

Gesneriaceae, pp. 492-507.

In: P.M. Jørgenson & S. León-Yáñez (eds.), Catalogue of the Vascular Plants of Ecuador. St. Louis, Missouri, U.S.A.: Missouri Botanical Garden Press. [Monographs in Systematic Botany from the Missouri Botanical Garden, volume 75.]

REFNO: 2984

KEYWORDS:

Achimenes, Alloplectus, Anetanthus, Anodiscus, Besleria, Capanea, Chrysothemis, Codonanthe, Codonanthopsis, Columnea, Corytoplectus, Cremosperma, Diastema, Drymonia, Ecuador, Episcia, Gasteranthus, Gloxinia, Heppiella, Kohleria, Monopyle, Napeanthus, Nautilocalyx, Neomortonia, Paradrymonia, Pearcea, Phinaea, Reldia, Rhynchoglossum, Sinningia

CATALOGUE OF THE VASCULAR PLANTS OF ECUADOR

CATÁLOGO DE LAS PLANTAS VASCULARES DEL ECUADOR

Peter Møller Jørgensen & Susana León-Yáñez, editors

Amada Pedroni González, Vallery A. Swift, and Nancy L. Hediger, technical editors

A collaboration between Missouri Botanical Garden,
Herbario QCA, Pontificia Universidad Católica del Ecuador,
Herbario Nacional, Museo Ecuatoriano de Ciencias Naturales, and
Department of Systematic Botany, Aarhus University



MONOGRAPHS IN SYSTEMATIC BOTANY
FROM THE MISSOURI BOTANICAL GARDEN

Volume 75

ISBN 0-915297-60-6
ISSN 0161-1542

AUTHORS' ADDRESSES

Peter Møller Jørgensen
Missouri Botanical Garden
P.O. Box 299
St. Louis, Missouri 63166-0299, U.S.A.

Susana León-Yáñez
Herbario QCA
Pontificia Universidad Católica del Ecuador
Apartado 17-01-2184
Quito, Ecuador
Current Address: Department of Biology
University of Missouri-St. Louis
8001 Natural Bridge Road
St. Louis, Missouri 63121, U.S.A.

EDITOR

Victoria C. Hollowell

MANAGING EDITOR

Amy Scheuler McPherson

EDITORIAL ASSISTANT

Diana Gunter

TEXT FORMATTER

Barbara Mack

SECRETARY

Vicki Couture

Cover illustration based on Humboldt's (1807) *Essai sur la Géographie des Plantes*.

Published on 30 July 1999.

Copyright © 1999 by Missouri Botanical Garden Press.

P.O. Box 299

St. Louis, Missouri 63166-0299, U.S.A.

All rights reserved.

Printed in U.S.A.

Table of Contents

Tabla de Contenido

FOREWORD	vii	PRÓLOGO	vii
INTRODUCTION	1	INTRODUCCIÓN	1
GEOGRAPHY	2	GEOGRAFÍA	2
GEOLOGY	5	GEOLOGÍA	5
PALEOCLIMATES	7	PALEOCLIMAS	7
CLIMATES	8	CLIMAS	8
VEGETATION	13	VEGETACIÓN	13
VEGETATION TYPES	14	TIPOS DE VEGETACIÓN	14
Mangrove	14	Manglares	14
Coastal desert and semi-desert	14	Áreas desérticas y semi-desérticas de la Costa	15
Savanna and deciduous forest	15	Sabana y bosque decíduo	15
Semi-deciduous forest	16	Bosque semi-decíduo	16
Lowland rain forest	16	Bosque lluvioso de las tierras bajas	16
Lower montane rain forest	18	Bosque lluvioso montano bajo	18
Cloud forest	19	Bosque nublado	20
North Ecuadorian grassland and quebrada vegetation	20	Pastizales y vegetación de quebrada del norte del Ecuador	21
South Ecuadorian shrub vegetation	21	Vegetación arbustiva del sur del Ecuador	22
Dry scrub vegetation of southernmost Ecuador	22	Matorral árido del extremo sur del Ecuador	22
Inter-Andean desert and semi-desert	22	Áreas desérticas y semi-desérticas interandinas	22
Grass páramos	22	Páramo de pajonal	23
Shrub and cushion páramos	24	Páramo arbustivo y de almohadillas	24
Desert páramos	24	Páramos desérticos	25
Seasonally inundated areas	25	Áreas estacionalmente inundadas	25
HISTORY OF COLLECTING	25	HISTORIA DE LAS COLECCIONES BOTÁNICAS	25
FORMAT OF THE CATALOGUE	41	FORMATO DEL CATÁLOGO	41
RESULTS	42	RESULTADOS	43
Taxonomic groups	43	Grupos taxonómicos	43
Regions	62	Regiones	63
Elevation zones	65	Zonas de elevación	65
Elevation and taxonomic groups	69	Elevación y grupos taxonómicos	69
Elevation and regions	70	Elevación y regiones	70
Elevation, regions, and taxonomic groups	74	Elevaciones, regiones y grupos taxonómicos	72
Habits	75	Hábitos	74
Habits, elevation zones, and regions	79	Hábitos, zonas de elevación y regiones	75
Habits and taxonomic groups	81	Hábitos y grupos taxonómicos	81
Provinces	96	Provincias	96
Provinces and taxonomic groups	101	Provincias y grupos taxonómicos	101
Provinces, elevation zones, and regions	102	Provincias, zonas de elevación y regiones	102
Summary and conclusions	103	Resumen y conclusiones	103
ACKNOWLEDGMENTS	104	AGRADECIMIENTOS	104
PTERIDOPHYTES	109		
GYMNOSPERMS	189		
ANGIOSPERMS	191		
APPENDIX 1	953		
LITERATURE CITED	957		
INDEX TO SYNONYMS	1017		
INDEX TO FAMILIES AND GENERA	1169		

***Geranium loxense* Halfdan-Niels.**

Ref.: Halfdan-Nielsen, B. (1996).
Herb. Endemic. Andean. 2500–3500 m.
Prov.: AZU, LOJ, MOR.
Voucher: MADSEN 86287 (HT: AAU), B.
ØLLGAARD 74666 (AAU, LOJA, QCA).

***Geranium maniculatum* H.E. Moore**

Ref.: Clifton, R. T. F. (1992).
Herb. Native. Andean. 3000–4500 m.
Prov.: AZU, CAR, CHI, LOJ, MOR,
NAP, PAS, PIC, TUN.
Voucher: STEYERMARK 53159 (HT: HT: BH;
IT: F, US), HALFDAN-NIELSEN & S. LEÓN 66
(AAU, QCA!, C).

***Geranium multipartitum* Benth.**

Syn.: *Geranium multipartitum* var.
glabrescens Hieron. ex R. Knuth, *Geranium*
multipartitum var. *typicum* R. Knuth,
Geranium multipartitum var. *velutinum* R.
Knuth, *Geranium heinrichsae* R. Knuth.
Ref.: Clifton, R. T. F. (1992); Jørgensen,
P. M. & C. Ulloa U. (1994).
Herb. Native. Andean. 4000–4500 m.
Prov.: AZU, BOL, CAÑ, CAR, CHI, COT,
ORO, IMB, MOR, NAP, PIC, TUN.
Voucher: HARTWEG S.N. (HT: K), LUTEYN
13395 (NY, QCA!).

***Geranium reptans* R. Knuth**

Syn.: *Geranium diffusum* var. *genuinum*
Briq., *Geranium diffusum* var. *sprucei* Briq.,
Geranium caucense R. Knuth.
Ref.: Clifton, R. T. F. (1992).
Herb. Native. Andean. 2500–4500 m.
Prov.: AZU, CAR, CHI, COT, IMB,
NAP, PIC, SUC, TUN.
Voucher: SODIRO 211 (HT: B destr.),
LÆGAARD 51396 (AAU, QCA!, QCNE).

***Geranium seemannii* Peyr.**

Syn.: *Geranium regale* Rydb., *Geranium*
seemannii var. *macranthum* Briq.,
Geranium seemannii var. *minoriflorum*
Briq., *Geranium mexicanum* var.
macranthum (Briq.) R. Knuth, *Geranium*
mexicanum var. *minoriflorum* (Briq.) R.
Knuth.
Ref.: Clifton, R. T. F. (1992).
Herb. Native. Andean. 1500–2500 m.
Prov.: BOL, IMB, PIC, TUN.
Voucher: ASPLUND 6109 (S!).

***Geranium sericeum* Willd. ex Spreng.**

Ref.: Clifton, R. T. F. (1992).
Herb. Endemic. Andean. 3500–4500 m.
Prov.: BOL, NAP, PIC.
Voucher: HUMBOLDT S.N. (HT: B-W; IT: B
destr., F), BARFOD ET AL. 41272 (AAU).

[*Geranium sessiliflorum* Cav.]

Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Note: Report based on misidentified material.

***Geranium sibbaldioides* Benth.**

Syn.: *Geranium cucullatum* Kunth hom.
illeg., *Geranium ciliatum* Willd. ex
Spreng. hom. illeg., *Geranium cucullatum*
var. *elongatum* Wedd., *Geranium*
cucullatum var. *typicum* R. Knuth,
Geranium pumilum R. Knuth hom. illeg.,
Geranium igualatense R. Knuth, *Gera-*
nium igualatense var. *laxius* R. Knuth,
Geranium sibbaldioides var. *elongatum*
(Wedd.) J.F. Macbr., *Geranium*
neopumilum Aedo & Muñoz Garm.
Ref.: Clifton, R. T. F. (1992); Aedo, C. &
F. Muñoz G. (1997).
Herb. Native. Andean. 2500–>4500 m.
Prov.: AZU, CAÑ, CAR, CHI, COT, ORO,
IMB, LOJ, MOR, NAP, PIC, TUN, ZAM.
Voucher: HARTWEG S.N. (HT: K; IT: LD), B.
ØLLGAARD ET AL. 34062 (AAU, QCA!).

***Geranium stramineum* Triana & Planch.**

Syn.: *Geranium confertum* Standl.
Ref.: Clifton, R. T. F. (1992).
Herb. Native. Andean. 3000–4500 m.
Prov.: CAR, IMB, NAP, PIC.
Voucher: HALFDAN-NIELSEN & S. LEÓN 71
(C, QCA!).

***Pelargonium* L'Hér. ex Aiton**

6 species.

***Pelargonium ×domesticum* L.H. Bailey**

Ref.: Clark, D. (1988); Jørgensen, P. M. &
C. Ulloa U. (1994).
Herb. Introduced and cultivated. Andean.
2500–3000 m.
Prov.: AZU, IMB, PIC, TUN.
Voucher: C. ULLOA 14 (QCA!).

***Pelargonium ×hortorum* L.H. Bailey**

Ref.: Dodson, C. H. et al. (1985); Clark,
D. (1988).
Herb. Introduced and cultivated. Coastal and
Andean. 0–500 m and 3000–3500 m.
Prov.: AZU, IMB, RIO, PIC, TUN.
Voucher: PUYOL 4 (QCA!).

***Pelargonium odoratissimum* (L.) L'Hér.**

Syn.: *Geranium odoratissimum* L.
Ref.: van der Walt, J. J. A. (1977).
Herb. Introduced and cultivated. Andean.
2500–3000 m.
Prov.: PIC.
Voucher: TORRES 33 (QCA!).

***Pelargonium peltatum* (L.) L'Hér. ex Sol.**

Syn.: *Geranium peltatum* L.
Ref.: van der Walt, J. J. A. (1977); Clark,
D. (1988).
Herb. Introduced and cultivated. Andean.
2000–3000 m.
Prov.: AZU, IMB, PIC, TUN.

Voucher: Y. YÁÑEZ 5 (QCA!).

Note: Often hybridized with *P. ×hortorum*.

***Pelargonium ribifolium* Jacq.**

Ref.: van der Walt, J. J. A. & P. J. Vorster
(1981).
Herb. Introduced and cultivated. Andean.
2500–3500 m.
Prov.: COT.
Voucher: R. SEARS 6 (QCA!).

***Pelargonium vitifolium* (L.) L'Hér.**

Syn.: *Geranium vitifolium* L.
Ref.: van der Walt, J. J. A. (1977);
Jørgensen, P. M. & C. Ulloa U. (1994).
Herb. Introduced and cultivated. Andean.
2500–3000 m.
Prov.: TUN.
Voucher: ACOSTA-SOLÍS 9632 (F!).

***Rhynchotheca* Ruiz & Pav.**

1 species.

Note: Monotypic. occurs also in Peru.
Frequently placed in Biebersteiniaceae.

***Rhynchotheca spinosa* Ruiz & Pav.**

Syn.: *Rhynchotheca diversifolia* Kunth,
Rhynchotheca integrifolia Kunth,
Aulacostigma inerme Turcz.,
Rhynchotheca spinosa var. *integrifolia*
(Kunth) R. Knuth, *Rhynchotheca*
spinosa var. *lobata* R. Knuth.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Shrub or treelet. Native. Andean. 2000–
3500 m.
Prov.: CAÑ, CHI, COT.
Voucher: BRANDBYGE ET AL. 42050
(AAU!, QCA!).

GESNERIACEAE

Compiled by L. Skog (US); reviewed by
L.-P. Kvist (CP).
29 genera, 240 species, 77 endemic species.

***Achimenes* Pers.**

1 species.

