Figure 10. *Aphelandra wendtii* (a-d) and *A. gigantiflora* (e-i). a. Habit, ×0.5 (based on Breedlove 47343 and 28856); b, Bract, ×1.1 (Breedlove 47343); c, Flower with one bractlet, ×0.8 (Breedlove 52540); d, Distal portion of style with stigma, ×9 (Breedlove 22247); e, Spike, ×0.9 (Breedlove & Almeda 60161); f, Spike rachis, ×2.5 (Breedlove & Almeda 60161); g, Stamen, ×3.8 (Croat 46289); h, Distal portion of style with stigma, ×11 (Croat 46289); i, Calyx, capsule, and seed, ×1.8 (Croat 46289). Drawn by Mary Ann Tenorio.
Pedro, D. Breedlove & F. Almeda 60706 (CAS, US); 9 mi N of Compostela, R. McVaugh & W. Koels 532 (MICH); 10 mi SE of Ahuacatlan on rd. to Barranca del Oro and Atalán, R. McVaugh & W. Koels 758 (MICH); Mpio. Valle de Banderas, 1 km N de El Cuanante, J. Rzedowski 17871 (MICH). Sinaloa: along Hwy. 10, 40. 25.5 mi E of Concordia, D. Breedlove 4241 (DS, DUKE, MICH); Sierra Tauciachama, Africa, H. Gentry 5655 (ARIZ); Mpio. Cosalá, Mineral de Nuestra Señora, F. Hernández A. & J. Hernández V. 513 (MEXU); Sierra de Pinal, just E of El Espinal, M. Kimmich & H. Sanchez M. 2261 (CAS, US); Sierra Madre, cañón near Santa Lucía, Y. Mexia 421 (CAS, UC); Mpio. San Ignacio, Balboa, J. Ortega 1161 (MEXU), 5023 (US); Sierra Madre Occidental, along Hwy. 40, 0.6 mi above El Cantil and 21 mi NE of Concordia, A. Sanders et al. 4573 (ARIZ, CAS, UCR); Mpio. Cuitlácuán, entre Sanalona y Los Mayos, rumbo a Tamaulipa, R. Vega & F. Hernández 2260 (MEXU).

7. Aphelandra wendtii T. F. Daniel, sp. nov. (Fig. 10).


Frutex usque ad 3 m altus. Folia opposita, laminae ovatae-ellipticae vel ellipticae basi in petiolum decurrentes. Spicae plurumque subcapitatae (raro elongatae) 40–65 mm diametro ad medium. Bracteae virides lanceolatae vel ligulatae 28–58(–65) mm longae 5–12 mm latae 5–11–plio longiores quam latiores apice sensim attenuantes patentes vel reflexae margine plerumque dentate, pagina abaxialis pubescens trichomatibus glandulosis et vel eglandulosis vel fere glabrata. Corolla rubra 55–74 mm longa extus glandulosa, labium inferum lobis lateraliibus obovatis vel ellipticos 17–25 mm longis 5–7.5 mm latis lobo centrali obovato vel elliptico vel subcirculares lobis lateraliibus 1.1–1.4–plio longiori et 2–2.5–plio latiore. Thecae 6.5–8.1 mm longae pubescentes. Stigma infundibuliforme 0.2–0.3 mm longum. Capsula ignota.

