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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 translucid 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 thyrsoid, 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'Ambaratra, 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); Andrambamato, [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-Maroala, [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); Maromandra, 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 Sahana Ampasinambo, [20°31'S 48°00'E], 530 m, 14.XI.1953, bud & fl., *Service Forestier* 9955 (P, TEF); Sakhana, 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 Andramafotsy 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], 1.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, 1.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, Andranover, 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).