***Achimenes pedunculata* Benth.**

Syn.: *Locheria pedunculata* (Benth.)
Regel, *Locheria pedunculata* var.
gracilis Oerst. ex Hanst., *Locheria*
pedunculata var. *major* Hanst.,
Achimenes superba Moritz ex Hanst.
Herb. Introduced. Coastal. 500–1000 m.
Prov.: COT.
Voucher: HOLM-NIELSEN ET AL. 3048
(AAU!, F!, MO!, S!(2), US!).
Note: Probably introduced.

***Alloplectus* Mart.**

17 species; 2 endemic species.

- Alloplectus baguensis* L.E. Skog**
Shrub. Native. Andean. 2000–2500 m.
Prov.: MOR.
Voucher: W. PALACIOS & VAN DER WERFF 3738 (MO!).
- Alloplectus bolivianus* (Britton) Wiehler**
Syn.: *Columnnea boliviana* Britton.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Subshrub. Native. Andean. 1500–3500 m.
Prov.: CAR, CHI, COT, MOR, PIC, ZAM.
Voucher: B. A. STEIN & D'ALESSANDRO 2748 (AAU, NY, US!).
- Alloplectus dodsonii* Wiehler**
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Herb. Native. Coastal and Andean. 0–2000 m.
Prov.: AZU, CAR, COT, ORO, ESM, GUA, RIO, MAN, NAP, PIC.
Voucher: WIEHLER & DODSON 7105 (HT: SEL; IT: BR, K, MO, NY, QCA, S, US), HITCHCOCK 20544 (GH!, NY!, US!).
Note: Type material not seen; duplicates not distributed.
- Alloplectus herthae* Mansf.**
Herb. Endemic. Coastal. 0–500 m.
Prov.: RIO.
Voucher: SCHULTZE-RHONHOF 1903 (HT: B destr.).
Note: Known only from the type.
- Alloplectus hispidus* (Kunth) Mart.**
Syn.: *Besleria hispida* Kunth, *Columnnea humboldtiana* Kuntze.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Vine. Native. Andean. 2000–3500 m.
Prov.: AZU, LOJ, NAP, PIC, TUN, ZAM.
Voucher: HARLING ET AL. 8204 (GB!, QCA, SEL!).
- Alloplectus ichthyoderma* Hanst.**
Syn.: *Alloplectus meridensis* Klotzsch ex Hanst., *Columnnea ichthyoderma* (Hanst.) Kuntze, *Columnnea meridensis* (Klotzsch ex Hanst.) Kuntze, *Crantzia ichthyoderma* (Hanst.) Fritsch, *Alloplectus ruacophilus* Donn. Sm., *Crantzia varelana* Cuatrec., *Alloplectus varelanus* (Cuatrec.) Cuatrec., *Alloplectus ichthyoderma* var. *pallidus* C.V. Morton.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Herb or shrub. Native. Andean. 1500–4000 m.
Prov.: AZU, CAÑ, CAR, CHI, IMB, LOJ, MOR, NAP, PIC, TUN, ZAM.
Voucher: J. JARAMILLO 5319 (GB!, MO!).
- Alloplectus medusaeus* L.E. Skog**
Herb. Native. Coastal, Andean, and Amazonian. 500–1500 m.
Prov.: CHI, ORO, MOR, NAP, PAS, PIC, TUN.
- Voucher: H. LUGO 4714 (GB!, SEL!, US!, WIS!).
- Alloplectus panamensis* C.V. Morton**
Shrub. Native. Coastal and Andean. 0–1500 m.
Prov.: CAR, ESM, MOR, PIC.
Voucher: W. S. HOOVER 2206 (MO!).
- Alloplectus peruvianus* (Zahlbr.) L.P. Kvist & L.E. Skog**
Syn.: *Columnnea peruviana* Zahlbr., *Columnnea tusilla* Cuatrec., *Columnnea dielsii* Mansf., *Ortholoma dielsii* (Mansf.) Wiehler, *Ortholoma peruvianum* (Zahlbr.) Wiehler, *Trichantha dielsii* (Mansf.) Wiehler, *Trichantha peruviana* (Zahlbr.) Wiehler, *Alloplectus dielsii* (Mansf.) Wiehler.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Epiphytic shrub. Native. Andean. 2500–4000 m.
Prov.: AZU, BOL, CAR, COT, IMB, LOJ, PIC, ZAM.
Voucher: J. BOEKE 558 (AAU!, NY!, QCA, US!).
- Alloplectus purpureus* L.P. Kvist & L.E. Skog**
Ref.: Kvist, L. P. & L. E. Skog (1992a); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb. Native. Andean. 1000–2000 m.
Prov.: CAR, IMB, PIC.
Voucher: ØLLGAARD ET AL. 37673 (HT: AAU!), MADISON ET AL. 4655 (AAU!, FI, SEL!).
- Alloplectus schultzei* Mansf.**
Shrub. Native. Andean. 1000–3500 m.
Prov.: AZU, MOR, NAP, PAS.
Voucher: CROAT 58531 (MO!).
- Alloplectus sprucei* (Kuntze) Wiehler**
Syn.: *Columnnea sprucei* Kuntze, *Crantzia sprucei* (Kuntze) Fritsch.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Herb. Native. Coastal and Andean. 0–2000 m.
Prov.: AZU, CAR, COT, ORO, ESM, IMB, RIO, PIC.
Voucher: SPRUCE 6216 (LT: K; ILT: BM, W), A. H. GENTRY 17994 (GB!, MO!, RPSC, SEL!).
- [***Alloplectus strigosus* Hanst.**]
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Note: Report based on misidentified material.
- Alloplectus tenuis* Benth.**
Syn.: *Columnnea benthamiana* Kuntze.
Herb or vine. Native. Andean and Amazonian. 500–3000 m.
Prov.: CAR, IMB, MOR, NAP, PIC, ZAM.
Voucher: HARTWEG S.N. (HT: K), HOLM-
- NIELSEN ET AL. 27331 (AAU!, MO!, QCA!).
- Alloplectus tetragonoides* Mansf.**
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Shrub. Endemic. Andean. 1000–3500 m.
Prov.: CAR, IMB, MOR, NAP, PAS, PIC, TUN.
Voucher: DIELS 1002 (HT: B destr.), LÖJTNANT & MOLAU 13118 (AAU!, GB).
- Alloplectus tetragonus* (Oerst.) Hanst.**
Syn.: *Glossoloma tetragona* Hanst., *Nematanthus tetragonus* Oerst. ex Hanst., *Columnnea tetragona* (Hanst.) Kuntze, *Crantzia tetragona* (Hanst.) Fritsch, *Alloplectus ichthyoderma* var. *hirsutulus* C.V. Morton, *Alloplectus simulans* C.V. Morton, *Alloplectus cucullatus* C.V. Morton, *Alloplectus cucullatus* var. *substrigosus* C.V. Morton, *Alloplectus fraternus* C.V. Morton.
Herb. Native. Coastal and Andean. 500–1500 m.
Prov.: BOL, CAR, ESM, RIO.
Voucher: DODSON ET AL. 12124 (SEL!).
- Alloplectus teuscheri* (Raymond) Wiehler**
Syn.: *Hypocyrtia teuscheri* Raymond.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Herb or subshrub. Native. Coastal. Andean, and Amazonian. 500–3500 m.
Prov.: AZU, BOL, CAÑ, CAR, CHI, COT, ORO, ESM, RIO, MAN, MOR, NAP, PIC, ZAM.
Voucher: RAYMOND S.N. (HT: MTJB), HARLING ET AL. 9663 (GB!, SEL!, US!).
- Alloplectus weirii* (Kuntze) Wiehler**
Syn.: *Columnnea lindenii* Kuntze hom. illeg., *Columnnea weirii* Kuntze, *Crantzia lindenii* (Kuntze) Fritsch, *Crantzia weirii* (Kuntze) Fritsch, *Alloplectus lindenii* (Kuntze) Wiehler.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Epiphyte. Native. Andean. 2000–2500 m.
Prov.: NAP, PAS, ZAM.
Voucher: STEYERMARK 54699 (FI, US!).
- Anetanthus Hiern* ex Benth.**
1 species.
- Anetanthus gracilis* Hiern**
Syn.: *Anetanthus hilarianus* Baill., *Anetanthus weddellianus* Baill., *Anetanthus pusillus* Glaz.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Shrub. Native. Andean and Amazonian. 500–3000 m.
Prov.: MOR, ZAM.
Voucher: W. PALACIOS ET AL. 8590 (MO!, US!).
- Anodiscus* Benth.**
1 species.

Anodiscus xanthophyllus (Poepp.)**Mansf.**

Syn.: *Gesneria xanthophylla* Poepp.,
Anodiscus peruvianus Benth., *Rechsteineria*
xanthophylla (Poepp.) Kuntze.
Herb. Native. Andean and Amazonian.
500–2000 m.
Prov.: CHI, MOR, NAP.
Voucher: HIRTZ ET AL. 4406 (MO!).

Besleria L.

15 species; 4 endemic species.

Besleria aggregata (Mart.) Hanst.

Syn.: *Hypocyrta aggregata* Mart.,
Codonanthe aggregata (Mart.) Hanst.,
Columnnea aggregata (Mart.) Kuntze,
Besleria ignea Fritsch, *Besleria ignea* var.
loretensis C.V. Morton, *Besleria ignea* var.
mexiae C.V. Morton, *Codonanthopsis*
aggregata (Mart.) Hoehne, *Besleria*
aggregata var. *loretensis* (C.V. Morton)
C.V. Morton, *Besleria aggregata* var.
mexiae (C.V. Morton) C.V. Morton.
Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Andean and Amazonian.
0–1500 m.
Prov.: MOR, NAP, PAS, SUC, TUN.
Voucher: H. LUGO 2141 (GB!, SEL!, US!).

Besleria angustiflora Fritsch

Shrub. Native. Andean. Elevation uncertain.
Prov.: PIC.
Voucher: G. L. WEBSTER ET AL. 29171
(DAV!, US!).

Besleria barbata (Poepp.) Hanst.

Syn.: *Hypocyrta barbata* Poepp., *Besleria*
densiflora Fritsch.
Ref.: Renner, S. S. et al. (1990);
Jørgensen, P. M. & C. Ulloa U. (1994).
Shrub. Native. Coastal, Andean, and
Amazonian. 0–2500 m.
Prov.: CAR, LOJ, MOR, NAP, PAS,
SUC, TUN, ZAM.
Voucher: H. LUGO 4387 (GB!, SEL!, US!,
WIS!).

Besleria barclayi L.E. Skog

Shrub or treelet. Native. Coastal. 0–500 m.
Prov.: ESM, PIC.
Voucher: JÁTIVA ET AL. 381 (S!, UC!, US!).

Besleria comosa C.V. Morton

Ref.: Renner, S. S. et al. (1990);
Jørgensen, P. M. & C. Ulloa U. (1994).
Shrub. Endemic. Andean and Amazonian.
0–3000 m.
Prov.: MOR, NAP, PAS, TUN, ZAM.
Voucher: A. S. HITCHCOCK 21870 (HT:
US!, IT: GH), HARLING ET AL. 13037
(GB!, SEL!, US!).

Besleria divaricata Poepp.

Syn.: *Columnnea divaricata* (Poepp.) Walp.

Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Herb. Native. Andean. 3000–3500 m.
Prov.: MOR, NAP, ZAM.
Voucher: HARLING ET AL. 12914 (GB!,
SEL!, US!).

Besleria immitis C.V. Morton

Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Amazonian. 0–500 m.
Prov.: CAR, NAP, PAS.
Voucher: B. ØLLGAARD ET AL. 38844 (AAU!).

Besleria microphylla Fritsch

Shrub. Native. Andean. 1000–1500 m.
Prov.: CAR.
Voucher: A. H. GENTRY & SHUPP 26539
(AAU!, US!).

Besleria miniata C.V. Morton

Ref.: Renner, S. S. et al. (1990).
Shrub. Endemic. Amazonian. 0–500 m.
Prov.: ESM, MOR, NAP.
Voucher: MEXIA 8410 (HT: US!, IT: B, BM,
F, GB, GH, K, MO!, NY, SI, U, UC!, US!),
BRANDBYGE ET AL. 30519 (AAU!, US!).

Besleria modica C.V. Morton

Ref.: Renner, S. S. et al. (1990).
Shrub. Endemic. Andean and Amazonian.
0–1500 m.
Prov.: CAR, ORO, MOR, NAP, PAS,
PIC, TUN.
Voucher: A. S. HITCHCOCK 21201 (HT: US;
IT: F), BRANDBYGE & E. ASANZA 32319
(AAU!, QCA, US!).

Besleria pauciflora Rusby

Syn.: *Besleria pauciflora* var. *uniflora*
C.V. Morton, *Besleria sprucei* var.
flavescens C.V. Morton, *Besleria*
wurdackii C.V. Morton.
Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Amazonian. 0–500 m.
Prov.: PAS.
Voucher: B. ØLLGAARD ET AL. 34710
(AAU!, US!).

Besleria quadrangulata L.E. Skog

Ref.: Skog, L. E. (1982); Renner, S. S. et
al. (1990).
Shrub. Endemic. Andean and Amazonian.
0–2000 m.
Prov.: NAP, PAS.
Voucher: BLEIWEISS 23 (HT: US!, IT: GH!),
HARLING ET AL. 9741 (GB!, QCA, SEL!).

