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29. *Noronhia gautieri* Hong-Wa, *spec. nova* (Fig. 21, 22A).

Typus: MADAGASCAR. **Prov. Antsiranana:** SAVA, Vohémar, Daraina, forêt d'Antsahabe, 13°13'03"S 49°32'51"E, 900 m, 6.XII.2004, *Gautier & Nusbaumer 4839* (holo-: MO-6386608!; iso-: Daraina, G [G00019223] image seen, K, P [P00853025]!, TEF!).

Diagnosis *Noronhia gautieri* Hong-Wa can be distinguished from other members of the genus by its broadly ovate leaf blades, with rounded base, its long-pedicellate, subglobose fruits, with large persistent sepals, and its crustaceous endocarp.

Description Shrubs to 3.5 m tall, trunk to 3 cm diameter; young twigs cylindrical, 1.2-1.5 mm diameter, glabrous; bark yellowish, smooth, somewhat flaky. *Leaves* opposite, persistent; bud scales persistent; blades medium green above, lighter below, ovate, 7-13 × 2.5-5.5 cm, subcoriaceous, glabrous, domatia absent, base rounded, margin flat, apex acute to acuminate, the acumen 1-9 mm long, midrib flat above, distinctly raised below, secondary veins conspicuous, 10-14 per side, 7-23 mm apart, looping 2-6 mm from the margin; petiole light gray, 8-13 × 2-3 mm, entirely woody, glabrous. *Flowers* unseen, but infructescence thyrsoïd. *Fruiting pedicel* 13-17 × 1.5-2.5 mm; young fruits green, yellowish when mature, subglobose, 11.5-20 × 10.5-18 mm, surface smooth, apex flat to slightly apiculate; dry pericarp 1-1.2 mm thick; endocarp crustaceous; seed 9-13 × 7-10 mm.

Etymology This species is dedicated to Laurent Gautier, Curator at the Conservatoire et Jardin botaniques de la Ville de Genève, who collected the type specimen and has contributed widely to the knowledge of the flora of northern Madagascar.

Distribution, ecology and phenology *Noronhia gautieri* occurs in semi-deciduous and humid forests at low elevation in north-eastern Madagascar (Fig. 19). It fruits from October to December.

Conservation status The assessment was based on three collections representing three localities and provided an EOO of 10,027 km², an AOO of 12 km², and three subpopulations representing three locations, two of which occur within protected areas (Loky-Manambato and Tsaratanana-Ambohimirahavy-Corridor Marojejy). With a restricted distribution and projected continuing decline in habitat quality resulting from illicit forest exploitation, *N. gautieri* is assigned a preliminary status of "Vulnerable" [VU B1ab(iii)+2ab(iii)].

Notes *Noronhia gautieri* is similar to *N. capuronii*, but can be distinguished by its glabrous (vs. pubescent) petiole, rounded (vs. cordate) leaf base, and flat to apiculate (vs. flat) fruit apex.

Paratypes MADAGASCAR. **Prov. Antsiranana:** Antongondriha, Mt Anjenabe, [14°18'S 49°45'E], 500-600 m, 3-7.XI.1950, *Humbert & Capuron 24047* (MO, P); Antalaha, Ambohitralanana, [15°14'S 50°27'E], 9.X.1953, *Réserves Naturelles 5716* (MO, P).

Fig. 21. *Noronhia gautieri* Hong-Wa. **A.** Fruiting branch; **B.** Abaxial side of leaf blade; **C.** Adaxial side of leaf blade; **D.** Fruit.

