

Abrahamia sericea

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30. *Abrahamia sericea* (Engl.) Randrian. & Lowry, **comb. nova** (Fig. 27).

≡ *Protorhus sericea* Engl. in Bot. Jahrb. Syst. 1: 421. 1881.

Typus: MADAGASCAR: *sine loco*, s.d., y. fr., Thouars s.n. (holo-: P [P00580351]!).

Description

Trees 5-25 m tall, 11-50 cm DBH, bark with white or translucent latex; young twigs ferruginous-pubescent or with short, yellow indument, lenticellate, waxy. *Leaves* alternate or subopposite, sometimes verticillate; blades oblanceolate to obovate, sometimes obovate, 5-15.8 × 2.7-4.5 cm, subcoriaceous, apex emarginate, retuse or shortly acuminate, sometimes truncate, margin entire, base acute or cuneate, adaxial surface glabrous, abaxial surface pubescent when young, later glabrescent, venation craspedodromous, midvein prominent abaxially, secondary veins 40-70 pairs, more or less parallel, 0.5-3 mm apart, prominent on both surfaces, tertiary veins raised on adaxial surface; petiole 8-20 mm long, canaliculate on adaxial surface and very often flattened at base, pubescent when young, glabrescent. *Inflorescence* terminal, sometimes axillary, a panicle or thyrses, 5-10 cm long, the axes flattened, covered with yellowish, ferruginous strigose indument. *Male and female flowers* 5- or 6-merous; pedicel 0-0.3 mm long, strigose or pubescent; calyx lobes deltate or narrowly deltate, 1-1.2 × 1-1.5 mm, imbricate, rarely valvate, adaxial surface glabrous, abaxial surface pubescent or ferruginous, persistent on fruit; corolla lobes ovate, 2-3 × 1-1.8 mm, imbricate or quincuncial, adaxial surface glabrous, abaxial surface pubescent; stamens 5 or 6. *Male flowers* with filaments 1-1.5 mm long, glabrous, anthers 0.8-1 mm long, ovoid, glabrous; disk 1-2 mm in diam., pubescent; ovary rudimentary. *Female flowers* with filaments c. 1 mm long, glabrous, anthers 0.2-0.5 mm long, ovoid, sterile, glabrous; disk 1.5-2 mm in diam., pubescent; ovary very widely ovoid, 1-1.5 × 1-1.5 mm, covered with sericeous indument, placentation subapical; style very shortly trifid (apparently simple), apical, 0.5-1 mm long, pubescent, stigmas capitate. *Fruits* 2-3 × 0.8-1.5 cm, ellipsoid, slightly asymmetrical, velutinous, with longitudinal striations.

Vernacular names

“Ditimena”, “Hazombarorana”, “Rodrano” (Tanala), “Sandramy”, “Sosoka”, “Tsimalazo”, “Varoa”, “Vodihazo” (Tanala).

Distribution, ecology and phenology

Abrahamia sericea occurs in eastern humid domain forest, extending from coastal areas to the escarpment (Map 8), where it can reach 800-1200 m elevation. It flowers from September through December, and sets fruit from December until May.

Conservation status

With an EOO of 178,062 km², a minimum AOO of 236 km², and 64 known localities, with subpopulations in numerous protected areas, *A. sericea* is assigned a preliminary conservation status of “Least Concern” [LC] using the IUCN Red List Categories and Criteria (IUCN, 2012).





Notes *Abrahamia sericea* and *A. grandidieri* are distinctive within the genus in having very closely spaced, parallel secondary veins, but *A. sericea* differs by the presence of indument on its disk and ovary, a character absent in *A. grandidieri* but shared with another species, *A. thouvenotii*, which, however, has very widely spaced, arcuate secondary veins.

