Schrebera swietenoides* Roxb., Gundlabrahmeswaram, Velgode, Kurnool District, Andhra Pradesh, INDIA, Jan. 2001, G. Bagyanarayana and P. Ramesh (IBA-8654).

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## Literature cited

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Figs. 1–4. *Phakopsora schreberae* (IBA-8654: Holotype). 1. Peripherally paraphysate uredinia (vertical section). 2. Urediniospores focused at a median plane. 3. The same urediniospores as in Fig. 2 but focused at a tangential plane. 4. Telium (vertical section). Scale bars: 1, 4 = 20  $\mu\text{m}$ ; 2, 3 = 10  $\mu\text{m}$ .