

Zeitschrift:	Boissiera : mémoires de botanique systématique
Herausgeber:	Conservatoire et Jardin Botaniques de la Ville de Genève
Band:	70 (2016)
Artikel:	A taxonomic revision of the genus Noronhia Stadtm. ex Thouars (Oleaceae) in Madagascar and the Comoro Islands
Autor:	Hong-Wa, Cynthia
Kapitel:	38: Noronhia introversa
DOI:	https://doi.org/10.5169/seals-1036126

Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

Download PDF: 11.08.2025

ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>

38. *Noronhia introversa* H. Perrier in Mém. Inst. Sci. Madagascar, Sér. B, Biol. Vég. 2: 295. 1949.

Typus: MADAGASCAR. Prov. Toamasina: Forêt d'Analamazaotra, [18°56'S 48°26'E], 1934, Ursch 46 (holo-: P [P00418117]!).

Description Trees to 12 m tall, trunk to 15 cm diameter; young twigs cylindrical, 1.3-3.7 mm diameter, glabrous; bark white, sometimes very light gray, smooth. Leaves opposite, persistent; bud scales persistent; blades dark to medium green above, lighter below, oblong to elliptic, 7-27 × 2-7.5 cm, subcoriaceous, glabrous, domatia casual, base acute, margin slightly revolute and undulate, apex acute to acuminate, the acumen 1-20 mm long, midrib sunken above, distinctly raised below, secondary veins conspicuous, 7-16 per side, 8-26 mm apart, looping 2-8 mm from the margin; petiole light gray to white, 5-22 × 1.5-7 mm, entirely woody, glabrous. Thyrses fasciculate, pauciflorous, compact; peduncle 5-17 mm long, moderately pubescent; pedicel 5-10 mm long, moderately pubescent; calyx moderately pubescent outside, glabrous inside, lobes triangular, 1.5-3 × 1.2-2.5 mm; corolla pink, sometimes tinged orange-red, oblong to slightly campanulate, 3.5-8 mm long, glabrous on both sides, the tube 2-6 mm long, lobes deltate apex obtuse; corona absent; stamens 1.5-2.5 mm long, anthers obconical, 1-1.5 mm long; pistil 1.5-2.8 mm long, stigma bilobed. Fruiting pedicel 8-18 × 1.3-2.5 mm; young fruits green, dark red when mature, ovoid to subglobose, 13-27 × 10-25 mm, surface smooth, apex apiculate; dry pericarp 0.3-2.6 mm thick; endocarp woody; seed 11-18 × 9.5-13 mm.

Distribution, ecology and phenology

Noronhia introversa occurs in low- to high-elevation humid forests from the Masoala peninsula in the north to Midongy du Sud in the south (Fig. 27). It produces flowers and fruits from June to February.

Conservation status

Twenty-four collections representing 22 localities were available for the assessment, which resulted in an EOO of 49,227 km², an AOO of 88 km², and 16 subpopulations representing 13 locations, of which 10 occur within protected areas (Analamazaotra, Betampona, Corridor Ankeniheny-Zahamena, Mananara-Nord, Makira, Mantadia, Masoala, Midongy du Sud, Ranomafana, and Zahamena). With an actual AOO likely much larger than 2,000 km² and many locations scattered within a large EOO, *N. introversa* is assigned a preliminary status of “Least Concern”.

Notes

Noronhia introversa can be recognized by its whitish bark, subcoriaceous leaf blades, and pink to red flowers that lack a corona. It differs from *N. grandifolia* by the color of its bark (white to light gray vs. light brown) and flowers (pink tinged orange-red vs. purplish tinged yellow), the shape of its corolla (oblong to campanulate vs. subrotate), and the texture of its endocarp (woody vs. crustaceous).

Additional specimens examined

MADAGASCAR. **Prov. Fianarantsoa:** Ranomafana PN, Parcelle 1, Ambatoharanana, 21°16'S 47°27'E, 800-1000 m, 28.XII.1993, Kotozafy 444 (G, K, MO, P); *ibid. loc.*, 21°16'S 47°26'E, 980 m, 5.XII.1994, Kotozafy & Rasabo 860 (K, MO, P, TAN); Befotaka-Midongy PN, 23°44'01"S 47°01'50"E, 714 m, 23.IX.2005, Rakotovao *et al.* 2286 (MO, TAN); Andrambovato, Parcelle B4, [21°31'S 47°25'E], 878-1000 m, 10.VI.1954, Service Forestier 14413 (MO, P, TEF). **Prov. Toamasina:** Nosy Mangabe, 15°29'49"S 49°45'20"E, 0-320 m, 5.XII.1998, Abdul-Salim *et al.* 30 (MO); Maroantssetra, Ambinanitelo, Marovovonana, 15°19'34"S 49°31'15"E, 298 m, 29.VIII.2004, Antilahimena 2628 (MO, P); Mananara, Anandrivola, Antsiraben'i Ariena, Ambitsy forest, 15°51'49"S 49°30'35"E, 659 m, 27.VII.2007, Antilahimena 5738 (MO, P, TAN); Andasibe-Mantadia PN, 18°50'16"S 48°25'54"E, 810 m, 20.VI.1996, Birkinshaw *et al.* 301 (G, MO, P); Analamazaotra RS, 18°56'S 48°25'E, 100 m, 5.XI.1985, Dorr 4344 (MO, P, TAN); Mananara-Nord, Ivontaka-Sud, 16°20'S 49°48"E, 150 m, 22.XI.1989, Dumetz 1026 (MO); Analamazaotra RS, 18°49'32"S 48°26'04"E, 941 m, 3.V.2010, Hong-Wa & Ortiz 656 (MO, TAN); Ambatovy, forêt d'Ambatomainty, 18°52'37"S 48°17'04"E, 1028 m, 2.6.II.2010, Ravelonarivo *et al.* 3385 (MO, P, TAN); Maintimbato - Fénérive, 14.XII.1955, Réserves Naturelles 7772 (MO, P, TEF); Nosy Mangabe, 15°30'S 49°06"E, 0-330 m, 13-19.XII.1989, Schatz 2846 (MO, P, TAN); Soanierana-Ivongo, [16°54'S 49°35'E], 27.XII.1949, Service Forestier 2494 (P, TAN, TEF); Masoala Peninsula, Ambanizana, 15°40'24"S 49°57'51"E, 110-260 m, 25.XI.1994, Vasey & Velo 138 (MO, P, TAN).