



EPIDENDRUM HABERI HÆgsater & L.SÆnchez

THE GENUS *EPIDENDRUM* PART 5

Plate 840

ICONES ORCHIDACEARUM 8. 2006

EPIDENDRUM HABERI Hágsater et L. Sánchez, *sp. nov.*

Type: COSTA RICA: Alajuela: Reserva Monteverde, Río Peñas Blancas, 10°20' N 84 43' W, 820 m, *William Haber & Eladio Cruz 7245*. Holotype: INB! Isotypes: AMO! (Illustration voucher) F 2127642!

Epidendro rafaél-lucasii Hágsater simile sed floribus binis albis, ovario minute verrucoso, sepalis triangulari-ovatis, petalis elliptico-dolabriformibus obliquis, columna brevior, diversum.

Hierba epífita, colgante, simpodial, con crecimiento sucesivo lateral, sin tallo principal. **Raíces** basales del tallo inicial, carnosas. **Tallo** recto, terete, producido de un entrenudo intermedio del tallo anterior, 17-25 x 0.28-0.38 cm. **Hojas** 9-10, desiguales, distribuidas en la mitad apical del tallo; vaina tubular, terete, cubriendo totalmente el entrenudo correspondiente del tallo, 15-30 x 5-8 mm; lámina oblongo elíptica a lanceolada, emarginada, mucronada en el ápice, subcoriácea, 3-11 x 1.5-2 cm. **Bráctea espatácea** ausente. **Inflorescencia** apical, florece una sola vez, dística, corta, recta, 3-4 cm de largo; pedúnculo con 1 bráctea basal conduplicada, aguda, subcoriácea, 18-20 mm. **Brácteas florales** prominentes, conduplicadas, agudas, ligeramente más cortas que el ovario, 1.5-1.8 x 1.8-2 mm. **Flores** 2, simultaneas, blancas; fragancia no registrada. **Ovario** finamente verrugoso, terete, no inflado, 19-20 mm de largo. **Sépalos** extendidos, triangular-ovados, subcoriáceos, agudos, dorsalmente carinados cerca del ápice, plurinervados, margen entero, revuelto, 15-16 x 6-6.3 mm; los **laterales** oblicuos, entreabiertos, rectos. **Pétalos** entreabiertos, elíptico dolabriformes, oblicuos, agudos, subcoriáceos, plurinervados, margen entero, revuelto, 15-16 x 5-5.5 mm. **Labelo** unido a la columna, entero, subcuadrado, los lados algo abrazando la columna, subcoriáceo, 12-13.5 x 9-10 mm; callo una plataforma, prolongándose en una quilla central prominente. **Columna** recta, gruesa, corta, 6.0-6.5 mm de largo. **Clinandrio** corto, margen entero. **Antera** subcuadrada, cóncava al frente, 4-locular. **Polinios** 4, obovoides, lateralmente comprimidos, el par exterior ligeramente más corto; caudículas suaves y granulosas; viscidio semilíquido. **Rostelo** apical, hendido. **Lóbulos laterales del estigma** cortos, de 1/3 del largo de la cavidad estigmática. **Nectario** muy profundo, penetrando todo lo largo del ovario, liso. **Cápsula** no vista.

Epiphytic, pendent herb with sympodial lateral successive growth, without main stem. **Roots** basal, from the initial stem, fleshy. **Stem** straight, terete, produced from an intermediate internode of the previous stem. **Leaves** 9-10, unequal, distributed throughout the apical half of the stem; sheath tubular, terete, covering all the corresponding internode; blade oblong-elliptic to lanceolate, emarginate, apex mucronate, subcoriaceous. **Inflorescence** apical, flowering only once, distichous, short, straight; peduncle with a basal, conduplicate, subacute, subcoriaceous bract, somewhat longer than the floral bracts. **Floral bracts** prominent, conduplicate, acute, somewhat shorter than the ovary. **Flowers** 2, simultaneous, white. **Ovary** minutely verrucose, terete, not inflated. **Sepals** spreading, triangular-ovate, subcoriaceous, acute, dorsally carinate near the apex, many-veined, margin entire, revolute; the **lateral sepals** oblique, partly spreading, straight. **Petals** partly spreading, elliptic-dolabriform, oblique, acute, subcoriaceous, many-veined, margin entire, revolute. **Lip** united to the column, entire, subquadrate, the sides embracing the column, subcoriaceous; callus a platform prolonged into a central, prominent keel. **Column** straight, thick, short. **Clinandrium-hood** short, margin entire. **Anther** subquadrate, concave in front, 4-celled. **Pollinia** 4, obovoid, laterally compressed, the outer pair somewhat shorter; caudicles soft and granulose; viscidium semiliquid. **Rostellum** apical, slit. **Nectary** very deep, penetrating the whole length of the ovary, smooth.

OTHER SPECIMENS: COSTA RICA: Alajuela: Río Peñas Blancas, 900 m, 13 VII 1988, *Bello 171*, INB! MO! Laguna de Pocosol, Río Peñas Blancas, 800 m, 4 VII 1989, *Bello 1001*, INB! SEL! Quebrada Azufre, Río Peñas Blancas, 750 m, 5 VII 1989, *Bello 1009*, INB! Finca Eladio, Río Peñas Blancas, 850 m, 5 VII 1989, *Bello 1013*, INB! MO! Heredia: Reserva Rara Avis, 550-700 m, *Martén 946*, MO! US! Limón: Guápiles, 300-500 m, 22 III 1924, *Standley 37481*, AMES!

DISTRIBUTION AND ECOLOGY: Endemic to Costa Rica, on the Atlantic slope of the Cordillera de Guanacaste and the western portion of the Cordillera Central, 300-900 m altitude. Epiphyte. Flowering in June-July.

RECOGNITION: *Epidendrum haberi* belongs to the Ramosum Group which is characterized by the monopodial, branching stems, the distichous inflorescence, and the single callus, and the Mirabile Subgroup which has pendent plants, successive stems produced from a middle internode of the previous stem, without any evident main stem. The species is recognized by the short stems, 2-flowered raceme, the white flowers, verrucose ovary, triangular-ovate sepals and oblique, elliptic-dolabriform, many-veined petals, subquadrate lip, and short column. It has been confused with *Epidendrum rafaél-lucasii* which grows at somewhat higher altitude, flowers mainly in August and September, has a 2-4 flowered raceme with greenish yellow, lemon-scented flowers, an unornamented ovary, elliptic sepals, oblanceolate petals, triangular-cordiform lip and a longer column, 10 mm long. *Epidendrum cocoense* Hágsater from Cocos Island has a 3-flowered raceme with lemon-yellow flowers, long floral bracts, 7-veined sepals, narrowly elliptic-lanceolate, 5-veined petals, and an elongate lip with a "Y"-shaped callus. *Epidendrum jimenezii* Hágsater has somewhat laterally flattened stems, ovary slightly ventrally inflated toward the middle, sepals narrowly ligulate-obovate, 11-veined, petals ligulate, 3-veined, cordiform lip and the callus "Y"-shaped. *Epidendrum mirabile* Ames & C. Schweinf. has longer plants and larger, very attractive, purple flowers, the sepals 30-36 mm long, ovate-elliptic lip.



CONSERVATION STATUS: DD. Data deficient.

ETYMOLOGY: This species is dedicated to William A. Haber, who has worked in the Monteverde Reserve for years and collected the type.