Besleria solanoides Kunth

Syn.: *Besleria acutifolia* Benth.,
Parabesleria costaricensis Oerst.,
Besleria costaricensis (Oerst.) Hanst.,
Besleria solanoides var. *parvifolia* C.V.
Morton, *Besleria obliqua* C.V. Morton.
Shrub. Native. Coastal, Andean, and
Amazonian. 500–2000 m.
Prov.: CAR, ESM, MOR, NAP, PAS,

PIC, ZAM.

Voucher: H. LUGO 4703 (GB!, SEL(2)!, US!).

Besleria stricta L.E. Skog

Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Amazonian. 0–500 m.
Prov.: MOR, NAP, PAS, SUC.
Voucher: BRANDBYGE ET AL. 33189
(AAU!, US!).

Besleria variabilis C.V. Morton

Syn.: *Besleria variabilis* fo. *barbatula*
C.V. Morton, *Besleria variabilis* fo.
pallida C.V. Morton.
Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Amazonian. 0–1000 m.
Prov.: MOR, NAP, PAS, SUC, ZAM.
Voucher: C. CERÓN & M. CERÓN 3082
(MO!, US!).

Capanea Decne. ex Planch.

2 species.

Capanea affinis Fritsch

Syn.: *Capanea andina* Fritsch, *Capanea*
hansteini Fritsch, *Capanea quitensis*
Fritsch, *Capanea urceolata* Fritsch.
Capanea peruviana Fritsch, *Isoloma*
oblancoelatum Donn. Sm., *Isoloma*
vulcanicum Donn. Sm.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Shrub, vine, or epiphyte. Native. Andean.
1000–3500 m.
Prov.: BOL, CAR, CHI, COT, IMB, LOJ,
NAP, PIC, ZAM.
Voucher: LUTEYN ET AL. 8801 (AAU, NY,
US!).

Capanea grandiflora (Kunth) Decne. ex Planch.

Syn.: *Besleria grandiflora* Kunth, *Drymonia*
grandiflora (Kunth) G. Don, *Gloxinia*
tigridia Ohlend., *Sisyrocarpium*
ohlendorffii Klotzsch ex Walp.,
Rhytidophyllum humboldtii Klotzsch.
Rhytidophyllum oerstedii Klotzsch.
Rhytidophyllum tigridia (Ohlend.)
Klotzsch, *Capanea humboldtii* (Klotzsch)
Oerst., *Capanea oerstedii* (Klotzsch)
Oerst., *Capanea picturata* Donn. Sm.,
Capanea oerstedii var. *laevis* C.V. Morton,
Capanea chiriquana C.V. Morton.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Epiphyte. Native. Andean. 1000–3000 m.
Prov.: AZU, CAR, MOR, NAP, TUN.
Voucher: HARLING ET AL. 16168 (GB!, US!).

Chrysothemis Decne.

2 species.

Chrysothemis friedrichsthaliana (Hanst.) H.E. Moore

Syn.: *Tussacia friedrichsthaliana* Hanst.
Ref.: Dodson, C. H. & A. H. Gentry
(1978a); Dodson, C. H. et al. (1985).

Herb. Native. Coastal. 0-500 m.
Prov.: ESM, GUA, RIO, MAN, PIC.
Voucher: DODSON ET AL. 9979 (GUAY,
MO, SEL!).

***Chrysothemis pulchella* (Donn ex Sims)
Decne.**

Syn.: *Besleria pulchella* Donn ex Sims,
Episcia pulchella (Donn ex Sims) Mart. ex
G. Don, *Tussacia pulchella* (Donn ex
Sims) Rehb. ex Walp., *Skiophila pulchella*
(Donn ex Sims) Hanst., *Chrysothemis*
aurantiaca Decne., *Cyrtandromoea minor*
Ridl., *Tussacia woodsonii* C.V. Morton.
Ref.: Renner, S. S. et al. (1990).
Herb. Native. Coastal and Amazonian. 0-
500 m.

Prov.: ESM, NAP.
Voucher: R. ANDRADE 33013 (AAU!).

***Codonanthe* (Mart.) Hanst.**

3 species; 1 endemic species.

***Codonanthe crassifolia* (H. Focke)
C.V. Morton**

Syn.: *Hypocyrta crassifolia* H. Focke,
Episcia hookeri Hanst., *Codonanthe*
confusa Sandwith.

Ref.: Dodson, C. H. & A. H. Gentry
(1978a); Renner, S. S. et al. (1990).
Epiphytic herb. Native. Coastal and
Amazonian. 0-500 m.

Prov.: ESM, RIO, MOR, NAP, PAS, PIC,
SUC.

Voucher: SMITH ET AL. 3406 (QCNE!, US!).

***Codonanthe erubescens* Wiehler**

Ref.: Wiehler, H. (1995).
Epiphytic herb. Endemic. Andean and
Amazonian. 500-2000 m.

Prov.: MOR, NAP, ZAM.
Voucher: WIEHLER ET AL. 88152 (HT: GES;
IT: F, K, MO, NY, QCA, S, SEL, U,
US), WIEHLER ET AL. 86174 (GES, US).

Note: Material not seen; duplicates not
distributed.

***Codonanthe uleana* Fritsch**

Syn.: *Columnea calcarata* Donn. Sm.,
Codonanthe formicarum Fritsch,
Codonanthe uleana var. *integrifolia* Fritsch,
Codonanthe decurrens I.M. Johnst.

Ref.: Dodson, C. H. & A. H. Gentry
(1978a); Renner, S. S. et al. (1990).
Epiphyte. Native. Coastal and Amazonian.
0-500 m.

Prov.: CAR, ESM, RIO, NAP, PAS, PIC,
SUC.

Voucher: BRANDBYGE & E. ASANZA 30012
(AAU!, QCA, US!).

***Codonanthopsis* Mansf.**

2 species.

***Codonanthopsis dissimulata* (H.E.**

Moore) Wiehler

Syn.: *Codonanthe dissimulata* H.E. Moore,
Codonanthopsis peruviana Wiehler.
Ref.: Renner, S. S. et al. (1990).

Herb. Native. Coastal and Amazonian. 0-
1000 m.

Prov.: ESM, MOR, NAP, PAS, SUC, ZAM.
Voucher: J. JARAMILLO 6834 (MO!).

***Codonanthopsis ulei* Mansf.**

Syn.: *Codonanthe ulei* (Mansf.) H.E. Moore.
Ref.: Renner, S. S. et al. (1990).

Epiphyte. Native. Amazonian. 0-500 m.
Prov.: NAP, PAS.

Voucher: B. ØLLGAARD ET AL. 34679 (AAU!).

***Columnea* L.**

65 species; 17 endemic species.

[*Columnea affinis* C.V. Morton]

Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Note: Report based on misidentified
material of *C. sanguinea*.

***Columnea albiflora* L.P. Kvist & L.E.**

Skog

Syn.: *Dalbergaria albiflora* (L.P. Kvist &
L.E. Skog) Wiehler.

Ref.: Kvist, L. P. & L. E. Skog (1993);
Jørgensen, P. M. & C. Ulloa U. (1994);
Wiehler, H. (1995).

Herb, shrub, or epiphyte. Endemic.
Andean. 1000-2500 m.

Prov.: NAP, ZAM.

Voucher: HARLING & L. ANDERSSON 16363
(HT: US!; IT: GB!), HOLM-NIELSEN ET
AL. 26463 (AAU!, QCA).

***Columnea angustata* (Wiehler) L.E.**

Skog

Syn.: *Columnea sericea* Mansf. hom. illeg.,
Pentadenia sericea (Mansf.) Wiehler,
Pentadenia angustata Wiehler, *Pentadenia*
ecuadorana Wiehler, *Columnea*
ecuadorana (Wiehler) L.E. Skog.

Ref.: Wiehler, H. (1977); Renner, S. S. et
al. (1990); Kvist, L. P. & L. E. Skog
(1993); Kvist, L. P. & L. E. Skog
(1994); Smith, J. F. (1994).

Epiphytic shrub. Native. Coastal, Andean,
and Amazonian. 0-1500 m.

Prov.: CAR, CHI, COT, ORO, ESM,
GUA, IMB, RIO, MAN, MOR, NAP,
PAS, PIC, TUN.

Voucher: L. P. KVIST ET AL. 60325 (AAU,
QCA, QCNE, US!).

***Columnea anisophylla* DC.**

Syn.: *Nematanthus heterophyllus* Poepp.,
Columnea acuminata Benth., *Ortholoma*
acuminatum (Benth.) Hanst., *Ortholoma*
vestitum Klotzsch ex Oerst., *Ortholoma*
warscewiczianum Klotzsch ex Oerst.,

Columnea vestita Klotzsch & Hanst. ex
Hanst., *Columnea warscewicziana*
(Klotzsch ex Oerst.) Hanst., *Columnea*
sanmartensis Rusby, *Ortholoma*
anisophyllum (DC.) Wiehler, *Trichantha*
anisophylla (DC.) Wiehler, *Trichantha*
acuminata (Benth.) Wiehler.

Ref.: Kvist, L. P. & L. E. Skog (1993).
Herb. Native. Andean. 1000-1500 m.
Prov.: CAR, MOR, PAS, TUN, ZAM.
Voucher: HARLING & L. ANDERSSON 23869
(US).

***Columnea asteroloma* (Wiehler) L.E.
Skog**

Syn.: *Dalbergaria asteroloma* Wiehler.
Ref.: Wiehler, H. (1977); Kvist, L. P. & L.
E. Skog (1993); Kvist, L. P. & L. E.
Skog (1994).

Epiphytic herb. Endemic. Coastal. 0-1000 m.
Prov.: RIO, PIC.

Voucher: WIEHLER 77109 (HT: SEL!; IT:
K, NY, QCA, RPSC, US!), DODSON &
A. H. GENTRY 10329 (MO!, SEL!).

***Columnea atahualpae* J.F. Sm. & L.E.
Skog**

Ref.: Smith, J. F. & L. E. Skog (1993);
Smith, J. F. (1994).

Herb or epiphytic herb. Endemic. Andean.
1000-2000 m.

Prov.: ORO, ZAM.

Voucher: STEYERMARK 54228 (HT: F!),
ROSE ET AL. 23461 (NY!, US!).

***Columnea bilabiata* Seem.**

Syn.: *Columnea silvatica* C.V. Morton.
Ref.: Kvist, L. P. & L. E. Skog (1993).

Herb. Native. Coastal. 0-500 m.
Prov.: ESM.

Voucher: HOLM-NIELSEN ET AL. 25415
(AAU!, MO!).

***Columnea brenneri* (Wiehler) B.D.
Morley**

Syn.: *Trichantha brenneri* Wiehler.
Ref.: Wiehler, H. (1975); Renner, S. S. et
al. (1990); Kvist, L. P. & L. E. Skog
(1993); Kvist, L. P. & L. E. Skog (1994).

Epiphytic herb. Endemic. Andean and
Amazonian. 0-1500 m.

Prov.: MOR, NAP, PAS, ZAM.

Voucher: WIEHLER 72335 (HT: US!; IT:
SEL), HOLM-NIELSEN ET AL. 4440 (AAU!).

***Columnea byrsina* (Wiehler) L.P.
Kvist & L.E. Skog**

Syn.: *Pentadenia byrsina* Wiehler.
Ref.: Wiehler, H. (1977); Kvist, L. P. & L.
E. Skog (1993); Jørgensen, P. M. & C.
Ulloa U. (1994); Kvist, L. P. & L. E.
Skog (1994); Smith, J. F. (1994).

Herb, shrub, or epiphyte. Native. Coastal
and Andean. 500-2000 m.

