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**Artikel:** A taxonomic revision of the genus *Noronhia* Stadtm. ex Thouars (Oleaceae) in Madagascar and the Comoro Islands  
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**72. *Noronhia rollandii*** Hong-Wa, *spec. nova* (Fig. 58).

**Typus:** MADAGASCAR. **Prov. Toamasina:** Alaotra-Mangoro, Moramanga, Ambatovy, Ampitabe, piste direction S du campement Dynatec, 18°51'34"S 48°17'13"E, 1080 m, 18.I.2005, *Ranaivojaona et al. 1151* (holo-: MO-6615552!; iso-: G [G00341615]!, K!, P!, TAN!).

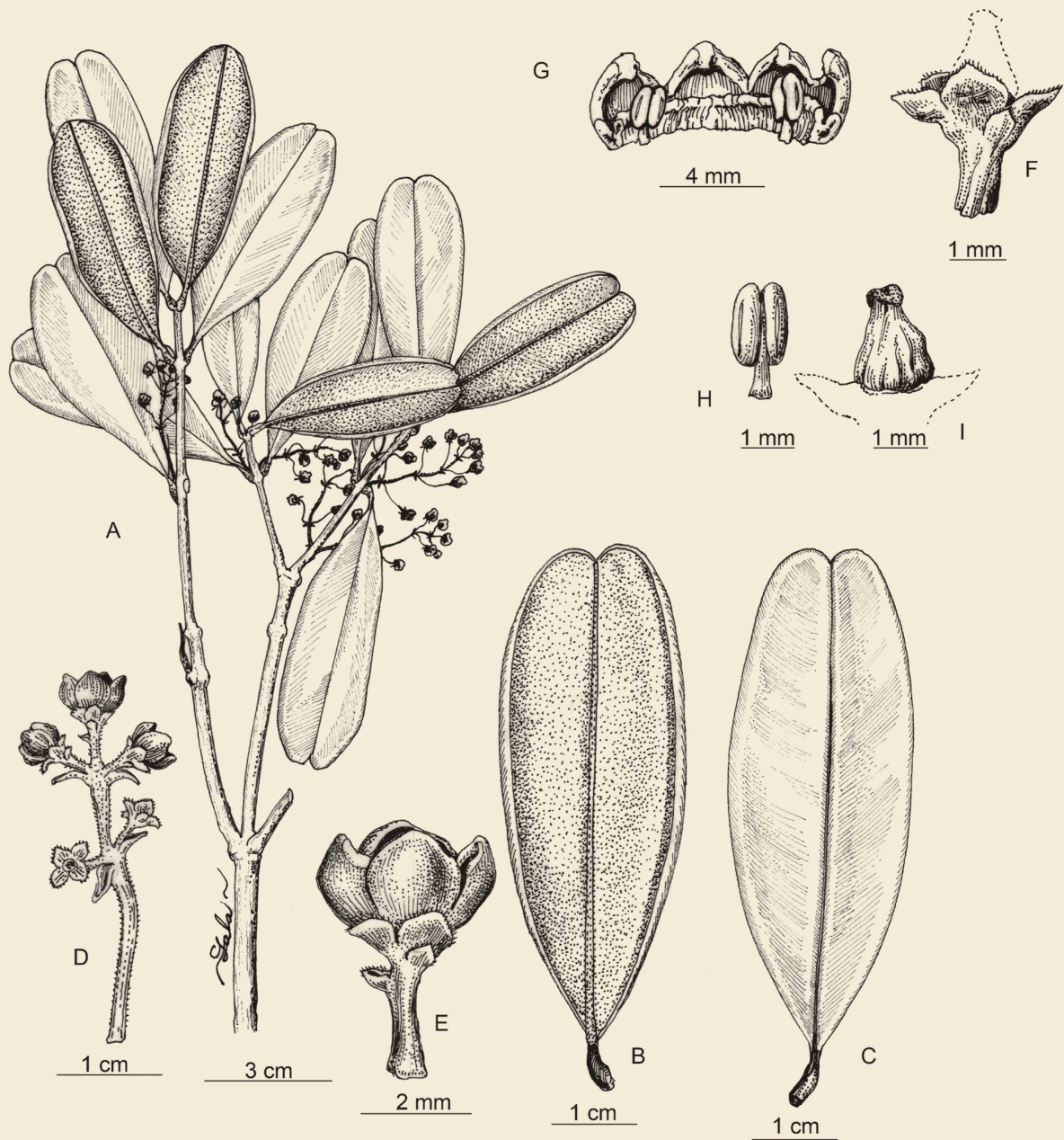
**Diagnosis** *Noronhia rollandii* Hong-Wa can be distinguished from other members of the genus by its non-woody petioles, its opposite to verticillate, oblong leaf blades, its urceolate, yellow flowers, and its ovoid, punctate fruits.

