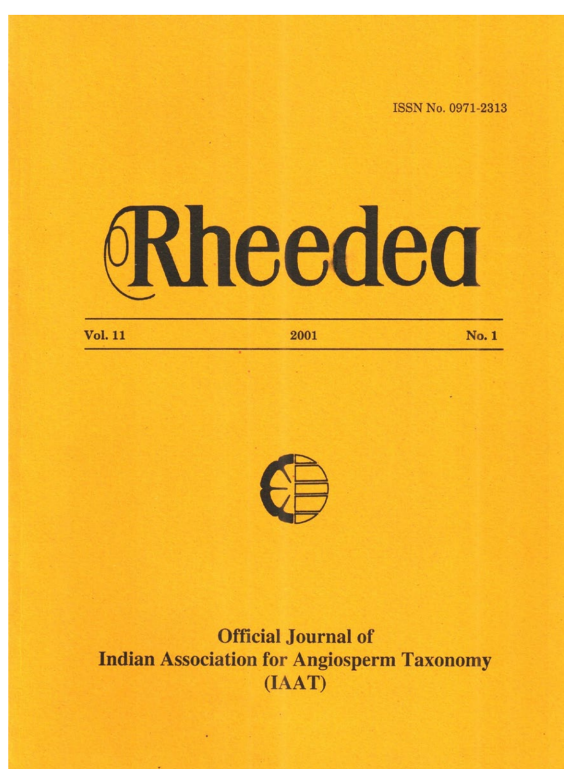




Grewia palodensis (Tiliaceae), a new species from Kerala, India

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How to cite:

Kumar E.S.S., Shanavas Khan A.E., Binu S. & S.M. Almeida 2001. *Grewia palodensis* (Tiliaceae), a new species from Kerala, India. *Rheedeia* 11(1): 41–43.

<https://dx.doi.org/10.22244/rheedeia.2001.11.01.04>

Published in print: 30.06.2001

Published Online: 01.01.2022

***Grewia palodensis* (Tiliaceae), a new species
from Kerala, India**

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Abstract

A new species, viz., *Grewia palodensis* (Tiliaceae), is described and illustrated.

INTRODUCTION

The genus *Grewia* Linn., with about 150 species, is distributed in tropical and subtropical regions of the Old World (Mabberley, 1990). It is represented in India by 31 species (Daniel & Chandrabose, 1993), of which 23 species occur in Peninsular India.

During the course of floristic studies on the Sacred Groves in Thiruvananthapuram district of Kerala, the senior author collected a specimen of *Grewia* that did not fit with any of the hitherto described species mentioned by Gamble (1915), Masters (1874), or Daniel and Chandrabose (1993). Detailed studies proved it to be a species new to science belonging to the subgenus *Eugrewia*, series *Columnares*.

***Grewia palodensis* Santhosh, Shanavas, Binu et Almeida, *sp. nov.* (Fig. 1).**

Grewia umbellifera affinis, in cymis axillaribus vel terminalibus multifloris, andro-gynophoro distincte 4-sulcato, drupis bipartitis differt.

Type: India, Kerala, Thiruvananthapuram district: Manthuruthy Kavu, Palode, 20 June 1994, Santhosh Kumar 20091 (*Holo* - TBGT; *Iso* - CAL, MH, BLAT).

Lianae; branchlets brown, stellate-tomentose. Leaves 8-12 x 4-6 cm, broadly elliptic or oblong, rounded at base, abruptly acuminate at apex, crenate-serrate at margin, thin-coriaceous, stellately pubescent, sparsely so above and along the nerves beneath; basally 3-nerved; petiole 0.7-1 cm long, stellate-pubescent; stipules 0.5-0.6 cm long, linear, caducous. Inflorescence axillary and terminal, many-flowered umbellate cymes; peduncles 1-3 together,