- Prov.: CAR, ESM, NAP, PIC.
Voucher: WIEHLER 77122 (HT: SEL!; IT: COL, K, NY, QCA, S, US), BALSLEV & E. MADSEN 10575 (AAU!, COL!, MO!, SEL!(2), U!).
- Columnea capillosa* L.P. Kvist & L.E. Skog**
Syn.: *Dalbergaria capillosa* (L.P. Kvist & L.E. Skog) Wiehler.
Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995).
Herb, shrub, or epiphyte. Endemic. Andean and Amazonian. 500–2500 m.
Prov.: NAP, PAS, TUN.
Voucher: H. LUGO 1158 (HT: GB!; IT: SEL!), CROAT 50537 (MO!, US!).
- Columnea ciliata* (Wiehler) L.P. Kvist & L.E. Skog**
Syn.: *Trichantha ciliata* Wiehler.
Ref.: Wiehler, H. (1977); Kvist, L. P. & L. E. Skog (1993).
Herb, shrub, or epiphyte. Native. Coastal and Andean. 500–1500 m.
Prov.: CAR, ESM, IMB, PIC.
Voucher: MADISON 4065 (HT: SEL!), W. B. DREW ET AL. E-34 (NY!, US!).
- Columnea colombiana* (Wiehler) L.P. Kvist & L.E. Skog**
Syn.: *Pentadenia colombiana* Wiehler.
Ref.: Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
Epiphyte. Native. Coastal. 0–500 m.
Prov.: ESM.
Voucher: L. P. KVIST 48268 (AAU, QCA, QCNE, US).
- Columnea consanguinea* Hanst.**
Syn.: *Dalbergaria consanguinea* (Hanst.) Wiehler.
Ref.: Kvist, L. P. & L. E. Skog (1994).
Epiphyte. Native. Coastal. 0–500 m.
Prov.: ESM.
Voucher: MADISON ET AL. 5219 (SEL!).
- Columnea crassicaulis* (Wiehler) L.P. Kvist & L.E. Skog**
Syn.: *Pentadenia crassicaulis* Wiehler.
Ref.: Wiehler, H. (1977); Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994); Smith, J. F. (1994).
Herb or epiphytic herb. Native. Andean. 1500–2000 m.
Prov.: CAR, PIC.
Voucher: DRESSLER 4926 (SEL!).
- Columnea dictyophylla* Donn. Sm.**
Syn.: *Ortholoma dictyophyllum* (Donn. Sm.) Wiehler, *Trichantha dictyophylla* (Donn. Sm.) Wiehler.
Herb or epiphytic herb. Native. Provenance uncertain. Elevation uncertain.
- Prov.: No province recorded.
Voucher: POORTMAN 320 (P!(2)).
- Columnea dissimilis* C.V. Morton**
Syn.: *Columnea translucens* Raymond, *Ortholoma dissimile* (C.V. Morton) Wiehler, *Trichantha dissimilis* (C.V. Morton) Wiehler.
Ref.: Kvist, L. P. & L. E. Skog (1993).
Herb. Native. Coastal. 0–1000 m.
Prov.: CAR, ESM, IMB, PIC.
Voucher: TIPAZ ET AL. 2192 (MO!, QCNE).
- Columnea eburnea* (Wiehler) L.P. Kvist & L.E. Skog**
Syn.: *Dalbergaria eburnea* Wiehler.
Ref.: Wiehler, H. (1981); Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994); Kvist, L. P. & L. E. Skog (1994).
Herb, shrub, or epiphyte. Native. Coastal and Andean. 0–3000 m.
Prov.: CAR, COT, IMB, PAS, PIC.
Voucher: WIEHLER & MASTERTON 79108 (HT: SEL!), DODSON ET AL. 7886 (MO!, SEL!).
- Columnea elongatifolia* L.P. Kvist & L.E. Skog**
Syn.: *Trichantha angustifolia* Wiehler hom. illeg.
Ref.: Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
Epiphyte. Endemic. Andean and Amazonian. 500–1500 m.
Prov.: NAP, PAS.
Voucher: WIEHLER 80202 (HT: SEL!), DODSON ET AL. 15062 (MO!, US!).
- Columnea ericae* Mansf.**
Syn.: *Columnea archidonae* Cuatrec., *Dalbergaria archidonae* (Cuatrec.) Wiehler, *Dalbergaria ericae* (Mansf.) Wiehler.
Ref.: Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb. Native. Andean and Amazonian. 0–3000 m.
Prov.: MOR, NAP, PAS, SUC, TUN, ZAM.
Voucher: BRANDBYGE ET AL. 32643 (NT: AAU!; INT: US!), SKUTCH 4418 (F!, GH!, MO!, NY!, US!).
- Columnea eubracteata* Mansf.**
Syn.: *Dalbergaria eubracteata* (Mansf.) Wiehler.
Ref.: Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb or shrub. Endemic. Andean. 1500–2500 m.
Prov.: AZU, CAR, ORO, NAP, PIC.
Voucher: MEXIA 7463 (NT: US!(2); INT: AAU!), ANDRÉ 3651 (MO!).
- Columnea filifera* (Wiehler) L.E. Skog & L.P. Kvist**
Syn.: *Dalbergaria filifera* Wiehler, *Columnea fililoba* L.P. Kvist & L.E. Skog.
Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995); Skog, L. E. & L. P. Kvist (1997).
Herb or subshrub. Native. Coastal and Andean. 500–1000 m.
Prov.: CAR, ESM.
Voucher: WIEHLER ET AL. 9033 (HT: GES; IT: QCA, US), L. P. KVIST ET AL. 48997 (AAU!, QCA!, QCNE!, US!).
Note: Type not seen; duplicates not distributed.
- Columnea fimbricalyx* L.P. Kvist & L.E. Skog**
Syn.: *Trichantha fimbricalyx* (L.P. Kvist & L.E. Skog) Wiehler.
Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995).
Epiphytic herb. Native. Coastal. 500–1000 m.
Prov.: CAR.
Voucher: L. P. KVIST ET AL. (HT: AAU!; IT: QCA!, QCNE!, SEL!, US!), P. JØRGENSEN ET AL. 65225B (AAU).
- Columnea flexiflora* L.P. Kvist & L.E. Skog**
Syn.: *Trichantha dodsonii* Wiehler hom. illeg.
Ref.: Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
Epiphytic herb. Endemic. Andean. 1500–2000 m.
Prov.: MOR, ZAM.
Voucher: WIEHLER 80201 (HT: SEL!), CAMP E-1367 (NY!, US!).
- Columnea formosa* (C.V. Morton) C.V. Morton**
Syn.: *Trichantha formosa* C.V. Morton, *Ortholoma formosa* (C.V. Morton) Wiehler.
Epiphytic herb. Native. Andean. 1500–2000 m.
Prov.: NAP.
Voucher: BRANDBYGE ET AL. 698 (GB!, US!).
- Columnea fuscihirta* L.P. Kvist & L.E. Skog**
Syn.: *Dalbergaria fuscihirta* (L.P. Kvist & L.E. Skog) Wiehler.
Ref.: Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994); Wiehler, H. (1995).
Epiphyte. Native. Andean. 1000–2500 m.
Prov.: CAR, NAP, PIC, ZAM.
Voucher: A. H. GENTRY & E. SCHUPP 26590 (HT: AAU!; IT: MO!), J. JARAMILLO 8265 (MO!, US!).

- Columnnea gigantifolia* L.P. Kvist & L.E. Skog**
 Syn.: *Dalbergaria gigantifolia* (L.P. Kvist & L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995).
 Epiphytic shrub. Native. Coastal and Andean. 500–2000 m.
 Prov.: CAR.
 Voucher: BARFOD 41587 (AAU! QCA, SEL).
- Columnnea guttata* Poepp.**
 Syn.: *Dalbergaria guttata* (Poepp.) Wiehler, *Dalbergaria puyana* Wiehler, *Dalbergaria madisonii* Wiehler, *Dalbergaria evolvens* Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
 Herb, shrub, epiphyte, or hemiepiphyte. Native. Andean and Amazonian. 500–2000 m.
 Prov.: ORO, GUA, RIO, MOR, NAP, PAS, PIC, TUN, ZAM.
 Voucher: SKUTCH 4467 (F!, MO!, NY!, US!).
- Columnnea herthae* Mansf.**
 Syn.: *Ortholoma herthae* (Mansf.) Wiehler, *Trichantha herthae* (Mansf.) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
 Epiphytic herb. Native. Coastal. 0–1000 m.
 Prov.: ESM, RIO, PIC.
 Voucher: LOJNTANT & MOLAU 15808 (NT: AAU!), MEXIA 8410A (US!).
- Columnnea inaequilatera* Poepp.**
 Syn.: *Columnnea ascendens* Rusby, *Columnnea inaequilatera* var. *rhonhofiae* Mansf., *Dalbergaria inaequilatera* (Poepp.) Wiehler, *Pentadenia ascendens* (Rusby) Wiehler.
 Ref.: Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
 Herb. Native. Andean and Amazonian. 0–2000 m.
 Prov.: MOR, NAP, PAS, SUC, TUN, ZAM.
 Voucher: J. JARAMILLO 6844 (MO!).
- Columnnea isernii* Cuatrec.**
 Syn.: *Pentadenia isernii* (Cuatrec.) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Smith, J. F. (1994).
 Herb or epiphytic herb. Native. Andean. 1000–1500 m.
 Prov.: BOL, CAÑ, LOJ.
 Voucher: ISERN Y BATLLÓ 502 (HT: MA!; photo: F, MO), HARLING & L. ANDERSSON 22199 (GB!, US!).
- Columnnea kalbreyeriana* Mast.**
 Syn.: *Columnnea kahlbreyeri* Hook. f., *Columnnea citrina* C.V. Morton, *Columnnea conferta* C.V. Morton, *Dalbergaria kalbreyeriana* (Mast.) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993).
 Herb or shrub. Native. Coastal. 500–1000 m.
 Prov.: ESM.
 Voucher: MADISON ET AL. 5231 (SEL!).
- Columnnea katzensteinii* (Wiehler) L.E. Skog & L.P. Kvist**
 Syn.: *Pentadenia katzensteinii* Wiehler, *Columnnea lavandulacea* L.P. Kvist & L.E. Skog.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994); Wiehler, H. (1995); Skog, L. E. & L. P. Kvist (1997).
 Epiphytic herb. Endemic. Andean. 1500–2000 m.
 Prov.: CAR, MOR, PIC.
 Voucher: WIEHLER ET AL. 88128 (HT: GES; IT: F, K, MO, NY, QCA, US), STEYERMARK 52572 (F!, MO!, US!).
 Note: Type not seen; duplicates not distributed.
- Columnnea kienastiana* Regel**
 Syn.: *Columnnea dodsonii* Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
 Herb. Native. Coastal. 0–1000 m.
 Prov.: AZU, ESM, RIO, MAN, PIC.
 Voucher: J. L. CLARK ET AL. 2476 (MO!, QCNE!, SRP!, US!).
- Columnnea laevis* L.P. Kvist & L.E. Skog**
 Syn.: *Trichantha laevis* (L.P. Kvist & L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995).
 Epiphytic herb. Native. Coastal. 500–1000 m.
 Prov.: CAR, ESM.
 Voucher: ØLLGAARD ET AL. (HT: AAU!; IT: COL!, G, GB, MO!, NY!, QCA!, QCNE, SEL, US!), L. P. KVIST ET AL. 48794 (AAU!, QCA!, QCNE!).
- Columnnea lehmannii* Mansf.**
 Syn.: *Ortholoma lehmannii* (Mansf.) Wiehler, *Trichantha lehmannii* (Mansf.) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993).
 Herb. Native. Coastal. 500–1000 m.*
 Prov.: CAR, ESM.
 Voucher: L. P. KVIST ET AL. 48983 (AAU!).
- Columnnea longinervosa* L.P. Kvist & L.E. Skog**
 Syn.: *Dalbergaria longinervosa* (L.P. Kvist & L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995).
 Liana or epiphyte. Native. Coastal. 500–1000 m.
 Prov.: CAR.
 Voucher: BARFOD 41507 (AAU!).
- Columnnea lophophora* Mansf.**
 Syn.: *Pentadenia lophophora* (Mansf.) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Smith, J. F. (1994).
 Herb or epiphytic herb. Native. Andean. 1500–2500 m.
 Prov.: CHI.
 Voucher: ROSE & G. ROSE 22281 (NT: US!; INT: NY!), ROSE & G. ROSE 23880 (US!).
- Columnnea manabiana* (Wiehler) J.F. Sm. & L.E. Skog**
 Syn.: *Pentadenia manabiana* Wiehler.
 Ref.: Smith, J. F. & L. E. Skog (1993); Smith, J. F. (1994); Wiehler, H. (1995).
 Epiphytic herb. Endemic. Coastal. 0–500 m.
 Prov.: ORO, MAN, PIC.
 Voucher: WIEHLER 87102 (HT: GES; IT: B, F, HBG, K, MO, NY, SEL, U, US), DODSON ET AL. 9170 (MO!, SEL!, US!).
 Note: Type not seen; duplicates not distributed.
- Columnnea mastersonii* (Wiehler) L.E. Skog & L.P. Kvist**
 Syn.: *Dalbergaria mastersonii* Wiehler, *Columnnea cinerea* L.P. Kvist & L.E. Skog.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994); Wiehler, H. (1995); Skog, L. E. & L. P. Kvist (1997).
 Herb, subshrub, shrub, or epiphyte. Endemic. Andean. 1000–3000 m.
 Prov.: AZU, CAR, CHI, RIO, PIC.
 Voucher: WIEHLER & MASTERSON 7968 (HT: GES; IT: QCA, NY, SEL!, U, US), A. H. GENTRY ET AL. 12114 (MO!, US!).
- Columnnea matudae* (Wiehler) L.P. Kvist & L.E. Skog**
 Syn.: *Pentadenia matudae* Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994).
 Herb. Native. Andean. 1000–3000 m.
 Prov.: ORO, LOJ.
 Voucher: HARLING ET AL. 15313 (GB!, SEL!).
- Columnnea medicinalis* (Wiehler) L.E. Skog & L.P. Kvist**
 Syn.: *Dalbergaria medicinalis* Wiehler, *Columnnea densibracteata* L.P. Kvist & L.E. Skog.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994); Wiehler, H. (1995); Skog, L. E. & L. P. Kvist (1997).
 Herb, shrub, or epiphyte. Native. Coastal and Andean. 0–3000 m.
 Prov.: AZU, CAÑ, CAR, COT, ORO, ESM, RIO, MAN, PIC.
 Voucher: WIEHLER ET AL. 88215 (HT: GES; IT: K, MO, NY, QCA, SEL, US), L. P. KVIST & BARFOD 49087 (AAU!, US!).