Branched shrub to 3 m tall. Young stems terete to quadrate, sparsely pubescent with (flexuoso to) antrorse to antrorse-appressed eglandular trichomes 0.4–1 mm long, soon glabrate. Leaves opposite, petiolate, petioles to 95 mm long (naked portion to 40 mm long), blades ovate-elliptic to elliptic, 120–280 mm long, 34–100 mm wide, 1.9–5.6 times longer than wide, acuminate to subfuscate at apex, gradually to somewhat abruptly attenuate-decurrent (often to node at base, surfaces sparsely pubescent with cauline type trichomes to glabrate, margin entire to sinuate-crenate. Spikes terminal, subcapitate (rarely elongate), to 70(–180) mm long (excluding flowers), 40–80 mm in diameter (excluding flowers) near midspike, rachis pubescent with antrorse eglandular trichomes to 1 mm long. Bracts green, lanceolate to strap-shaped, 28–58(–65) mm long, 5–12 mm wide, 5–11 times longer than wide, distal portion conspicuously spreading or reflexed, gradually attenuate at apex, abaxial surface pubescent with flexuoso to antrorse-appressed eglandular trichomes to 1 mm long and sometimes with straight to flexuoso, shorter, glandular trichomes or nearly glabrate, margin ciliate with trichomes like those of abaxial surface, dentate with 1(–2) teeth (sometimes obscure or absent) per side, teeth 0.2–3(–4.5) mm long. Bractlets subulate to lance-subulate, 9.5–16 mm long, 0.5–1.5 mm wide, apically aristate, pubescent like bracts. Calyx 11–16.5 mm long, lobes lanceolate, 2–3.5 mm wide at base, attenuate to subaristate at apex, abaxial surface pubescent with antrorse eglandular trichomes to 0.3 mm long. Corolla red, 55–74 mm long, externally pubescent with glandular and eglandular trichomes to 1.5 mm long, upper lip 20–32 mm long, entire to emarginate with rounded lobes 1–2.5 mm long to irregularly toothed with 1–2 coarse teeth along distal margin at apex, margin flared to reflexed proximally, lower lip ± perpendicular to upper lip, 17–35 mm long, lateral lobes obovate to elliptic, 17–25 mm long, 5–7.5 mm wide, lower-central lobe obovate to elliptic to subcircular, 23–34 mm long, 9–19 mm wide, 1.1–1.4 times longer and 2–2.5 times wider than lateral lobes. Stamina 45–62 mm long, posterior pair inserted ca. 1 mm distal to anterior pair, filaments pubescent proximally or throughout with filamentous eglandular trichomes, sometimes glabrous distally, thecae 6.5–8.1 mm long, pairs presented at ca. same height or posterior pair extending up to 1 mm beyond anterior pair, all 4 apically (and posterior pair dorsally) pubescent with cobwebby eglandular trichomes; staminode 0.3–18 mm long, pubescent. Style 53–65 mm long, pubescent with eglandular trichomes throughout; stigma symmetrically funnelform, 0.2–0.3 mm long. Capsule 19–20 mm long, glabrous. Seeds flattened, subcircular to subelliptic in outline, 4–4.5 mm long, 3.2–3.5 mm wide, surface covered with stiff, often apically branched or barbed trichome-like papillae.

DISTRIBUTION AND HABITAT.—Southern Mexico (Chiapas, Tabasco, and Veracruz; Fig. 7); plants occur in lowland to montane rain forest at elevations from 140 to 1,200 m.

Two collections, the type from southeasternmost Veracruz and Torres C. et al. 2081 from Chiapas, have bracts with entire margins. All other collections have inflorescences with at least some of the bracts dentate. Similar variation in bracteal margin is evident in other Mexican species of Aphelandra.

*Aphelandra wendtii* has been confused with, and is undoubtedly most closely related to, *A. heydeana*. Many of the collections cited below have been annotated as the latter species. For example, Nelson 3302 was annotated by Dorothy Gibson as *A. heydeana* and was the sole basis for Wasshausen's (1975) inclusion of the species in Mexico. Although *A. heydeana* is now known from Mexico based on other collections, Nelson's collection pertains to *A. wendtii*. These two species can be distinguished by the features in the following couplet:

Inflorescence elongate, 19–35 mm in diameter (excluding flowers) near midspike; bracts lance-ovate to obovate-elliptic, 14–26 mm long, 2.2–4 times longer than wide, apex attenuate-caudate to caudate; lateral lobes of lower lip of corolla linear to oblanceolate, 5–16 mm long, 0.5–5 mm wide; lower-central lobe of corolla 1.6–4.5 times longer and 3.6–28 times wider than lateral lobes; pollen with 3-armed polar apertures ........................................ *A. heydeana*. Inflorescence subcapitate (rarely elongate), 40–80 mm in diameter (excluding flowers) near midspike; bracts lanceolate to strap-shaped, 28–65 mm long, 5–11 times longer than wide, apex gradually attenuate; lateral lobes of lower lip of corolla obovate to elliptic, 17–25 mm long, 5–7.5 mm wide; lower-central lobe of corolla 1.1–1.4 times longer and 2.2–2.5 times wider than lateral lobes; pollen lacking polar apertures ........................................ *A. wendtii*.

