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**Autor:** Randrianasolo, Armand / Lowry, Porter P. / Schatz, George E.  
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**34. *Abrahamia viguieri*** (H. Perrier) Randrian. & Lowry, **comb. nova.**

≡ *Protorhus viguieri* H. Perrier in Mém. Mus. Natl. Hist. Nat. 18: 262. 1944.

**Lectotypus** (designated here): **MADAGASCAR. Prov. Toamasina:** Rég. Alaotra-Mangoro, Moramanga, forêt d'Analamazaotra, [18°56'S 48°26'E], 1000 m, 19.X.1912, fl., *Humbert & Viguier 815* (P [P00580348]!; iso-: K, MO-6684877!, P [P00580349, P02141537, P06242027]!).

**Description**

*Trees* 2-25 m tall, 10-15 cm DBH; young twigs lanate. *Leaves* alternate, sometimes verticillate; blades oblanceolate, 8-30 × 2-6 cm, chartaceous, apex acuminate, margin slightly revolute, base acute or cuneate, adaxial surface lanate, abaxial surface pubescent or lanate only on midvein, venation craspedodromous, midvein prominent abaxially, secondary veins 30-40 pairs, 2-15 mm apart, prominent abaxially, tertiary veins visible on both surfaces; petiole 5-20 mm long, canaliculate on adaxial surface, lanate. *Inflorescence* axillary, a panicle, 3-11 cm long, axes terete, villous or lanate. *Male and female flowers* 5-merous, glabrous; pedicel 0.2-0.3 mm long, villous; calyx lobes triangular, 0.5 × 0.5-0.7 mm, imbricate, adaxial surface glabrous, abaxial surface pubescent to lanate, persistent on fruit; corolla lobes ovate, 2 × 1 mm, imbricate or quincuncial, adaxial surface glabrous, abaxial surface pubescent on the longitudinal main axis; stamens 5; disk c. 1-1.2 mm in diam., pubescent. *Male flowers* with filaments 1.5 mm long, anthers 0.5 mm long, ovoid to subglobose, yellow, glabrous; ovary completely absent. *Female flowers* with filaments 0.5-0.7 mm long, anthers 0.3-0.5 mm long, ovoid, sterile, yellow, glabrous; ovary widely depressed ovate, 1-1.2 × 0.8-1 mm, glabrous, placentation subapical, style simple (or with a minute trace of division), apically inserted, 0.5-0.7 mm long, glabrous; stigma 4-lobed, capitate. *Fruits* 3 × 1.5 cm, ellipsoidal, symmetrical or very slightly asymmetrical, glabrous, with longitudinal striations.

**Etymology**

The species is dedicated to Dan Turk, a forest botanist who has contributed tremendously to our knowledge of the trees of Ranomafana National Park.

**Vernacular names**

“Lambafohala”, “Natoboka”, “Sefana”, “Tsitsebona”.

**Distribution, ecology and phenology**

*Abrahamia viguieri* ranges from east coast humid littoral forests on sand and laterite at low elevation to premontane forests along the eastern escarpment at an elevation of up to c. 900 m (Map 9). Material has been collected with flowers in October and November; very young fruits have been recorded in December and mature fruits in late February.

**Conservation status** With an EOO of 28,641 km<sup>2</sup>, a minimum AOO of 60 km<sup>2</sup>, and 17 localities, with subpopulations in six protected areas (Ambalabe, Analalava, Betampona, Makira, Analamazaotra, and Zahamena), *A. viguieri* is assigned a preliminary conservation status of “Least Concern” [LC] using the IUCN Red List Categories and Criteria (IUCN, 2012).

**Notes** *Abrahamia viguieri* is easily distinguished from other members of the genus by the lanate upper surface of its leaves and its male flowers with a pubescent disk and completely lacking even a rudimentary or vestigial ovary.

PERRIER DE LA BÂTHIE (1944) cited two collections in the protologue of *Protorhus viguieri*, one with male flowers (*Humbert & Viguier 815*) and the other with fruits (*Perrier de la Bâthie 4387*, erroneously cited as 4397). We have selected a specimen of *Humbert & Viguier 815* as the lectotype because it is the best preserved among the syntypes and because an isolectotype was available for distribution to MO.

**Additional material examined**

**MADAGASCAR. Prov. Fianarantsoa:** Fort Carnot, exploitation Charlier, [21°51'30"S 47°26'30"E], 23.II.1954, fr., *Service Forestier 14652* (MO, P, TEF). **Prov. Toamasina:** Vatoman-dry, Ambalabe, Ambinanindrano II, forêt de Vohibe, Sahamanahirana, 19°09'32"S 48°34'39"E, 635 m, 28.X.2012, bud & fl., *Andriamiarinoro 304* (MO, P, TAN); Brickaville, Sahatsara, 18°26'23"S 48°49'40"E, 698 m, 28.X.2005, fl., *Andriamihajarivo et al. 620* (MO, P, TAN, TEF); Brickaville, Anivorano-Sud, Ankerana, 18°26'03"S 48°49'53"E, 575 m, 31.X.2005, bud, *Andriantiana 297* (P, MO, TAN); Maroantsetra, Rantabe, Behovana village, 15°47'34"S 49°32'45"E, 521 m, 31.X.2003, fl., *Antilahimena 2237* (G, K, MO, NY, P, TAN, WAG); Brickaville, Didy à Brickaville, [18°07'S 48°32'E], s.d., fl., *Cours 4823* (MO, P [3 sheets]); Moramanga, station forestière d'Andasibe, [18°56'S 48°26'E], 900 m, 8.XII.1989, bud & fl., *Evrard 11232* (P, TAN); Betampona RN, 17°31'S 49°07'E, 275-650 m, 26.IX.1993, bud, *Lewis et al. 619* (G, K, MO [2 sheets], NY, P, TAN, WAG); forêt d'Analamazaotra, [18°55'48"S 48°25'48"E], 800 m, s.d., fr., *Perrier de la Bâthie 4387* (P); Zahamena PN, NE à partir de la rivière de Moango, 17°33'49"S 48°54'01"E, 794 m, 20.X.2000, fl., *Rakotonandrasana et al. 441* (CNARP, MO, P, TAN); Vavatenina, Zahamena PN, Besakay, 17°39'20"S 48°54'22"E, 780 m, 7.X.2001, bud, *Rakotonandrasana et al. 573* (CNARP, MO, P, TAN); Analamazaotra RS, along the Indri trail, about 300 m from observation point, 18°56'12"S 48°25'10"E, 1000 m, 10.I.2003, ster., *A. Randrianasolo 776* (MO, TEF); Fotsimavo, canton Tamatave, [17°56'S 49°13'E], 10.XI.1955, bud & fl., *Réserves Naturelles 7712* (MO, P, TEF); Ambodiriana, [17°55'S 49°13'E], 100-200 m, 12.IV.1959, bud, *Réserves Naturelles 10847* (MO, P); Sahatavy, [Zahamena PN], [17°38'S 48°50'E], 750-1912 m, 18.X.1960, bud, *Réserves Naturelles 11360* (MO, P [2 sheets], TEF); Fénériver-Est, forêt d'Analalava, Foulpointe, [17°42'S 49°29'E], 0-50 m, 30.X.1963, bud & fl., *Service Forestier 22781* (P, TEF); Ambatonandrohina, Sahatavy, [17°27'S 49°00'E], 13.X.1966, bud & fl., *Service Forestier 26261* (P, TEF).