- Note: Type not seen; duplicates not distributed.
- Columnnea microsepala* (C.V. Morton) L.P. Kvist & L.E. Skog**
 Syn.: *Alloplectus microsepalus* C.V. Morton, *Pentadenia microsepala* (C.V. Morton) Wiehler, *Pentadenia zapotalana* Wiehler, *Columnnea zapotalana* (Wiehler) L.E. Skog.
 Ref.: Kvist, L. P. & L. E. Skog (1993).
 Epiphytic herb. Native. Coastal and Andean. 0–2000 m.
 Prov.: AZU, BOL, COT, ORO, ESM, GUA, RIO, MAN, PIC.
 Voucher: DODSON ET AL. 8891 (MO!, SEL!).
- Columnnea minor* (Hook.) Hanst.**
 Syn.: *Trichantha major* Hook., *Trichantha minor* Hook., *Columnnea major* (Hook.) Hanst., *Columnnea martiana* Kuntze, *Trichantha bullata* C.V. Morton, *Trichantha clara* C.V. Morton, *Trichantha elegans* Rose ex C.V. Morton, *Trichantha teuscheri* C.V. Morton, *Trichantha tropicalis* C.V. Morton, *Columnnea teuscheri* (C.V. Morton) H.E. Moore, *Columnnea bullata* (C.V. Morton) C.V. Morton, *Columnnea clara* (C.V. Morton) C.V. Morton, *Columnnea elegans* (Rose ex C.V. Morton) C.V. Morton, *Columnnea tropicalis* (C.V. Morton) C.V. Morton, *Ortholoma tropicale* (C.V. Morton) Wiehler, *Ortholoma clarum* (C.V. Morton) Wiehler, *Ortholoma minor* (Hook.) Wiehler.
 Ref.: Wiehler, H. (1977); Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994); Kvist, L. P. & L. E. Skog (1994).
 Herb, vine, or epiphyte. Native. Coastal and Andean. 0–2500 m.
 Prov.: AZU, BOL, CAR, COT, ORO, ESM, GUA, RIO, PIC.
 Voucher: DODSON & P. M. DODSON 6757 (RPSC, SEL!).
- Columnnea minutiflora* L.P. Kvist & L.E. Skog**
 Syn.: *Trichantha minutiflora* (L.P. Kvist & L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995).
 Epiphytic herb. Native. Coastal and Andean. 500–1500 m.
 Prov.: CAR, ESM.
 Voucher: MADISON ET AL. (HT: AAU!, IT: F, SEL!), L. P. KVIST ET AL. 48655 (AAU!, QCA!, SEL!, US!).
- Columnnea nariniana* (Wiehler) L.P. Kvist & L.E. Skog**
 Syn.: *Bucinella nariniana* Wiehler, *Bucinellina nariniana* (Wiehler) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).
 Herb. Native. Coastal. 500–1000 m.
- Prov.: CAR.
 Voucher: L. P. KVIST ET AL. 48815 (AAU!).
- Columnnea nervosa* (Klotzsch ex Oerst.) Hanst.**
 Syn.: *Pentadenia nervosa* Klotzsch ex Oerst.
 Ref.: Smith, J. F. (1994).
 Herb or epiphytic herb. Native. Andean. 1000–3500 m.
 Prov.: LOJ, ZAM.
 Voucher: HARLING ET AL. 22156 (GB!, US!).
- Columnnea orientandina* (Wiehler) L.P. Kvist & L.E. Skog**
 Syn.: *Pentadenia orientandina* Wiehler.
 Ref.: Wiehler, H. (1977); Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994); Smith, J. F. (1994).
 Herb or epiphytic herb. Native. Andean. 1000–1500 m.
 Prov.: MOR, NAP, PAS.
 Voucher: WIEHLER 77123 (HT: SEL; IT: BH, F, GH, K, MO, NY, P, QCA, S, U, US!), L. P. KVIST 60439 (AAU, QCA, QCNE, US!).
- Columnnea ovatifolia* L.P. Kvist & L.E. Skog**
 Syn.: *Pentadenia ovatifolia* (L.P. Kvist & L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Jørgensen, P. M. & C. Ulloa U. (1994); Smith, J. F. (1994); Wiehler, H. (1995).
 Epiphytic herb. Endemic. Andean. 2000–3000 m.
 Prov.: BOL, CAR, PIC.
 Voucher: HARLING & L. ANDERSSON 12316 (HT: GB!, IT: SEL!), LUTEYN ET AL. 8830 (NY!).
- Columnnea picta* H. Karst.**
 Syn.: *Dalbergaria picta* (H. Karst.) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993).
 Epiphyte. Native. Coastal and Andean. 0–2000 m.
 Prov.: AZU, BOL, CAÑ, CAR, CHI, COT, ORO, ESM, GUA, IMB, RIO, MAN, PIC.
 Voucher: J. L. CLARK ET AL. 2501 (MO!, QCNE!, SRP!, US!).
- Columnnea poortmannii* (Wiehler) L.P. Kvist & L.E. Skog**
 Syn.: *Trichantha poortmannii* Wiehler.
 Ref.: Wiehler, H. (1984); Kvist, L. P. & L. E. Skog (1993); Smith, J. F. (1994).
 Herb. Endemic. Andean. 2000–2500 m.
 Prov.: LOJ, ZAM.
 Voucher: POORTMANN 265 (HT: P!, IT: P!), R. ESPINOSA 2259 (US!).
- Columnnea purpurimarginata* L.P. Kvist & L.E. Skog**
 Syn.: *Dalbergaria purpurimarginata* (L.P. Kvist & L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993).
- Epiphytic herb. Native. Coastal. 0–1000 m.
 Prov.: ESM.
 Voucher: MADISON ET AL. (HT: SEL!), L. P. KVIST ET AL. 48085 (AAU!).
- Columnnea rileyi* (Wiehler) J.F. Sm.**
 Syn.: *Pentadenia rileyi* Wiehler, *Columnnea leucerinea* L.P. Kvist & L.E. Skog.
 Ref.: Wiehler, H. (1992); Smith, J. F. (1994); Wiehler, H. (1995).
 Herb, shrub, or epiphyte. Endemic. Andean. 1500–2000 m.
 Prov.: NAP, PIC.
 Voucher: WIEHLER ET AL. 86243 (HT: GES; IT: F, K, MO, NY, QCA, SEL, US, US), HOLM-NIELSEN ET AL. 26106 (AAU!, COL, MO, QCA, SEL, US).
 Note: Type not seen; duplicates not distributed.
- Columnnea rosea* (C.V. Morton) C.V. Morton**
 Syn.: *Trichantha rosea* C.V. Morton, *Trichantha rosea* fo. *latifolia* C.V. Morton, *Trichantha rosea* fo. *viridis* C.V. Morton, *Columnnea rosea* fo. *latifolia* (C.V. Morton) C.V. Morton, *Columnnea rosea* fo. *viridis* (C.V. Morton) C.V. Morton, *Ortholoma roseum* (C.V. Morton) Wiehler.
 Epiphyte. Native. Andean. 2000–2500 m.
 Prov.: CAR.
 Voucher: W. S. HOOVER 2321 (MO!).
- Columnnea rubriacuta* (Wiehler) L.P. Kvist & L.E. Skog**
 Syn.: *Dalbergaria rubriacuta* Wiehler, *Dalbergaria variabilis* Wiehler.
 Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Kvist, L. P. & L. E. Skog (1993); Skog, L. E. & L. P. Kvist (1997).
 Epiphytic herb. Native. Coastal and Andean. 0–1500 m.
 Prov.: CAR, ORO, ESM, RIO, PIC.
 Voucher: WIEHLER & DODSON 7162 (HT: SEL; IT: K, NY, QCA, S, US), DODSON & A. H. GENTRY 6454 (RPSC, SEL!, US!).
- Columnnea rubibracteata* L.P. Kvist & L.E. Skog**
 Syn.: *Dalbergaria rubibracteata* (L.P. Kvist & L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1993); Wiehler, H. (1995).
 Epiphytic herb. Endemic. Coastal. 0–500 m.
 Prov.: ESM.
 Voucher: L. P. KVIST ET AL. 48087 (HT: AAU!, IT: QCA!, QCNE!), L. P. KVIST ET AL. 48420 (AAU!).

Columnnea rubricalyx* L.P. Kvist &*L.E. Skog**Syn.: *Trichantha rubricalyx* (L.P. Kvist & L.E. Skog) Wiehler.Ref.: Kvist, L. P. & L. E. Skog (1993);
Wiehler, H. (1995).Epiphytic herb. Native. Coastal. 0-1000 m.
Prov.: CAR, ESM.Voucher: ØLLGAARD ET AL. (HT: AAU!; IT:
QCA), BARFOD 41466 (AAU!, QCA, US).***Columnnea sanguinea* (Pers.) Hanst.**Syn.: *Besleria sanguinea* Pers.,
Dalbergaria phoenicea Tussac, *Vireya sanguinolenta* Raf., *Alloplectus sanguineus* (Pers.) G. Don, *Hematophyla villosa* Raf., *Dalbergaria sanguinea* (Pers.) Steud., *Collandra phoenicea* (Tussac) G. Don ex Loudon, *Collandra picta* Klotzsch & Hanst. hom. illeg., *Collandra sanguinea* (Pers.) Griseb., *Columnnea sanguinea* var. *cubensis* Urb., *Columnnea cubensis* (Urb.) Britton, *Alloplectus cubensis* (Urb.) Stearn.

Ref.: Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1993); Kvist, L. P. & L. E. Skog (1994).

Epiphyte. Native. Amazonian. 0-500 m.
Prov.: NAP.Voucher: KORNING & K. THOMSEN 47056
(AAU(2)).***Columnnea schimpffii* Mansf.**Syn.: *Dalbergaria schimpffii* (Mansf.)
Wiehler.Ref.: Kvist, L. P. & L. E. Skog (1993);
Kvist, L. P. & L. E. Skog (1994).Shrub, vine, or epiphyte. Endemic.
Coastal. 0-500 m.Prov.: AZU, BOL, COT, ORO, GUA,
RIO, MAN.Voucher: SCHIMPF 483 (LT: G!; ILT: MO!;
photo: F, MO, US(all of G)), HOLM-
NIELSEN ET AL. 2707 (AAU!, MO!, NY!).***Columnnea spathulata* Mansf.**Syn.: *Pentadenia spathulata* (Mansf.)
Wiehler, *Pentadenia rubriacuta* Wiehler.Ref.: Wiehler, H. (1977); Kvist, L. P. & L.
E. Skog (1993); Kvist, L. P. & L. E.
Skog (1994); Smith, J. F. (1994);
Wiehler, H. (1995).Epiphytic herb. Native. Coastal and
Andean. 0-1500 m.Prov.: AZU, BOL, CAÑ, CAR, COT, ORO,
ESM, GUA, LOJ, RIO, MAN, PIC.Voucher: LÖJTNANT & MOLAU 15811 (NT:
AAU!), J. L. CLARK ET AL. 2420 (MO!,
QCNE!, SRP!, US!).***Columnnea strigosa* Benth.**Syn.: *Columnnea campanulata* Benth.,
Columnnea macrantha Benth., *Columnnea aurantiaca* Decne. ex Planch., *Pentadenia**aurantiaca* (Decne. ex Planch.) Hanst.,
Pentadenia strigosa (Benth.) Hanst.,
Columnnea pichinchensis Hanst., *Columnnea campanulata* var. *longipedunculata* Cuatrec., *Columnnea kucyniakii* Raymond.
Ref.: Kvist, L. P. & L. E. Skog (1993);
Jørgensen, P. M. & C. Ulloa U. (1994);
Kvist, L. P. & L. E. Skog (1994); Smith,
J. F. (1994).Herb, shrub, or epiphyte. Native. Andean.
1000-4000 m.Prov.: AZU, BOL, CAÑ, CAR, CHI,
COT, ESM, IMB, LOJ, MOR, NAP,
PAS, PIC, TUN, ZAM.Voucher: HARTWEG 1262 (HT: K; IT: BM,
CGE, E, FI-W, G, K, NY!, PI, W!;
photo: MO(G)), J. BOEKE 563 (AAU!,
MO!, NY!, QCA!, SEL!, US!).***Columnnea sulcata* L.E. Skog & L.P. Kvist**Ref.: Skog, L. E. & L. P. Kvist (1994).
Subshrub, shrub, or epiphyte. Native.

Coastal. 0-1000 m.

Prov.: ESM.

Voucher: DALY & ACEVEDO-RODRÍGUEZ
5155 (NY!).***Columnnea tandapiana* (Wiehler) L.E. Skog & L.P. Kvist**Syn.: *Pentadenia tandapiana* Wiehler,
Columnnea inconspicua L.P. Kvist &
L.E. Skog, *Pentadenia inconspicua* (L.P.
Kvist & L.E. Skog) Wiehler.Ref.: Kvist, L. P. & L. E. Skog (1993);
Wiehler, H. (1995); Skog, L. E. & L. P.
Kvist (1997).Epiphytic herb. Native. Andean. 1000-
2000 m.

Prov.: AZU, COT, MOR, PIC.

Voucher: WIEHLER ET AL. 90133 (HT:
GES; IT: QCA, US), HARLING & L.
ANDERSSON 19225 (GB!, US!).***Columnnea tenella* L.P. Kvist & L.E. Skog**Syn.: *Trichantha gracilis* Wiehler,
Trichantha tenella Wiehler.Ref.: Kvist, L. P. & L. E. Skog (1993);
Wiehler, H. (1995).Epiphytic herb. Native. Coastal and
Andean. 500-1500 m.