Additional material examined

MADAGASCAR. Prov. Antsiranana: Rég. Diana, Tsaratanana RNI, Mandrizavona village, 13°52'33"S 48°48'44"E, 700 m, 27.III.2000, fr., *Antilahimena et al.* 429 (G, K, MO, NY, P, TAN); Ambodimanga Ramena, Tsaratanana Reserve, 13°52'37"S 48°51'02"E, 547 m, 15.XI.2001, y. fr., *Antilahimena et al.* 817 (G, K, MO, P, TAN); Antalaha, forêt littorale Ambodipont, Masoala PN, 15°44'45"S 50°19'25"E, 3.X.1996, bud, *Bernard* 360 (MO, P, TAN); Ambodimanga, Antsahabe, 13°49'30"S 48°46'59"E, 500 m, 7.X.1998, fl., *Birkinshaw et al.* 527 (MO, P, TAN); Manongarivo RS, bras gauche de l'Ambatra, 13°59'S 48°26'E, 470 m, 5.VI.2000, old fr., *Gautier et al.* 3751 (G, MO, P, TAN); vallée de la Lokoho, [14°26'S 49°49'E], 75 m, 13.XII.1948, bud, *Humbert* 22383 (G, MO, P); Sambava, vallée de l'Andalangy, [14°18'S 49°43'E], 200-800 m, 12-14.XI.1950, bud & fl., *Humbert* 24164 (MO, P); Ambilobe, massif de Marivorahona au SW de Manambato, [13°46'40"S 48°59'30"E], 1750-2000 m, 18-26.III.1951, fr., *Humbert* 25713 (MO, P); E of Ankaramy, Manongarivo RS, Antsatrotro, 14°05'S 48°23'E, 600-900 m, 26-30.III.1993, fr., *Malcomber et al.* 2291 (G, K, MO, NY, P, TAN); Sambirano, forêt de l'Ankaizina, [14°30'S 48°55'E], 1000 m, VII.1908, bud, *Perrier de la Bâthie* 5859 (P [2 sheets]); Antalaha, Tampolo, 2 km S of Befotaka, 14°44'S 50°13'E, 27.I.2007, fr., *Ranarivelo* 1255 (CAS, G, MO); Ambodimanga-Ramena, le long de la piste vers Antsaharatsy, 13°48'33"S 48°45'07"E, 460 m, 18.IV.2000, y. fr. & fr., *Ratovoson* 236 (P); Masoala PN, Ambohitralanana, [15°33'S 50°07'E], 24.I.1953, fl., *Réserves Naturelles* 4942 (P, TEF); Masoala PN, Ampanavoana, [15°33'S 50°07'E], 6.XII.1954, fl., *Réserves Naturelles* 6808 (P [2 sheets], TEF); bord d'un affluent de l'Andalangy, Sambava, [14°18'S 49°43'E], 350 m, 12.XII.1950, bud, *Service Forestier* 810 (MO, P [3 sheets], TEF); Masoala PN, Ambohitralanana, 15°33'S 50°07'E, 10.II.1954, fl., *Réserves Naturelles* 6618 (P, TEF); massif du Marivorahona, Ankijabe, [13°46'40"S 49°00'00"E], 1050 m, 26.III.1951, fr., *Service Forestier* 3070 (P [2 sheets], TEF); Tsiroanimandidy-Ambanja, [13°52'30"S 48°21'00"E], 200 m, 26.IX.1952, fl., *Service Forestier* 6113 (P [3 sheets], TEF); Andrambavato, [14°15'00"S 50°01'30"E], 100 m, 26.XI.1954, fl., *Service Forestier* 12232 (P [2 sheets], TEF); forêt de Betafononana, Maromandia, [14°53'S 50°16'E], 0-50m, 16.XI.1954, fl., *Service Forestier* 12449 (P, TEF); Ambohitralanana, Antalaha, [former Masoala RN], [15°33'S 50°07'E], 0-50 m, 23.X.1956, fl., *Service Forestier* 17438 [= *Réserves Naturelles* 8592] (P, TEF). **Prov. Fianarantsoa:** Fort-Carnot, [21°51'30"S 47°26'30"E], 1986, bud, *Beaujard* 12 (P); Rég. Tanala, [21°51'S 47°26'E], 1994, ster., *Beaujard* 441 (P); Mananjary, entre les bassins du Matilana et du Mananjary, [22°26'S 47°55'E], 800 m, X.1911, fl., *Perrier de la Bâthie* 5851 (P [2 sheets]); Vohipeno, Ampasina-Marzoala, [22°21'S 48°11'E], 0-100 m, 20.X.1952, bud & fl., *Service Forestier* 6431 (P [2 sheets], TEF); Sahavana, Ft. Carnot, [21°51'30"S 47°26'30"E], 23.XII.1952, fr., *Service Forestier* 6664 (P, TEF); Vangaindrano, Vohipaho, [23°33'30"S 47°30'30"E], 10 m, 15.XI.1952, fl., *Service Forestier* 7107 (MO, P, TEF); Tolongoina, Mandriandry, [21°34'30"S 47°31'00"E], 500 m,



Fig. 27.
Abrahamia sericea (Engl.) Randrian. & Lowry.
Branch with fruits, from below [Razanatsima et al. 1442].