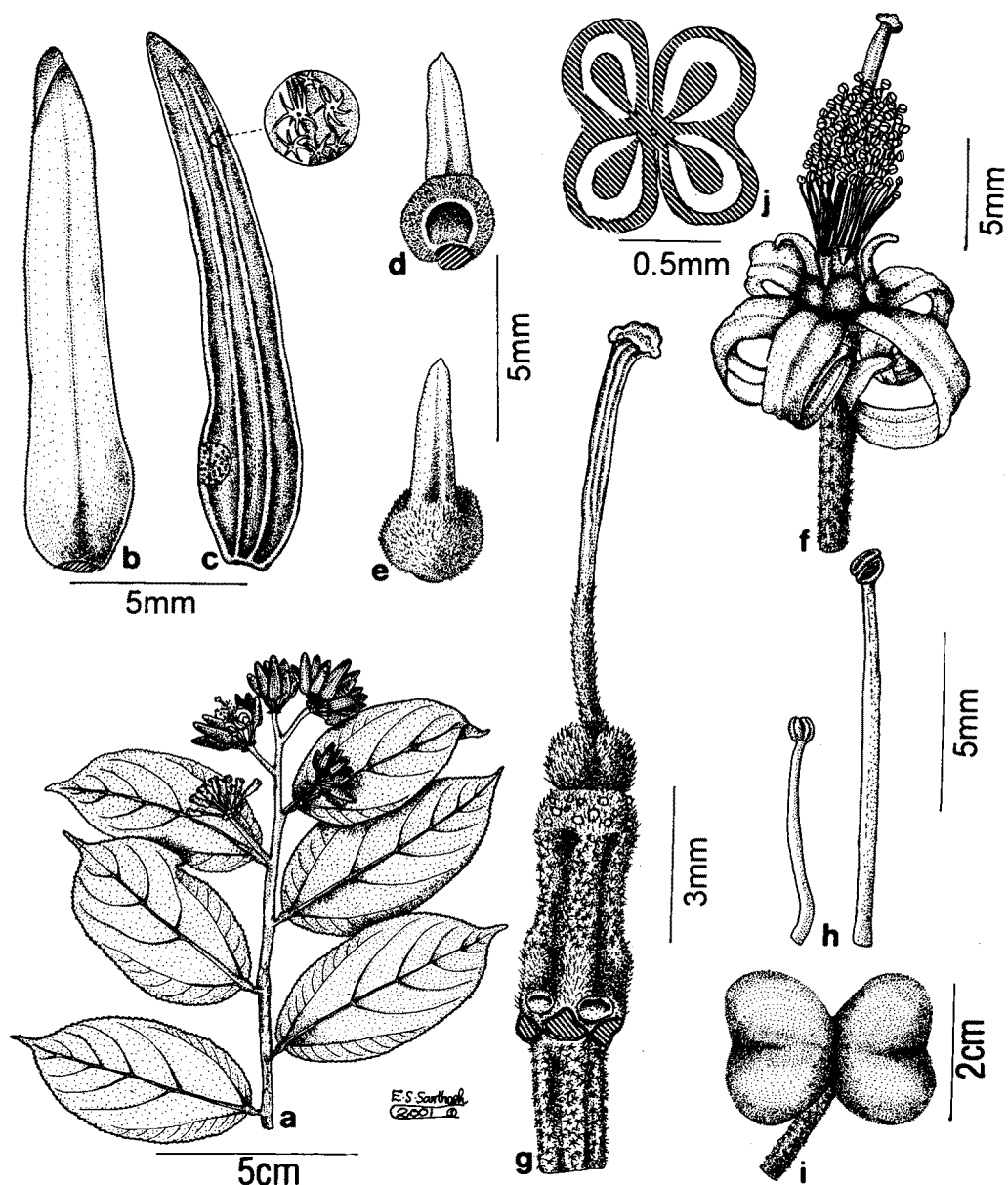
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Fig. 1. *Grewia palodensis* Santhosh *et al.*: a. Flowering branch; b & c. Sepals - dorsal and ventral views; d & e. Petals - ventral and dorsal views; f. Flower; g. Torus with pistil; h. Stamens; i. Fruits; j. C.S. of ovary.

***Grewia palodensis*, a new species from Kerala, India**

3-4.5 cm long, stellate-pubescent; bracts 0.5-0.6 cm long, linear, channelled, puberulent; pedicels 0.8-1.2 cm long in flower, to 2 cm long in fruits. Flowers 0.8-1 cm across. Sepals 5, narrowly oblong-lanceolate, 1.5-1.8 x 0.3 cm, light greyish, reflexed and curled, longitudinally ribbed, stellately-tomentose without, and pubescent at the base within. Petals 5, linear-oblong, narrow, 0.5-0.6 cm long, obtuse-apiculate at apex, base densely appressed pilose, gland to 0.2 cm. Andro-gynophore distinctly 4-grooved, to 2.5 mm, stellate-hairy discoid glands at base. Stamens 5-10 mm long; filaments glabrous; anthers 2-celled. Ovary globose, villous, to 1 mm long, 4-locular with 1-ovule in each locule; style 0.6-0.7 cm long, puberulent 1/3 from the base; stigma shallowly 4-5-grooved. Drupe deeply 2-partite, lobes emarginate, 1.5-2 cm wide, black at maturity, sparsely stellate-hairy. Pyrenes 2-per lobe, glabrous.

Grewia palodensis is allied to *G. umbellifera* Bedd. in many respects, but clearly to be distinguished by the many-flowered axillary and terminal cymes, distinctly 4-grooved andro-gynophore, and the bi-partite fruits.

Flowering and fruiting: May - October.

Distribution: India, Kerala State, Thiruvananthapuram district.

Habitat: Sacred Groves and evergreen forests of southern most part of Kerala.

Etymology: The new species is named after its type locality, Palode.

Other specimens examined: INDIA, Kerala: Thiruvananthapuram district: Bonaccord, Santhosh Kumar 16067 (Paratype - TBGT); Ayaniyerathala Kavu, Santhosh Kumar 34495 (Paratype - TBGT).

Acknowledgements

The authors are grateful to Dr. G. Sreekandan Nair, Director, TBGRI for the facilities and for constant encouragements. They are also thankful to Dr. V.J. Nair, the then Liaison Officer, at Kew for comparing our specimens with the relevant materials at Kew, and also to Dr. J.V. Vedkamp, Rijksherbarium, Leiden for the Latin diagnosis.

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