Prov.: CAR, ESM.

Voucher: BARFOD 41577 (AAU!, COL,
QCA, SEL, US).***Columnnea tenensis* (Wiehler) B.D. Morley**Syn.: *Trichantha tenensis* Wiehler.Ref.: Wiehler, H. (1975); Renner, S. S. et
al. (1990); Kvist, L. P. & L. E. Skog
(1993); Kvist, L. P. & L. E. Skog (1994).

Herb. Endemic. Amazonian. 0-1000 m.

Prov.: MOR, NAP, PAS, SUC, TUN.

Voucher: WIEHLER 7318 (HT: US!; IT:
SEL(2)), BRANDBYGE & E. ASANZA
33788 (AAU!, US!).***Columnnea tessmannii* Mansf.**Syn.: *Dalbergaria tessmannii* (Mansf.)
Wiehler.Ref.: Kvist, L. P. & L. E. Skog (1993).
Epiphytic herb. Native. Andean. 1000-
2500 m.

Prov.: MOR, NAP, PAS, ZAM.

Voucher: L. P. KVIST ET AL. 60453 (AAU,
QCA, QCNE, US!).***Columnnea villosissima* Mansf.**Syn.: *Dalbergaria villosissima* (Mansf.)
Wiehler.Ref.: Renner, S. S. et al. (1990); Kvist, L.
P. & L. E. Skog (1993).Herb. Native. Andean and Amazonian. 0-
2000 m.

Prov.: MOR, NAP, PAS, SUC, TUN.

Voucher: HEINRICH 329 (NT: NY!; INT:
M!), L. P. KVIST 60426 (AAU!).***Corytoplectus* Oerst.**

4 species; 2 endemic species.

***Corytoplectus capitatus* (Hook.) Wiehler**Syn.: *Alloplectus capitatus* Hook.,
Alloplectus speciosus Hort ex Hook.,*Macrochlamys speciosus* Decne.,*Columnnea capitata* (Hook.) Kuntze,*Crantzia capitata* (Hook.) Fritsch.Herb. Endemic. Andean. 1000-1500 m.
Prov.: ZAM.

Voucher: HARLING ET AL. 24035 (GB!).

***Corytoplectus cutucuensis* Wiehler**

Ref.: Wiehler, H. (1995).

Herb. Endemic. Andean. 1000-2000 m.

Prov.: MOR, ZAM.

Voucher: WIEHLER 8406 (HT: GES).
WIEHLER ET AL. 8838 (GES, K, NY,
QCA, QCNE, US).Note: Material not seen; duplicates not
distributed.***Corytoplectus pulcher* (N.E. Br.) Wiehler**Syn.: *Hypocyrta pulchra* N.E. Br.

Ref.: Wiehler, H. (1978a); Wiehler, H. (1995).

Herb. Native. Andean. Elevation uncertain.

Prov.: ZAM.

Voucher: MADISON ET AL. 3328 (SEL).

***Corytoplectus speciosus* (Poepp.) Wiehler**Syn.: *Alloplectus speciosus* Poepp.,
Alloplectus corymbosus Klotzsch ex Hanst.,*Alloplectus bicolor* Linden, *Alloplectus**vittatus* Linden & André, *Columnnea**corymbosa* (Klotzsch ex Hanst.) Kuntze,*Columnnea poeppigiana* Kuntze, *Crantzia**corymbosa* (Klotzsch ex Hanst.) Fritsch,

- Crantzia speciosa* (Poepp.) Fritsch,
Crantzia vittata (Linden & André) Rech.
Herb. Native. Andean and Amazonian.
500–1500 m.
Prov.: MOR, ZAM.
Voucher: W. PALACIOS & M. TIRADO
13234 (MO!, QCNE!).
- Creosperma* Benth.**
10 species; 3 endemic species.
- Creosperma auriculatum* C.V. Morton**
Ref.: Kvist, L. P. & L. E. Skog (1988).
Herb. Endemic. Andean. 1000–1500 m.
Prov.: PAS.
Voucher: SPRUCE 5072 (HT: K; IT: BM,
CGE, E!, G, NY!, W(2)), PLOWMAN & E.
W. DAVIS 4545 (GH, SEL!).
- Creosperma castronum* C.V. Morton**
Ref.: Kvist, L. P. & L. E. Skog (1988).
Herb. Native. Coastal. 0–1000 m.
Prov.: CAR, ORO, ESM, RIO, PIC.
Voucher: B. HANSEN ET AL. 7813 (MO!,
SEL!, USF).
- Creosperma congruens* C.V. Morton**
Ref.: Kvist, L. P. & L. E. Skog (1988).
Herb. Native. Coastal, Andean, and
Amazonian. 0–2000 m.
Prov.: CAR, ESM, MOR.
Voucher: HARLING & L. ANDERSSON 24441
(GB!, US!).
- Creosperma ecuadoranum* L.P.
Kvist & L.E. Skog**
Ref.: Kvist, L. P. & L. E. Skog (1988);
Renner, S. S. et al. (1990).
Herb. Endemic. Andean and Amazonian.
0–1500 m.
Prov.: NAP, PAS, SUC, ZAM.
Voucher: BRANDBYGE ET AL. 30462 (HT:
AAU!, IT: US!), HARLING & L.
ANDERSSON 24094 (GB!).
- Creosperma hirsutissimum* Benth.**
Syn.: *Besleria hirsutissima* (Benth.)
Fritsch, *Creosperma album* C.V.
Morton, *Creosperma pusillum* var.
ecuadorensis C.V. Morton,
Creosperma demissum C.V. Morton,
Creosperma monticola C.V. Morton,
Creosperma rotundatum C.V. Morton.
Ref.: Kvist, L. P. & L. E. Skog (1988).
Herb. Native. Coastal, Andean, and
Amazonian. 0–1000 m and 1500–2500 m.
Prov.: CAR, MOR, PAS, PIC.
Voucher: JA. HUDSON 889 (MO!, US!).
Infras.: *Creosperma hirsutissimum* var.
album (C.V. Morton) L.P. Kvist & L.E.
Skog, *Creosperma hirsutissimum* var.
demissum (C.V. Morton) L.P. Kvist &
L.E. Skog, *Creosperma hirsutissimum*
var. *glabrum* L.P. Kvist & L.E. Skog,
Creosperma hirsutissimum var.
- hirsutissimum*
(Poepp.) Benth. ex Müll. Hal.
Herb. Native. Coastal. 500–1000 m.
Prov.: COT.
Voucher: DODSON ET AL. 10629 (MO!).
- Creosperma humidum* L.P. Kvist &
L.E. Skog**
Ref.: Kvist, L. P. & L. E. Skog (1988).
Epiphytic herb. Native. Coastal and
Andean. 500–1500 m.
Prov.: CAR.
Voucher: L. P. KVIST ET AL. 48977 (HT:
AAU!).
Note: Known in Ecuador only from the type.
- Creosperma muscicola* L.P. Kvist &
L.E. Skog**
Ref.: Kvist, L. P. & L. E. Skog (1988).
Epiphytic herb. Native. Coastal and
Andean. 500–1500 m.
Prov.: CAR.
Voucher: L. P. KVIST ET AL. 48978 (HT:
AAU!, IT: US!).
Note: Known in Ecuador only from the type.
- Creosperma nobile* C.V. Morton**
Ref.: Kvist, L. P. & L. E. Skog (1988).
Herb. Native. Coastal. 500–1000 m.
Prov.: CAR.
Voucher: BARFOD 41651 (AAU!).
- Creosperma pusillum* C.V. Morton**
Ref.: Kvist, L. P. & L. E. Skog (1988);
Jørgensen, P. M. & C. Ulloa U. (1994).
Herb. Native. Andean. 1500–3500 m.
Prov.: LOJ, MOR, ZAM.
Voucher: HARLING & L. ANDERSSON 21414
(GB!, US!).
- Creosperma reldioides* L.P. Kvist &
L.E. Skog**
Ref.: Kvist, L. P. & L. E. Skog (1988).
Epiphytic herb. Endemic. Coastal and
Andean. 500–1500 m.
Prov.: CAR.
Voucher: L. P. KVIST ET AL. 48980 (HT:
AAU!).
Note: Known only from the type.
- Diastema* Benth.**
9 species; 3 endemic species.
- Diastema affine* Fritsch**
Ref.: Fritsch, K. (1913); Renner, S. S. et
al. (1990).
Herb. Native. Coastal, Andean, and
Amazonian. 0–1500 m.
Prov.: AZU, CAÑ, CAR, COT, ESM, GUA,
RIO, MOR, NAP, PAS, PIC, TUN.
Voucher: SODIRO 119/12 (HT: B destr.), J.
L. CLARK ET AL. 2512 (MO!, QCNE!,
SRP!, US!).
- Diastema comiferum* (DC.) Benth. ex
Walp.**
Syn.: *Achimenes comifera* DC., *Trevirana*
discolor Poepp., *Trevirana comifera*
(DC.) D. Dietr., *Diastema discolor*
- (Poepp.) Benth. ex Müll. Hal.*
Herb. Native. Coastal. 500–1000 m.
Prov.: COT.
Voucher: DODSON ET AL. 10629 (MO!).
- Diastema eggersianum* Fritsch**
Ref.: Fritsch, K. (1913); Wiehler, H. (1977);
Dodson, C. H. & A. H. Gentry (1978a).
Herb. Native. Coastal. 0–500 m.
Prov.: MAN.
Voucher: EGGERS 15021 (HT: B destr.; IT:
L, K, M, P, US! frag.; photo: F(M)).
Note: Known in Ecuador only from the
type. Report from RIO was based on
misidentified material of *D. affine*.
- Diastema gymnoleuca* Gilli**
Ref.: Gilli, A. (1983).
Herb. Endemic. Andean. 1000–1500 m.
Prov.: PIC.
Voucher: GILLI 154 (HT: W).
Note: Known only from the type.
- Diastema hispidum* (DC.) Fritsch**
Syn.: *Episcia hispida* DC., *Trevirana mollis*
Poepp., *Achimenes mollis* (Poepp.) Walp.,
Diastema molle (Poepp.) Benth. ex Walp.,
Diastema peruanum Cuatrec.
Ref.: Fritsch, K. (1913).
Herb. Native. Coastal and Andean. 500–
3000 m.
Prov.: CAÑ, CAR, COT, PAS, TUN, ZAM.
Voucher: CROAT 50885 (MO!, US!).
- Diastema incisum* Benth.**
Herb. Endemic. Andean. 2000–2500 m.
Prov.: PIC.
Voucher: HARTWEG 1265 (HT: K; IT: BM!,
CGE, E!, FI-W!, G(2), K, P(2), W(2);
photo: F(G), MO(G!)), JAMESON 86 (FI-W!).
- Diastema racemiferum* Benth.**
Syn.: *Diastema ochroleucum* Hook.,
Diastema longiflorum Benth.,
Achimenes punctata Moritz ex Hanst.,
Diastema caracasana Klotzsch &
Hanst., *Diastemella bracteosa* Oerst.,
Diastema bracteosum (Oerst.) Hanst.,
Diastema cristatum Hanst., *Diastema*
exiguum C.V. Morton, *Diastema*
exiguum var. *lilacinum* C.V. Morton.
Ref.: Dodson, C. H. et al. (1985).
Herb. Native. Coastal, Andean, and
Amazonian. 0–1500 m.
Prov.: AZU, CAR, CHI, COT, ORO,
ESM, GUA, LOJ, RIO, MAN, MOR,
PAS, PIC, ZAM.
Voucher: G.W. BARCLAY & HINDS 541?
(HT: BM), DODSON ET AL. 6933 (GUAY.
MO!, SEL!).
- Diastema scabrum* (Poepp.) Benth. ex
Walp.**
Syn.: *Trevirana scabra* Poepp.,
Achimenes scabra (Poepp.) Walp.

- Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Renner, S. S. et al. (1990).
Herb. Native. Coastal, Andean, and Amazonian. 0–1500 m.
Prov.: AZU, CAÑ, COT, ESM, GUA, RIO, MOR, NAP, PAS, PIC, SUC, TUN, ZAM.
Voucher: J. L. CLARK ET AL. 982 (MO!, QCNE!, US!).
- Diastema sodiroanum** Fritsch
Ref.: Fritsch, K. (1913).
Herb. Endemic. Provenance uncertain. Elevation uncertain.
Prov.: No province recorded.
Voucher: SODIRO 119/4 (HT: B destr.).
Note: Known only from the type.
- Drymonia** Mart.
27 species; 9 endemic species.
- Drymonia affinis** (Mansf.) Wiehler
Syn.: *Alloplectus affinis* Mansf.
Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Andean and Amazonian. 0–1500 m.
Prov.: MOR, NAP, PAS, TUN, ZAM.
Voucher: BRANDBYGE & E. ASANZA 30020 (AAU, MO!, US!).
- Drymonia alloplectoides** Hanst.
Syn.: *Drymonia alloplectoides* var. *vallicola* C.V. Morton.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Vine or epiphyte. Native. Coastal. 0–500 m.
Prov.: ESM, RIO, PIC.
Voucher: W. PALACIOS 2614 (MO!, US!).
- Drymonia anisophylla** L.E. Skog & L.P. Kvist
Ref.: Skog, L. E. & L. P. Kvist (1994).
Shrub, vine, liana, or epiphyte. Native. Amazonian. 0–500 m.
Prov.: NAP, SUC.
Voucher: C. CERÓN & N. GALLO 5095 (MO!, US!).
- Drymonia brochidodroma** Wiehler
Ref.: Wiehler, H. (1995).
Epiphytic herb. Native. Coastal and Andean. 0–2000 m.
Prov.: CAR, ESM, PIC.
Voucher: A. H. GENTRY & SHUPP 26597 (MO, SEL!).
- Drymonia candida** Hanst.
Epiphyte. Native. Amazonian. 0–500 m.
Prov.: MOR, NAP, PAS.
Voucher: C. CERÓN & M. CERÓN 4564 (MO!, US!).
- Drymonia chiribogana** Wiehler
Ref.: Wiehler, H. (1995).
Epiphytic subshrub. Endemic. Andean.
- 1000–1500 m.
Prov.: PIC.
Voucher: WIEHLER ET AL. 88222 (HT: GES; IT: K, NY, QCA, US), WIEHLER & MASTERTON 79107 (GES, K, MO, NY, QCA, US).
Note: Material not seen; duplicates not distributed.
- Drymonia coccinea** (Aubl.) Wiehler
Syn.: *Besleria coccinea* Aubl., *Alloplectus circinatus* Mart., *Alloplectus coccineus* (Aubl.) Mart., *Lophalix coccinea* (Aubl.) Raf., *Macrochlamys miquelii* Decne., *Columnnea circinata* (Mart.) Kuntze, *Columnnea coccinea* (Aubl.) Kuntze, *Crantzia circinata* (Mart.) Fritsch, *Crantzia coccinea* (Aubl.) Fritsch, *Alloplectus coccineus* var. *fusco-maculatus* Leeuwenb.
Vine or liana. Native. Andean and Amazonian. 0–1500 m.
Prov.: MOR, NAP, SUC, TUN, ZAM.
Voucher: LUTEYN ET AL. 8585 (CAS!, US!).
- Drymonia coriacea** (Oerst. ex Hanst.) Wiehler
Syn.: *Erythranthus coriaceus* Oerst. ex Hanst., *Alloplectus coriaceus* (Oerst. ex Hanst.) Hanst., *Columnnea coriacea* (Oerst. ex Hanst.) Kuntze, *Crantzia coriacea* (Oerst. ex Hanst.) Fritsch, *Alloplectus ventricosus* Donn. Sm.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Renner, S. S. et al. (1990).
Hemiepiphyte. Native. Coastal and Amazonian. 0–1000 m.
Prov.: CAR, ESM, IMB, RIO, NAP, PIC.
Voucher: D. RUBIO ET AL. 2148 (MO!, US!).
- Drymonia crenatiloba** (Mansf.) Wiehler
Syn.: *Alloplectus crenatilobus* Mansf.
Epiphyte. Endemic. Amazonian. 500–1000 m.
Prov.: PAS.
Voucher: SCHULTZE-RHONHOFF 1850 (HT: B destr.), GILMARTIN 617 (US!).
- Drymonia ecuadorensis** Wiehler
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Epiphyte. Endemic. Coastal. 0–500 m and 1500–2000 m.
Prov.: AZU, COT, GUA, RIO, MAN, PIC.
Voucher: WIEHLER 7106 (HT: SEL; IT: K, NY, QCA, S, US), DODSON ET AL. 7266 (SEL!).
Note: Type not seen; duplicates not distributed.
- Drymonia hoppii** (Mansf.) Wiehler
Syn.: *Alloplectus hoppii* Mansf.
Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Andean and Amazonian.
- 0–1500 m.
Prov.: MOR, NAP, PAS, ZAM.
Voucher: HOPP 1032 (ST: B), W. PALACIOS 2207 (MO!, US!).
- Drymonia killipii** Wiehler
Ref.: Wiehler, H. (1977).
Shrub, vine, or epiphyte. Native. Andean. 0–500 m and 1000–2000 m.
Prov.: CAR, ESM, PIC.
Voucher: V. ZAK 1052 (MO!, US!).
- Drymonia laciniosa** Wiehler
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Epiphyte. Endemic. Coastal. 0–500 m.
Prov.: RIO, PIC.
Voucher: WIEHLER & DODSON 71309 (HT: SEL; IT: K, NY, QCA, S, US), DODSON & A. H. GENTRY 10039 (MO!, SEL!).
Note: Type not seen; duplicates not distributed.
- Drymonia macrophylla** (Oerst.) H.E. Moore
Syn.: *Caloplectus macrophyllus* Oerst., *Drymonia mucronulosa* Hanst., *Alloplectus macrophyllus* (Oerst.) Hemsl., *Columnnea macrophylla* (Oerst.) Kuntze, *Drymonia ochroleuca* Standl., *Drymonia belizensis* Standl., *Drymonia rosea* C.V. Morton.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Renner, S. S. et al. (1990).
Shrub or liana. Native. Coastal. Andean, and Amazonian. 0–1500 m.
Prov.: CAR, ESM, GUA, RIO, MOR, NAP, PAS, PIC, SUC, TUN, ZAM.
Voucher: BALSLEV ET AL. 84878 (AAU, MO!).
- Drymonia oxysepala** Leeuwenb.
Epiphyte. Native. Amazonian. 0–500 m.
Prov.: NAP.
Voucher: C. CERÓN 1106 (MO!, US!).
- Drymonia pendula** (Poepp.) Wiehler
Syn.: *Alloplectus pendulus* Poepp., *Columnnea endlicheriana* Kuntze, *Crantzia pendula* (Poepp.) Fritsch.
Ref.: Renner, S. S. et al. (1990).
Shrub, vine, or epiphyte. Native. Amazonian. 0–1000 m.
Prov.: MOR, NAP, PAS, SUC, ZAM.
Voucher: D. A. NEILL ET AL. 7828 (MO!, US!).
- Drymonia pulchra** Wiehler
Ref.: Wiehler, H. (1977).
Herb or hemiepiphyte. Endemic. Amazonian. 0–1000 m.
Prov.: NAP, PAS.
Voucher: WIEHLER 7167 (HT: SEL; IT: BH, K, MO, NY, P, QCA, S, U, US), W. PALACIOS ET AL. 4920 (MO!, US!).

Note: Type not seen; duplicates not distributed.

***Drymonia punctulata* Wiehler**

Ref.: Wiehler, H. (1995).
Epiphytic subshrub. Endemic. Andean.
1000–1500 m.
Prov.: ORO.
Voucher: WIEHLER 9206 (HT: GES; IT:
QCA, MO, NY, SEL, US).

Note: Known only from the type. Material not seen; duplicates not distributed.

***Drymonia rhodoloma* Wiehler**

Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Epiphyte. Endemic. Coastal. 0–500 m.
Prov.: ESM, RIO.
Voucher: WIEHLER & DODSON 71311 (HT: SEL; IT: K, MO!, NY, QCA, S, US!), MADISON ET AL. 4984 (QCA!, SEL!).

***Drymonia semicordata* (Poepp.) Wiehler**

Syn.: *Alloplectus semicordatus* Poepp., *Columnnea semicordata* (Poepp.) Kuntze, *Crantzia semicordata* (Poepp.) Fritsch, *Alloplectus sylvarum* S. Moore, *Crantzia pseudocordata* Cuatrec.
Liana. Native. Andean and Amazonian. 0–1500 m.
Prov.: MOR, NAP, SUC, ZAM.
Voucher: HARLING ET AL. 11972 (GB!, SEL!, US!).

***Drymonia serrulata* (Jacq.) Mart.**

Syn.: *Besleria serrulata* Jacq., *Besleria spectabilis* Kunth, *Drymonia calcarata* Mart., *Drymonia bicolor* Lindl., *Drymonia jacquinii* G. Don, *Drymonia spectabilis* (Kunth) Mart. ex G. Don, *Alloplectus glaber* DC., *Besleria drymonia* Steud., *Drymonia cristata* Miq., *Drymonia sarmentulosa* Lem., *Drymonia mollis* Oerst., *Drymonia parvifolia* Griseb., *Columnnea mocinoana* Kuntze, *Drymonia maculata* S. Moore, *Drymonia buscalionii* Fritsch ex Buscal., *Drymonia poeppigiana* Fritsch, *Drymonia chiapensis* Brandege, *Drymonia campbellii* Rusby, *Drymonia glabra* (DC.) C.V. Morton, *Drymonia ulei* Wiehler.

Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Dodson, C. H. et al. (1985); Renner, S. S. et al. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).
Hemiepiphyte. Native. Coastal, Andean, and Amazonian. 0–3000 m.
Prov.: CAR, ORO, ESM, GUA, RIO, MOR, NAP, PAS, PIC, SUC, TUN, ZAM.
Voucher: DODSON ET AL. 9871 (GUAY, MO!, SEL!).

***Drymonia turrialvae* Hanst.**

Syn.: *Drymonia marmorata* Hook. f.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Herb. Native. Coastal and Andean. 0–2000 m.
Prov.: CAR, COT, ESM, IMB, RIO, NAP, PAS, PIC.
Voucher: W. S. HOOVER 1995 (MO!).

***Drymonia urceolata* Wiehler**

Syn.: *Hypocyrtia macrophylla* Poepp.
Ref.: Wiehler, H. (1978a); Renner, S. S. et al. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb or shrub. Native. Andean and Amazonian. 0–3000 m.
Prov.: MOR, NAP, PAS, TUN, ZAM.
Voucher: W. PALACIOS ET AL. 8606 (MO!, US!).

***Drymonia utuanensis* Wiehler**

Ref.: Wiehler, H. (1984).
Herb or subshrub. Endemic. Andean.
1500–2000 m.
Prov.: LOJ.
Voucher: POORTMANN 527 (HT: K; IT: P!(2)).
Note: Known only from the type.

***Drymonia variegata* Uribe**

Herb. Native. Andean. 1000–1500 m.
Prov.: CAR, MOR, NAP, PAS, TUN.
Voucher: R. C. MORAN & C. K. ROHRBACH 5111 (MO!, US!).

***Drymonia warscewicziana* Hanst.**

Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Renner, S. S. et al. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).
Hemiepiphyte. Native. Coastal, Andean, and Amazonian. 0–1500 m.
Prov.: CAR, COT, ORO, ESM, GUA, RIO, MOR, NAP, PAS, PIC, SUC, ZAM.
Voucher: B. A. STEIN 2622 (MO!, US!).

***Drymonia zamorana* Wiehler**

Herb. Endemic. Provenance uncertain.
Elevation uncertain.
Prov.: ZAM.
Voucher: POORTMANN 270 (HT: P!; IT: P!, U!).
Note: Known only from the type.

***Episcia* Mart.**

1 species.

***Episcia cupreata* (Hook.) Hanst.**

Syn.: *Achimenes cupreata* Hook.
Ref.: Renner, S. S. et al. (1990).
Herb. Native. Coastal and Amazonian. 0–500 m.
Prov.: GUA, SUC.
Voucher: F. M. VALVERDE 349 (US!).
Note: Probably introduced on the Coast.

***Gasteranthus* Benth.**

17 species; 11 endemic species.

***Gasteranthus atratus* Wiehler**

Ref.: Wiehler, H. (1978a).
Herb. Endemic. Coastal. 500–1000 m.
Prov.: COT, RIO, PIC.
Voucher: WIEHLER 78166 (HT: SEL; IT: AAU, BH, F, K, NY, QCA, S, U, US), DODSON ET AL. 7609 (SEL!).
Note: Type material not seen; duplicates not distributed.

***Gasteranthus calceolus* (Fritsch) Wiehler**

Syn.: *Besleria calceolus* Fritsch.
Herb. Endemic. Andean. Elevation uncertain.
Prov.: MOR, NAP, PAS, SUC, ZAM.
Voucher: SPRUCE 5069 (HT: B destr.; IT: BM, C!, CGE, E(2), G(3), GH, K(2)!, MPU, P, W(2)), H. LUGO 3500 (AAU!, FI, GB!, QCA!, SEL!, US!).

***Gasteranthus carinatus* Wiehler**

Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Herb. Endemic. Coastal. 0–500 m.
Prov.: AZU, COT, ORO, RIO.
Voucher: MADISON 3802 (HT: SEL!). STEYERMARK 54215 (FI, US!).

***Gasteranthus columbianus* (C.V. Morton) Wiehler**

Syn.: *Besleria columbiana* C.V. Morton.
Herb. Native. Andean. 1500–3500 m.
Prov.: CAR, IMB.
Voucher: J. L. CLARK 1746 (MO!, QCNE!, US!).

***Gasteranthus corallinus* (Fritsch) Wiehler**

Syn.: *Besleria corallina* Fritsch, *Besleria corallinoides* Fritsch, *Besleria crenata* C.V. Morton, *Gasteranthus crenatus* (C.V. Morton) Wiehler.
Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Coastal, Andean, and Amazonian. 0–2000 m.
Prov.: BOL, CAÑ, CAR, ESM, IMB, MOR, NAP, PAS, PIC, SUC.
Voucher: MADISON ET AL. 5317 (AAU!, FI, QCA!, SEL!, US!).