**Description** Trees to 15 m tall, trunk to 24 cm diameter; young twigs cylindrical to somewhat flattened, 1.1-2.3 mm diameter, glabrous; bark dark gray, smooth, with scattered lenticels. Leaves opposite, verticillate at the tips of the branches, persistent; bud scales deciduous; blades light green above, darker below, oblong, 4-10 × 1.5-3 cm, coriaceous, glabrous, domatia absent, base attenuate, margin flat, apex retuse, midrib slightly sunken above, distinctly raised below, secondary veins inconspicuous, 7-12 per side, 5-15 mm apart, looping 1-3.5 mm from the margin; petiole brown, 4-10 × 1-3 mm, not woody or only up to mid-length, glabrous. Thyrses geminate, multiflorous, compact; peduncle 5-10 mm long, moderately pubescent; pedicel 2-8 mm long, moderately pubescent; calyx moderately pubescent outside, glabrous inside, lobes triangular, 0.8-1.5 × 1-1.8 mm; corolla yellow tinged pinkish outside, yellow inside, urceolate, 3-4.5 mm long, glabrous on both sides, the tube 1-2 mm long, lobes widely ovate, apex acute; corona present, 1.7-2.3 mm long, undivided; stamens 2-2.5 mm long, anthers oblong to obovate, 1.5-1.8 mm long; pistil 2-2.7 mm long, stigma capitate. Fruiting pedicel 2-8 × 1-2.5 mm; young fruits green, brownish to blackish when mature, ovoid, 12-24 × 8-17 mm, covered with white dots, apex bluntly pointed to apiculate; dry pericarp 0.3-1.4 mm thick; endocarp woody; seed 9-15.5 × 7-11.5 mm.

**Etymology** This name honors the late Rolland Ranaivojaona, a botanist at the Parc Botanique et Zoologique de Tsimbazaza (TAN), for collecting the type specimen and for sharing his knowledge of the Malagasy flora.

**Distribution, ecology and phenology** *Noronhia rollandii* occurs in mid- to high-elevation humid forests in the east, from Anjanaharibe-Sud to Mangoro (Fig. 49). It produces flowers year-round except in December.

**Conservation status** The assessment included 29 collections representing 28 localities and yielded an EOO of 38,636 km<sup>2</sup>, an AOO of 84 km<sup>2</sup>, and 13 subpopulations representing 11 locations, of which seven occur within protected areas (Anjanaharibe-Sud, Corridor Ankeniheny-Zahamena, Makira, Mantadia, Masoala, Torotorofotsy, and Zahamena). Although the estimated AOO is rather small, the actual AOO is likely much larger and may well exceed 2,000 km<sup>2</sup>. That, along with a large EOO, a high number of locations, and good representation within the network of protected areas, indicates a preliminary status of "Least Concern" for *N. rollandii*.



**Fig. 58.** *Noronhia rollandii* Hong-Wa.

**A.** Flowering branch; **B.** Abaxial side of leaf blade; **C.** Adaxial side of leaf blade; **D.** Inflorescence; **E.** Flower; **F.** Calyx; **G.** Inner side of corolla; **H.** Stamen; **I.** Pistil.

[Ranaivoajana 1151, M0] Drawings: R.L. Andriamiarisoa

**Notes** *Noronhia rollandii* is similar to *N. obtusifolia*, but can be distinguished by its opposite to verticillate (vs. entirely opposite), oblong (vs. obovate) leaves, urceolate (vs. campanulate), yellow tinged pinkish (vs. white) flowers, the presence (vs. absence) of a corona, and its punctate (vs. smooth to ribbed) fruits. The new species can be recognized by its non-woody petioles, opposite to verticillate, oblong leaf blades, urceolate, yellow flowers, and ovoid, punctate fruits.