[Gautier 4839, MO] Drawings: R.L. Andriamiarisoa

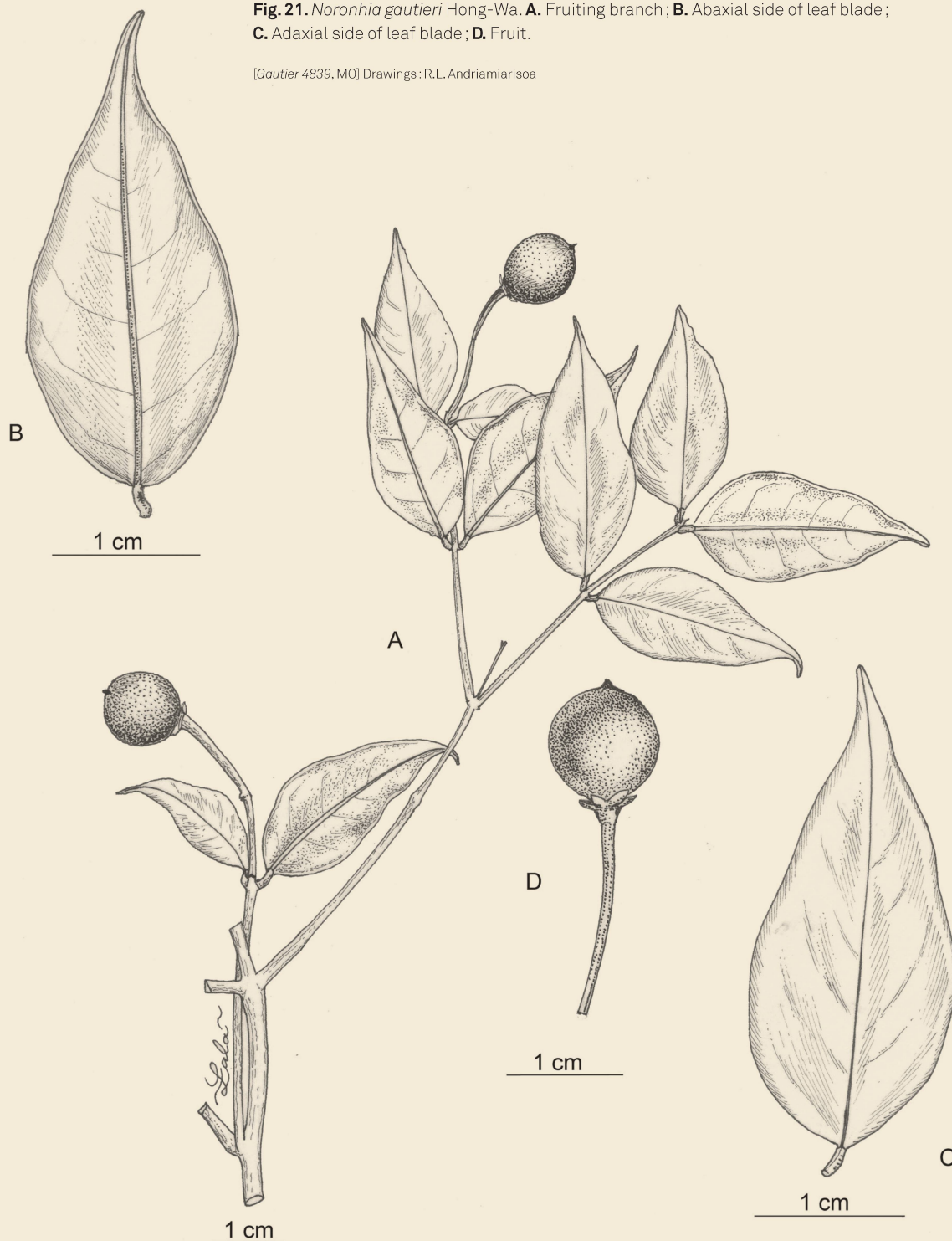




Fig. 22. Photographs of *Noronhia* *Stadtm.* ex Thouars.
A. *Noronhia gautieri* Hong-Wa [Gautier 4839]; **B.** *Noronhia gracilipes* H. Perrier [Antilahimena 7782];
C. *Noronhia grandifolia* H. Perrier [Gautier 4803]; **D.** *Noronhia greeniana* Hong-Wa [Ratvoson 1102].

Photos: taken by respective collectors