Photo: A. Razanatsima

28.IX.1952, bud, *Service Forestier 7113* (P, TEF); Maromiandra, Manampatroana, [21°41'S 47°31'E], 300 m, 29.XI.1952, bud, *Service Forestier 7150* (P, TEF); Nosy Varika, Nosiarivo, [20°30'30"S 48°00'00"E], 500 m, 28.I.1953, fr., *Service Forestier 7302* (P, TEF); rive droite de Sahanana Ampasinambo, [20°31'S 48°00'E], 530 m, 14.XI.1953, bud & fl., *Service Forestier 9955* (P, TEF); Sakahana, Tolongoina, Ft. Carnot, [21°31'30"S 47°45'30"E], 878-1000 m, 17.XI.1954, fl., *Service Forestier 13653* (P, TEF); Sahavana, Ft. Carnot, [21°51'30"S 47°26'30"E], 31.XI.1954, fl., *Service Forestier 14511* (P, TEF); Ambalangavo, Vohipeno, [22°21'S 47°40'E], 0-100 m, 15.X.1954, fr., *Service Forestier 14929* (MO, P, TEF). **Prov. Toamasina:** Moramanga, Analamazaotra, 18°55'11"S 48°25'17"E, 100-1200 m, 28.II.2000, fr., *Andrianjafy 27* (MO, P, TAN); Vavatenina, Manakambahiny I, 17°39'07"S 48°58'14"E, 550-600 m, 21.X.2002, bud, *Andrianjafy et al. 293* (CNARP, MO, P, TAN); Maroantsetra, Rantabe, Mafaipoza, 15°39'24"S 49°34'53"E, 80 m, 21.II.2002, fr., *Antilahimena 872* (G, MO, P, TAN); Maroantsetra, along Andramofotsy river, 15°07'30"S 49°49'13"E, 99 m, 6.XI.2003, bud, *Antilahimena et al. 2264* (G, K, MO, P, TAN); Toamasina II, Fotsimavo, Ambodiriana, [17°55'S 49°13'E], 300-400 m, XII.1962, fr., *Bosser 16913* (MO, P, TAN); Nosy Mangabe, 15°29'S 49°45'E, 15 m, IV.1990, ster., *Carlson 149* (MO); *ibid loco*, *Carlson 195* (MO); Ambatondrazaka, Ampitanonoka à Fotsialanana, [17°46'S 48°54'E], 1200 m, 19.I.1945, fr., *Cours 2465* (MO, P); Brickaville, itinéraire de Didy, [18°07'00"S 48°32'40"E], 100-1100 m, bud, *Cours 4907* (P [4 sheets]); Moramanga, PK 163-164, W of Andasibe (Périnet), [18°56'S 47°57'E], 1105 m, 19.I.1986, fr., *Dorr et al. 4582* (MO, P, TAN); forêt d'Analamazaotra, [18°55'S 48°25'E], 1000 m, fl., *Louvel 3* (P); Andasibe, Mantadia NP, [18°49'30"S 48°28'00"E], 930-1040 m, 10.I.2003, y. fr., *Pell et al. 621* (MO, NY, P, TAN); forêt d'Analamazotra, [18°55'48"S 48°25'48"E], s.d., fl. & fr., *Perrier de la Bâthie 3* (P); bords des rivières, Ambatovola, [18°53'S 48°34'E], I.1928, fr., *Perrier de la Bâthie 18365* (P [2 sheets]); Zahamena PN, entre rivières Laindrotra et Saharahara, 17°45'34"S 48°42'04"E, 900 m, 9.III.1990, fr., *Rakotondrajaona 168* (MO, P, TAN); Analamazaotra RS, 18°56'S 48°26'E, 960 m, 15.VII.1996, ster., *A. Randrianasolo 404* (MO, P, TAN); Tampolo forestry station, 17°17'S 49°23'E, 5 m, I.VIII.1996, ster., *A. Randrianasolo 468* (MO, P); Analamazaotra RS, 18°56'S 48°26'E, c. 900 m, 28.X.1996, bud, *A. Randrianasolo 513* (G, K, MO, NY, P, TAN); Mantadia PN, c. 11 km N of village of Andasibe, 18°49'47"S 48°25'56"E, 939 m, 10.I.2003, ster., *A. Randrianasolo 783* (MO, P, TEF); Vatomandry, Ambalabe, N of Marotoho, 19°10'19"S 48°37'26"E, 367 m, 26.XI.2004, y. fr., *A. Randrianasolo et al. 969* (G, K, MO, NY, P, TAN, WAG); Ambalabe, Antsofotra forest, 1 km NW of Mahatsara village, 19°13'48"S 48°37'57"E, 226 m, 3.II.2011, ster., *A. Randrianasolo 1341* (G, K, MO, P, TAN); Manakambahiny-Est, Amparafarabe, Zahamena PN, 17°43'42"S 48°40'27"E, 875 m, 2.XI.2001, fl., *S. Randrianasolo et al. 251* (CNARP, MO, P, TAN, TEF); Ambatovy, Andranoverly, 18°51'51"S 48°18'49"E, 1005 m, 14.II.2008, ster., *S. Randrianasolo et al. 670* (MO, P, TAN); Manakambahiny-Est, Zahamena PN, forêt Alaindrotra, 17°45'07"S 48°43'01"E, 2.III.2001, fr., *Randrianjanaka et al. 595* (CNARP, MO, P, TAN, TEF); Zahamena PN, W de Mitanonoka, 17°45'53"S 48°54'01"E, 606 m, 26.XI.2001, fl., *Randrianjanaka et al. 654* (CNARP, G, MO, NY, P, TAN, TEF); Maroseranana, bord d'Iampanga, 18°23'53"S 48°49'50"E, 554 m, 3.II.2012, fr., *Ravelonarivo et al. 4323* (MO, P,

