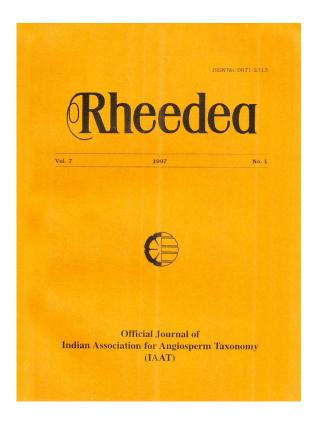


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How to cite:

Rajesh K.P., Augustine J. & N. Sasidharan 1997. Rediscovery of *Taeniophyllum scaberulum* Hook. f., an endemic orchid from Periyar Tiger Reserve, Kerala, India. *Rheedea* 7(1): 43–46.

https://dx.doi.org/10.22244/rheedea.1997.07.01.08

Published in print: 30.06.1997 Published Online: 01.01.2022



Vol. 7(1): 43-46. 1997

Rheedea

Rediscovery of Taeniophyllum scaberulum Hook. f., an endemic orchid from Periyar Tiger Reserve, Kerala, India

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Abstract

Taeniophyllum scaberulum Hook. f. (Orchidaceae) first collected in 1854 from 'Travancore', had so far not been located and was considered extinct. Now the species is collected after a gap of 140 years from the Periyar Tiger Reserve, Kerala.

The palaeotropic genus *Taeniophyllum* consists of about 120 species, of which eight are reported from India (Sathish Kumar & Manilal, 1994). Among the Indian species, four are from the Himalayas, two from the Andamans and the rest from Peninsular India. *T. alwisii* Lindl. was considered to be restricted to Sri Lanka until it was reported recently from Tamil Nadu (Seidenfaden, 1983; Ansari *et al.*, 1994). The other South Indian species *viz.*, *T. scaberulum* was described by Hooker based on the specimen collected by Rev. E. Johnson from 'Cottayam, Travancore' in 1854. After the first collection no later collections have been known and the species was categorised as endangered (Henry *et al.*, 1979; Kumar & Sasidharan, 1986; Ahmedullah & Nayar, 1987). The earlier efforts made to relocate the species were not successful and it made the workers to consider it as extinct (Sathish Kumar, 1991; Sarkar, 1995). No specimen of this species was hitherto available in any of the Indian herbaria. Recently the species was collected during the studies on the flora of Periyar Tiger Reserve in Kerala state. The present collection after about 140 years of its first collection demonstrates that it is very rare but has not become extinct. Detailed description and illustrations based on fresh collections are provided for a thorough understanding of the species.

Taeniophyllum scaberulum Hook. f., Fl. Brit. India 6:77. 1890; Fischer in Gamble, Fl. Pres. Madras 1448. 1928; Bose & Bhattacharjee, Orch. India 497. 1980 (Fig. 1).

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K.P. Rajesh et al.

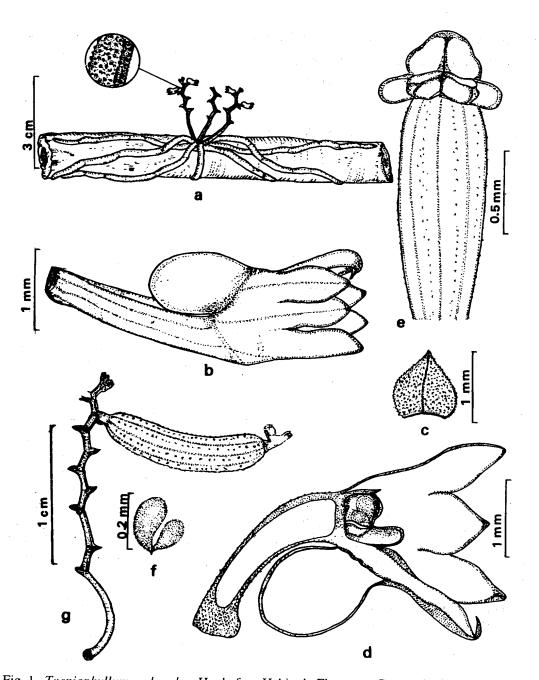


Fig. 1. Taeniophyllum scaberulum Hook. f. a. Habit; b. Flower; c. Bract; d. Flower - L.S.; e. Column; f. Pollinia; g. Fruit.