In addition to these morphological distinctions, there appear to be ecological and geographical differences between the two taxa as well. *Aphelandra wendtii* is primarily a lowland, rain forest species restricted to the Gulf slope whereas *A. heydeana* is a highland species of pine and/or oak forests on the Pacific slope.

This species is named in honor of Dr. Tom Wendt, co-collector of the type, whose excellent series of collections from the Uxpanapa Region has significantly increased knowledge of the Mexican rain forests.

**Paratypes.**—MEXICO. Chiapas: Mpio. Palenque, 8–9 km S of Palenque on rd. to Ocosingo, D. Breedlove & Breedlove 26524 (DS, ENCB, LL), 28856 (DS), D. Breedlove & J. Strother 46900 (CAS); Mpio. Palenque, 50 km SW of Palenque on rd. to Ocosingo near Colonia Ursulo Galvano, D. Breedlove 47334 (CAS, DUKE, NY); Mpio. Ocosingo, 70 km SW of Palenque on rd. to Ocosingo along the Jol U'um, D. Breedlove 52540 (CAS), D. Breedlove & F. Almeda 48406 (CAS); Mpio. Chilon, along rd. to Pozo Cuevas above Agua Azul, D. Breedlove & F. Almeda 57214 (CAS); Mpio. Ocosingo, 6–8 km N of Ocosingo along rd. to Bachajón, D. Breedlove & A. Smith 22121 (DS, DUKE, ENCB); Mpio. Yajalón, below Yajalón, D. Breedlove & A. Smith 22247 (DS); Mpio. ChONTAL, Villa Paraíso, 136 km NE of San Cristóbal de las Casas toward Palenque, 17°29'N, 92°05'W, B. Hammel et al. 15650 (CAS, MO); 19.2 km from turn to ruins on rd. from Palenque to Ocosingo via Cascada Misolha, M. Huft & E. Cabrera 2413 (MO); Palenque Ruins, B. Marck & C. Marcks 939 (LL); Mpio. Ocosingo, 2 km N of Naja camino a Palenque, E. Martínez S. & W. Stevens 23976 (CAS); near Tumbala, E. Nelson 3302 (US); Cascadas Mizola, W side of Palenque-Ocosingo rd., ca. 10 mi S of Palenque, A. Reznicek & D. Gregory 297 (MICH); Mpio. del Salto, carr. Ocosingo-Palenque, 11 km N de Jerusalem (Zuñi Cortez), R. Torres C. et al. 2081 (MEXU); Mpio. Yajalón, 67 km S of Palenque, carr. (#199) a Ocosingo, 3.2 km S de Xanil, 17°10'N, 92°09'W, T. Wendt et al. 2336 (CAS). Tabasque. Mpio. Macuspana, E end of Cerro Tortugero, 7 km S of Macuspana, C. Gilly & E. Hernández Z. 399 (GH, MICH); Parque Nacional de Agua Blanca, Macuspana, KM 64 carr. Villahermosa-Escárcega, 17°38'N, 92°30'W, R. Cano D. 6 (CHAPA), L. Martínez G. et al. 6 (CHAPA).


Shrub of unknown height. Young stems suberete to subquadrate, more or less evenly pubescent near apex with flexuose to ascending eglandular trichomes 0.3–1 mm long, these soon becoming concentrated in 2 lines, mature stems glabrate. Leaves opposite to subopposite, petiolate, petioles to 120 mm long (naked portion to 35 mm long), blades ovate, 80–180 mm long, 45–125 mm wide, 1.6–2 times longer than wide, acute to acuminate at apex, gradually to abruptly attenuate-decurrent (often nearly to node) at base, surfaces pubescent with cauline type trichomes, margin entire to subcrenate. Spikes terminal, more or less elongate, up to 90 mm long (excluding flowers), 50–65 mm in diameter (excluding flowers) near midspike, rachis densely pubescent with flexuose to antrorsely appressed, silky glandular and eglandular trichomes 0.5–1.5 mm long (sericous). Bracts with a dark coloration distally (in dried material), ovate to obovate, 20–33(–67) mm long, 9.15(–22) mm wide, 1.8–