CRITICAL NOTES ON COSTA RICAN ORCHIDS

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In the preparation of an enumeration of the orchids of Costa Rica, two new varieties were noted and it was found necessary to make a number of new combinations and new names. The present paper describes the novelties and makes the necessary nomenclatorial changes.

Gomphichis costaricensis (Schltr.) Ames, Hubbard & Schweinfurth, comb. nov.


Since we consider Stenoptera costaricensis to be a Gomphichis and not a Stenoptera, the transfer to that genus necessitates a new combination.


Epipactis erosa Ames & Schweinfurth in Sched. Orch. 10 (1930) 9.

This species has not been transferred to Goodyera heretofore and therefore necessitates a new combination.

Lepanthes Lindleyana Oerst. & Reichb.f. var. angustifolia Ames, Hubbard & Schweinfurth, var. nov.

[37]
A typo foliis linearibus vel peranguste lanceolatis differt.

Leaves up to about 4.6 cm. long (3.9 cm. long in the type, 4.6 cm. long in Stork 1699), rarely up to 4 mm. wide, commonly appearing fleshy with revolute margins. Otherwise as in the type.

Costa Rica, Province of San José. Oak forest near Quebradillas, about 7 km. north of Santa Maria de Dota. At about 1,800 meters altitude. December 24, 1925. Paul C. Standley 43071 (Type in Herb. Ames No. 32871); Same data, Paul C. Standley 43088: Santa Maria. At 5,600 feet altitude. May 4, 1928. H.E. Stork 1699.

Lepanthes Lindleyana Oerst. & Reichb.f. var. major Ames, Hubbard & Schweinfurth, var. nov.

Lepanthes fimbriata Ames in Sched. Orch. 3 (January 1923) 11.


A typo plus minusve major, praeertim foliis ovatis vel elliptico-ovatis differt.

Plant up to 10 cm. tall. Leaves ovate, round-ovate or elliptic-ovate, up to 4.1 cm. long and 2.2 cm. wide (2.2 cm. wide in Stork 2063). Sepals ovate, up to 4 mm. long (4 mm. long in the type of L. pubilabia), smooth on the margins and veins. Lamina of the lateral sepals scarcely broader than the dorsal sepal. Mid-lobe of lip more conspicuous than in the type.

Pleurothallis Bradeorum (Schltr.) Ames, Hubbard & Schweinfurth, comb. nov.


We consider the genus Barbosella Schltr. to be congeneric with Pleurothallis R. Br. The combination for this species under Pleurothallis has not been made previously.

Pleurothallis cruciformis Ames, Hubbard & Schweinfurth, nom. nov.

Restrepia Reichenbachiana Endres apud Reichenbach filius in Gard. Chron. n.s. 4 (1875) 356.


We consider that this species belongs in Pleurothallis. In transferring it to that genus a new name is rendered necessary owing to the already existing P. Reichenbachiana Schltr. (1921). The new name refers to the cross-like appearance of the flower.

Pleurothallis geminiflora Ames, Hubbard & Schweinfurth, nom. nov.


Owing to the prior use of the combination Pleurothallis biflora by Focke in 1849 its use by Schlechter in 1918 is invalid, making a new name necessary.

Pleurothallis integrilabia Ames, Hubbard & Schweinfurth, nom. nov.


Owing to the prior use of the combination Pleurothallis dryadum by Schlechter in 1922 its use by Schlechter in 1923 is invalid, making a new name necessary.

Pleurothallis prorepens (Reichb.) Ames, Hub-
bard & Schweinfurth, comb. nov.

Restrepia prorepens Reichenbach filius in Gard. Chron. n.s. 7 (1877) 810.

Barbosella prorepens Schlechter in Fedde Repert. 15 (1918) 263.

This species has not heretofore been placed in Pleurothallis and its transfer to that genus makes a new combination necessary.

Malaxis Parthonii Morr. var. denticulata (Reichb.f.) Ames, Hubbard & Schweinfurth, comb. nov.


The transfer of this variety to Malaxis has not been made previously.

Hexisea Amparoana (Schltr.) Ames, Hubbard & Schweinfurth, comb. nov.


We consider the genus Costaricaea Schltr. to be congeneric with Hexisea Lindl. The combination for this species under Hexisea has not been made previously.

Scaphyglottis corallorrhiza (Ames) Ames, Hubbard & Schweinfurth, comb. nov.

Pachystele corallorrhiza Ames in Sched. Orch. 9 (1925) 45.

We consider the genus Pachystele Schltr. to be congeneric with Scaphyglottis Poepp. & Endl. The combination for this species under Scaphyglottis has not been
made previously.

**Bletia Lankesteri** (A. & S.) Ames, Hubbard & Schweinfurth, comb. nov.

*Limodorum Lankesteri* Ames & Schweinfurth in Sched. Orch. 10 (1930) 78.

As this species has not heretofore been recorded under Bletia a new combination is necessitated. The retention of Limodorum as the generic name of the well-known European species, *L. abortivum* Sw., restores Bletia as a valid generic name.

**Kefersteinia lactea** Reichenbach filius apud B.D. Jackson in Index Kewensis 2 (1895) 4.


The authority usually cited for the combination *Kefersteinia lactea* is Reichb.f. in Gard. Chron. (1872) 1290. The actual combination published there is *Zygopetalum* (Kefersteinia) lacteum, n. sp. The earliest appearance of the combination *Kefersteinia lactea* that we have found is in Index Kewensis, as cited above.

**Maxillaria angustissima** Ames, Hubbard & Schweinfurth, nom. nov.


Owing to the prior use of the combination *Maxillaria acutifolia* by Lindley in 1839 its use by Schlechter in 1923 is invalid, making a new name necessary.

**Maxillaria flava** Ames, Hubbard & Schweinfurth, nom. nov.

We consider that this species is referable to *Maxillaria* rather than to *Ornithidium*. As there is already a *Maxillaria ramonensis* Schltr., a new name is rendered necessary in transferring the species.