Taeniophyllum scaberulum Hook. f. (Orchidaceae)

Small leafless epiphytes. Stem much reduced. Roots subterete, 50-80 x 1 mm. Spikes 15-20 mm long produced from the centre of the reduced stem, 2-4-flowered; peduncle angular. Bracts 0.9 x 1 mm, ovate-acute, persistent. Flowers subsessile, 3.5-4 x 2 mm, creamy white. Sepals and petals united into a 6-toothed tube; dorsal sepal 1-1.1 x 0.9 mm, ovate, subacute, basally 2-veined, lateral sepals 1.1 x 0.8 mm, ovate, 1-veined. Petals 0.9 x 0.8 - 0.9 mm, ovate, acute, 1-veined. Lip 2.2 x 1 mm, ovate-acute, tip recurved into a barb-like mucro; base saccate, basally 4-veined, united to form a single vein at the apex. Column 0.5 x 0.5-0.6 mm, with 2 lateral oblong rounded outgrowths at base; rostellum acute. Anther terminal, 0.2 x 0.1 mm, unequally 4-locular; pollinia 4 of 2 unequal superposed pair, pyriform, papillate. Ovary 1.6-1.8 x 0.2 mm. Capsule 10-12 x 2 mm, oblong, subfalcate, 9-ribbed, scaberulous.

Flowering & Fruiting: February - June.

- Specimens examined: India, Kerala State: Periyar Tiger Reserve, Idukki District, alt. 900 m. 10-6-1995. K.P. Rajesh 16214; Ibid., 20-9-1995. K.P. Rajesh 16831 (KFRI).
- Note: Hooker (1890) recorded it as growing on branches of teak (Tectona grandis). We found the species growing on Catunaregam spinosa, Mesua ferrea, Osbeckia lawsonii, Psidium guajava and Terminalia paniculata.

Acknowledgements

The authors are thankful to Dr. C. Sathish Kumar, TBGRI, Thiruvananthapuram, Kerala for critical examination and confirmation of the identity of the specimens, and to Dr. K.S.S. Nair, Director, Kerala Forest Research Institute for providing facilities. The study was carried out with financial assistance from the Wildlife Wing, Kerala Forest Department.

Literature cited

- Ahmedullah, M. & M. P. Nayar. 1987. Endemic Plants of the Indian Region. B.S.I., Calcutta.
- Ansari, A. A., P. G. Diwakar & P. Dwarakan. 1994. Occurrence of *Taeniophyllum alwisii* Lindl., A tiny rare and little known orchid from Sheveroy and Kolli Hills of Tamil Nadu. *Indian J. For.* 17: 260-261.
- Henry, A. N., K. Vivekanandan & N. C. Nair. 1979 (1978). Rare and threatened flowering plants of South India. *J. Bombay nat. Hist. Soc.* 75: 684-687.
- Hooker, J. D. Taeniophyllum. In: Flora of British India. Vol. 6. L. Reev & Co., London.
- Kumar, M. & N. Sasidharan. 1986. Orchids of Kerala and their conservation. *In*: S.P. Vij (Ed.), *Biology, Conservation and Culture of Orchids*. Affiliated East-West Press, New Delhi. pp. 363-376.
- Sarkar, P. K. 1995. Rare, Endangered and Endemic Orchids of India. J. Econ. Tax. Bot. (Addl. Ser.) 11: 33-47.

K.P. Rajesh et al.

- Sathish Kumar, C. 1991. Native Orchids of Western Ghats A struggle for survival. *In*: C.K. Karunakaran (Ed.), *Proc. Symp. Rare, Endangered and Endemic Plants of Western Ghats*. Kerala Forest Department, Trivandrum. pp. 209-214.
- Sathish Kumar, C. & K. S. Manilal. 1994. A Catalogue of Indian Orchids. Bishen Singh Mahendra Pal Singh, Dehra Dun.
- Seidenfaden, G. 1983. Orchidaceae. *In*: K.M. Matthew, *Flora of Tamil Nadu Carnatic*. Tiruchirapalli. Vol. 3: 1550-1616.