**Paratypes** **MADAGASCAR. Prov. Antsiranana:** Andapa, Anjanaharibe-Sud RS, 14°46'15"S 49°28'E, 1161-1424 m, 21.III-7.IV.1994, *Ravelonarivo et al.* 91 (K, MO, TAN); *ibid. loc.*, 14°44'42"S 49°27'42"E, 1185-1335 m, 3.XI.1994, *Ravelonarivo & Rabesonina* 484 (G, K, MO, P, TAN). **Prov. Fianarantsoa:** Ivohibe RS, 22°25'18"S 46°53'54"E, 1200 m, 10.XI.1997, *Rakotomalaza* 1526 (G, MO). **Prov. Mahajanga:** Befandriana-Nord, Matsoandakana, Ambotaharanana, Andranomena, 15°08'16"S 49°20'55"E, 1077 m, 12.II.2008, *Bernard* 770 (G, MO, P, TAN); *ibid. loc.*, Andasinanantsomanga, Amparihy, 14°55'34"S 49°24'59"E, 25.II.2008, *Bernard* 938 (G, MO, P, TAN); *ibid. loc.*, Ambotaharanana, Andranomena, forêt d'Anjiabe, 15°08'19"S 49°21'50"E, 1208 m, 14.II.2008, *Ravelonarivo et al.* 2831 (MO, P, TAN); *ibid. loc.*, 15.II.2008, *Ravelonarivo et al.* 2865 (MO, P, TAN); Tsaravilona, Amparihy, Androva, 14°55'36"S 49°25'40"E, 1154-1178 m, 22.II.2008, *Ravelonarivo* 2893 (MO, P, TAN). **Prov. Toamasina:** Antanandava, Zahamena PN, 17°29'47"S 48°45'35"E, 1000-1912 m, 2.II.2002, *Andrianjafy et al.* 289 (CNARP, K, MO, P, TEF); Maroantsetra, Mahalevona, Masoala PN, 15°25'47"S 49°57'33"E, 1198 m, 8.X.2003, *Antilahimena et al.* 2152 (MO, P); Ambinanitelo, Ambalamahogo, Maimborondro, 15°18'39"S 49°22'43"E, 1100 m, 6.IX.2004, *Antilahimena* 2835 (MO, P); Moramanga, Ambatovy, 18°49'19"S 48°20'08"E, 1094 m, 3.II.2005, *Antilahimena et al.* 3299 (MO, P, TAN); *ibid. loc.*, 18°48'24"S 48°19'51"E, 1102 m, 10.XI.2005, *Antilahimena & Edmond* 4182 (G, MO, P, TAN); *ibid. loc.*, 18°51'34"S 48°18'00"E, 1129 m, 8.VIII.2008, *Antilahimena et al.* 6425 (MO, P, TAN); Brickaville, Maroseranana, Ambodilendemy, Ankerana, 18°25'56"S 48°47'11"E, 854 m, 18.III.2011, *Antilahimena & Randrimantsoa* 7637 (G, MO, P, TAN); Ambatovy, 18°50'30"S 48°18'11"E, 1111 m, 19.V.2010, *Bernard et al.* 1573 (MO, P, TAN); Analamazaotra RS, 18°49'32"S 48°26'04"E, 941 m, 3.V.2010, *Hong-Wa & Ortiz* 663 (MO, P, TAN); Ambatovy, 18°51'17"S 48°19'02"E, 1117 m, 8.IX.2008, *Miandrimanana et al.* 320 (G, MO, P, TAN); *ibid. loc.*, 18°51'48"S 48°18'26"E, 1022 m, 27.I.2008, *Phillipson & Antilahimena* 6094 (G, MO); Moramanga, Antanambao, Analamay, 18°49'26"S 48°20'16"E, 1000 m, 26.I.1997, *Rakotomalaza et al.* 998 (MO, P); *ibid. loc.*, 18°51'22"S 48°19'34"E, 1080 m, 29.VI.1997, *Rakotomalaza et al.* 1364 (G, MO, TAN); Ambatovy, 18°51'08"S 48°17'48"E, 1127 m, 16.II.2005, *Rakotovoao et al.* 1191 (G, MO, P, TAN); Zahamena RNI, à 1 km au S du village d'Antenina, 17°30'30"S 48°46'15"E, 900 m, 13.VIII.1994, *Randrianjanaka & Zafy* 190A (G, K, MO, P, TAN); Manakambahiny-Est, Zahamena RNI, 17°40'17"S 48°45'13"E, 1350 m, 16.IX.2002, *S. Randrianasolo et al.* 304 (G, MO, P, TEF); *ibid. loc.*, 17°40'17"S 48°45'13"E, 1350 m, 16.IX.2002, *S. Randrianasolo et al.* 307 (G, MO, P, TEF); Brickaville, Maroseranana, Ambodilendemy, 18°25'57"S 48°46'52"E, 727 m, 14.III.2011, *Ravelonarivo & Edmond* 3645 (G, MO, P, TAN); *ibid. loc.*, 18°25'24"S 48°47'06"E, 896 m, 22.III.2011, *Ravelonarivo et al.* 3787 (G, MO, P, TAN); Analamay, 18°50'49"S 48°18'30"E, 1124 m, 10.II.2005, *Razafindraibe & Antilahimena* 76 (MO, P, TAN).