TAN); Ambalabe, forêt de Vohibe, 19°09'31"S 48°34'40"E, 536 m, 19.II.2009, ster., *Razanatsima et al.* 660 (G, MO, P, TAN); Ambendrantsara, Manakambahiny-Est, [17°46'S 48°39'E], 750-1512 m, 29.III.1949, fr., *Réserves Naturelles* 1923 (P, TAN); Zahamena PN, Mangabe, 15.II.1952, fr., *Réserves Naturelles* 3728 (P); Toamasina I, Zahamena PN, Ampasimalaza, [17°42'S 48°54'E], 22.V.1952, fr., *Réserves Naturelles* 3732 (P [2 sheets]); Ambodiriana, Tamatave, [Betampona RN], [17°56'S 49°17'E], 20.XI.1960, fr., *Réserves Naturelles* 11656 (P [2 sheets], TEF); Nosy Mangabe, 15°30'S 49°46'E, 0-330 m, 12-23.IV.1988, ster., *Schatz et al.* 2131 (MO, TAN); *ibid. loco*, fl., *Schatz et al.* 2492 (MO, P, TAN); *ibid. loco*, 23-28.II.1989, fr., *Schatz* 2639 (MO, P, TAN); Analamazaotra, [18°56'S 48°26'E], 1000 m, 21.III.1949, fr., *Service Forestier* 561 (P, TEF); *ibid. loco*, 3.IV.1957, fr., *Service Forestier* 3723 (P, TEF); bords d'un cours d'eau entre Amboditavolo et le col d'Antandrokolaka, [15°46'S 49°32'E], 350 m, 13.II.1954, fr., *Service Forestier* 9015 (MO, P, TEF); Andriantantely, [18°44'S 48°38'E], 200-300 m, 19.X.1954, bud, *Service Forestier* 12620 (P, TEF); Farankaraina, Maroantsetra, [15°25'S 49°52'E], 20-25 m, 2.IV.1955, fr., *Service Forestier* 14361 (P [2 sheets], TEF); Fénérive-Est, Ambodiampana, [17°03'S 49°21'E], 100 m, 16.X.1955, bud, *Service Forestier* 15645 (P, TEF); forêt d'Analamazaotra, [18°56'S 48°26'E], 6.XI.1957, fl., *Service Forestier* 18397 (MO, P, TEF); *ibid. loco*, 1000 m, 22.IX.1966, ster., *Service Forestier* 26018 (P); canton Manakambahiny-Est, Mandrivo Morafeno, [17°46'S 48°39'E], 1000 m, 9.II.1967, fr., *Service Forestier* 26286 (P, TEF). **Prov. Toliara:** Commune d'Enaniliha, forêt entre Eminiminy et le pic Trafonaomby, Andohahela PN, parcelle 1, 24°38'03"S 46°45'56"E, 445 m, 25.X.2009, fl., *Bernard et al.* 1474 (MO, P, TAN); Ampitanonoka à Fotsialana, [17°46'S 48°54'E], 1200 m, 19.I.1945, fr., *Homolle* 2465 (P); Andohahela PN, parcelle 1, NW of Eminiminy, 24°38'S 46°46'E, 500-1000 m, 6-13.II.1993, fr., *Malcomber et al.* 2174 (G, K, MO, NY, P, TAN, WAG); Andohahela PN, parcelle 1, 24°37'33"S 46°45'55"E, 440 m, 25.X.1995, fl., *Rakotomalaza et al.* 471 (G, K, MO, NY, P, TAN); PN Andohahela, parcelle 1, à proximité d'Eminiminy, 24°40'S 46°48', 200-700 m, 13-25.I.1993, fr., *Randriamampionona* 37 (MO, P, TAN); Commune Emagnobo, Malamamay, [24°36'27"S 47°00'52"E], 20.X.2016, fl., *A. Randrianasolo* 1665 (G, K, MO, NY, P, TAN); Commune Bevoay, forêt Mahabo, 24°30'00"S 47°05'14"E, 144 m, 18.XI.2009, fl. & bud, *Razakamalala* 4706 (G, MO, P, TAN); Commune Bevoay, Androangabe, forêt d'Ampitanitanony, [24°30'39"S 47°05'08"E], 238 m, 12.I.2016, fr., *Razanatsima et al.* 1442 (MO, P, TAN).