***Gasteranthus crispus* (Mansf.) Wiehler**

Syn.: *Halpophyllum crispum* Mansf.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Herb. Endemic. Coastal. 0–1000 m.
Prov.: ESM, RIO, PIC.
Voucher: A. SCHULTZE-RHONHOF 2031 (HT: B destr.), J. L. CLARK & B. ADNEPOS 58 (MO!, QCNE!).

***Gasteranthus imbaburensis* M. Freiberg**

Ref.: Freiberg, M. (1996).

- Herb or shrub. Endemic. Andean. 1500–2000 m.
Prov.: IMB.
Voucher: M. FREIBERG 96238 (HT: QCA!; IT: QCNE, ULM!).
Note: Known only from the type.
- Gasteranthus lateralis* (C.V. Morton) Wiehler**
Syn.: *Besleria lateralis* C.V. Morton, *Besleria venusta* C.V. Morton, *Gasteranthus venustus* (C.V. Morton) Wiehler, *Gasteranthus giganteus* M. Freiberg.
Herb. Endemic. Andean. 1000–2000 m.
Prov.: IMB, PIC.
Voucher: COUTHOUY S.N. (HT: GH!; IT: GH), A. H. GENTRY ET AL. 12125 (MO!, US!(2)).
- Gasteranthus leopardus* M. Freiberg**
Ref.: Freiberg, M. (1996).
Herb. Native. Andean. 1500–2500 m.
Prov.: CAR, IMB.
Voucher: M. FREIBERG 960214 (HT: QCA!; IT: QCNE, ULM!), J. L. CLARK ET AL. 2410 (MO, QCNE, SRP, US!).
- Gasteranthus macrocalyx* Wiehler**
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Herb. Endemic. Coastal. 500–1000 m.
Prov.: CAÑ, COT, RIO, PIC.
Voucher: MADISON 3806 (HT: SEL!), DODSON 7350 (MO!(2), SEL!).
- Gasteranthus oncogastrus* (Hanst.) Wiehler**
Syn.: *Besleria oncogastra* Hanst.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Renner, S. S. et al. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb or shrub. Native. Coastal, Andean, and Amazonian. 0–1500 m.
Prov.: AZU, BOL, CAÑ, CAR, ORO, ESM, GUA, RIO, MAN, MOR, PIC.
Voucher: RUIZ (BY TAFALLA?) S.N. (HT: B destr.; IT: US!), CORNEJO ET AL. 3356 (US!).
- Gasteranthus pansamalanus* (Donn. Sm.) Wiehler**
Syn.: *Besleria pansamalana* Donn. Sm., *Episcia aurea* Brandegees, *Besleria pansamalana* var. *ecuadorensis* Fritsch, *Besleria ecuadorensis* (Fritsch) C.V. Morton, *Gasteranthus ecuadorensis* (Fritsch) Wiehler.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Herb. Native. Coastal, Andean, and Amazonian. 0–2500 m.
Prov.: AZU, BOL, CAR, COT, IMB, MOR, NAP, PAS, PIC, SUC, TUN, ZAM.
Voucher: B. A. STEIN 2948 (MO!, NY!, US!).
- Gasteranthus perennis* (C.V. Morton) Wiehler**
Syn.: *Besleria perennis* C.V. Morton.
Herb. Endemic. Coastal. 500–1000 m.
Prov.: COT, RIO.
Voucher: MEXIA 6719 (HT: US!), HOLM-NIELSEN ET AL. 2899 (AAU!, MO!, US!).
- Gasteranthus quitensis* Benth.**
Syn.: *Gasteranthus pilosus* Benth., *Besleria quitensis* (Benth.) Hanst., *Besleria sodiroana* Fritsch.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Herb. Endemic. Coastal and Andean. 500–3000 m.
Prov.: CAR, COT, ESM, IMB, PIC.
Voucher: HARTWEG S.N. (HT: K!), CROAT 73736 (MO!, QCNE!).
- Gasteranthus timidus* (C.V. Morton) Wiehler**
Syn.: *Besleria timida* C.V. Morton.
Herb. Endemic. Coastal. 0–500 m.
Prov.: BOL, RIO, MAN, PIC.
Voucher: ANDRÉ K-1497 (HT: K!), A. H. GENTRY & LOOR 30778 (MO!, SEL!).
- Gasteranthus trifolius* M. Freiberg**
Ref.: Freiberg, M. (1996).
Shrub. Endemic. Andean. 1000–2000 m.
Prov.: IMB.
Voucher: M. FREIBERG 96006 (HT: QCA!; IT: QCNE, ULM!).
Note: Known only from the type.
- Gasteranthus wendlandianus* (Hanst.) Wiehler**
Syn.: *Besleria wendlandiana* Hanst., *Besleria rupestris* C.V. Morton, *Gasteranthus rupestris* (C.V. Morton) Wiehler.
Herb. Native. Andean and Amazonian. 0–2000 m.
Prov.: CAR, MOR, NAP, PAS, SUC, TUN, ZAM.
Voucher: C. CERÓN & M. CERÓN 3082 (MO!, US!).
- Gloxinia* L'Hér.**
3 species.
- Gloxinia dodsonii* Wiehler**
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a).
Herb. Native. Coastal and Andean. 0–1500 m.
Prov.: CAR, COT, ESM, RIO, PIC.
Voucher: DODSON & THIEN 1173 (HT: SEL; IT: BH!, KI!, UC!, US!, WIS!), DODSON ET AL. 5244 (RPSC, SEL!).
- Gloxinia perennis* (L.) Fritsch**
Syn.: *Martynia perennis* L., *Gloxinia maculata* L'Hér., *Eucoleum crassifolium* Salisb., *Gloxinia trichotoma* Moench, *Gloxinia heterophylla* Poepp., *Gloxinia pallidiflora* Hook., *Gloxinia suaveolens* Decne., *Escheria gloxiniaeflora* Regel, *Gloxinia trichantha* Miq., *Salisia gloxiniaeflora* Regel, *Salisia maculata* (L'Hér.) Regel, *Salisia pallidiflora* (Hook.) Regel, *Salisia suaveolens* (Decne.) Regel, *Gloxinia bicolor* Poepp. ex Hanst.
Ref.: Renner, S. S. et al. (1990).
Herb. Native. Coastal and Amazonian. 0–500 m.
Prov.: RIO, NAP, PAS.
Voucher: H. LUGO 148 (GB!, SEL!).
Note: Probably introduced on the Coast.
- Gloxinia sylvatica* (Kunth) Wiehler**
Syn.: *Gesneria sylvatica* Kunth, *Gesneria oxyphylla* DC., *Seemannia ternifolia* Regel, *Gesneria adenantha* Fisch. ex Hanst., *Gesneria quadrifolia* Warsz. ex Hanst., *Seemannia sylvatica* (Kunth) Hanst., *Seemannia benaryi* Regel, *Seemannia major* Baill., *Seemannia uniflora* Baill., *Achimenes albescens* Rusby, *Seemannia cuneata* Rusby, *Fritschiantha benaryi* (Regel) Kuntze, *Fritschiantha cuneata* (Rusby) Kuntze, *Fritschiantha major* (Baill.) Kuntze, *Fritschiantha sylvatica* (Kunth) Kuntze, *Fritschiantha sylvatica* var. *aurea* Kuntze, *Fritschiantha sylvatica* var. *coccinea* Kuntze, *Fritschiantha uniflora* (Baill.) Kuntze, *Seemannia regnelliana* Fritsch, *Seemannia albescens* (Rusby) Fritsch, *Seemannia latifolia* Fritsch.
Herb. Native. Andean. Elevation uncertain.
Prov.: MOR.
Voucher: ANDRÉ 4664 (K!).
- Heppiella* Regel**
3 species.
- Heppiella repens* Hanst.**
Ref.: Kvist, L. P. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).
Shrub, vine, or epiphyte. Native. Andean. 2000–3500 m.
Prov.: AZU, COT, IMB, PIC, TUN.
Voucher: JAMESON 646 (HT: LE!; IT: BM!(2), CGE, E!, G, K!, W), CAMP E-4300 (AAU!, MO!, NY!, SEL!, US!(3)).
- Heppiella ulmifolia* (Kunth) Hanst.**
Syn.: *Gesneria ulmifolia* Kunth, *Gesneria guazumifolia* Benth., *Gesneria guazumifolia* Benth., *Kohleria guazumifolia* (Benth.) Regel, *Heppiella ampla* Hanst., *Heppiella pauciflora* Hanst., *Heppiella stenocalyx* Hanst., *Heppiella warszewiczii* Hanst., *Reichsteineria guazumifolia* (Benth.) Kuntze, *Heppiella grandifolia* Fritsch, *Heppiella karsteniana* Fritsch, *Heppiella rosea* Fritsch, *Heppiella scandens* Fritsch, *Heppiella trianae* Fritsch, *Heppiella guazumifolia* (Benth.) Wiehler.

- Ref.: Kvist, L. P. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb, subshrub, or shrub. Native. Coastal and Andean. 500–4000 m.
Prov.: AZU, BOL, CAÑ, CAR, CHI, COT, ORO, IMB, NAP, PIC, TUN.
Voucher: BONPLAND 2274 (HT: P; IT: P(2); photo F(P)), HOLM-NIELSEN ET AL. 6335 (AAU!, F!, MO!, NY!, US!).
- Heppiella verticillata (Cav.) Cuatrec.**
Syn.: *Gesneria verticillata* Cav., *Isoloma verticillatum* (Cav.) Decne., *Heppiella parviflora* Fritsch.
Ref.: Kvist, L. P. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb or subshrub. Native. Andean. 1000–3000 m.
Prov.: CHI, NAP, SUC, TUN.
Voucher: NEE S.N. (HT: MA; IT: MA(3), MPU!(2)), BALSLEV & E. MADSEN 10547 (AAU!, COL, F, MO!, NY!, SEL!).
- Kohleria Regel**
6 species.
- Kohleria grandiflora L.P. Kvist & L.E. Skog**
Ref.: Kvist, L. P. & L. E. Skog (1992b).
Herb. Native. Andean. 1000–1500 m.
Prov.: IMB, NAP.
Voucher: W. PALACIOS 6891 (MO!, US!).
- Kohleria hirsuta (Kunth) Regel**
Syn.: *Gesneria hirsuta* Kunth, *Gesneria mollis* Kunth, *Gesneria longiflora* Kunth, *Gesneria oblongata* Paxton, *Gesneria vestita* Benth., *Gesneria eriantha* Benth., *Gesneria rubricaulis* Kunth & Bouché, *Isoloma erianthum* (Benth.) Decne., *Isoloma molle* Decne., *Isoloma vestitum* (Benth.) Decne., *Isoloma hirsutum* (Kunth) Regel, *Isoloma rubricaulis* (Kunth & Bouché) Regel, *Brachyloma hirsutum* (Kunth) Hanst., *Isoloma longiflorum* (Kunth) Regel, *Brachyloma leucomallon* Hanst., *Brachyloma moritzianum* Bouché & Hanst., *Brachyloma erianthum* (Benth.) Hanst., *Brachyloma longiflorum* (Kunth) Hanst., *Brachyloma molle* (Kunth) Hanst., *Brachyloma rhodomallon* Hanst., *Brachyloma rubricaulis* (Kunth & Bouché) Hanst., *Brachyloma ventricosum* Hanst., *Brachyloma vestitum* (Benth.) Hanst., *Gesneria ventricosa* Hanst., *Kohleria rubricaulis* (Kunth & Bouché) Hassk., *Isoloma longipedunculatum* Hanst., *Kohleria eriantha* (Benth.) Hanst., *Kohleria leucomallos* (Hanst.) Hanst., *Kohleria longiflora* (Kunth) Hanst., *Kohleria longipedunculata* Hanst., *Kohleria mollis* (Kunth) Hanst., *Kohleria moritziana* (Bouché & Hanst.) Hanst., *Kohleria rhodomallos* (Hanst.) Hanst., *Kohleria ventricosa* (Hanst.) Hanst., *Kohleria vestita* (Benth.) Hanst., *Isoloma molle* (Kunth) G. Nicholson hom. illeg., *Kohleria brachycalyx* Fritsch, *Kohleria lanigera* Fritsch, *Isoloma pycnosuzygium* Donn. Sm., *Kohleria strausiana* Fritsch, *Kohleria pycnosuzygia* (Donn. Sm.) V.M. Badillo.
Herb. Native. Andean and Amazonian. 500–2000 m.
Prov.: MOR, NAP, ZAM.
Voucher: W. PALACIOS 8181 (MO, US).
Infrasp.: *Kohleria hirsuta* var. *hirsuta*
- Kohleria inaequalis (Benth.) Wiehler**
Syn.: *Gesneria inaequalis* Benth., *Capanea warszewiczii* Warsz. ex Regel, *Tydaea warszewiczii* Regel, *Locheria magnifica* Planch. & Linden, *Tydaea ocellata* var. *formosa* Regel, *Achimenes magnifica* (Planch. & Linden) Lindl., *Tydaea magnifica* (Planch. & Linden) Hanst., *Isoloma inaequale* (Benth.) Benth. ex B.D. Jacks., *Isoloma bogotense* var. *warszewiczii* (Regel) Voss, *Kohleria ferruginea* Fritsch, *Kohleria lehmannii* Fritsch, *Kohleria magnifica* (Planch. & Linden) H.E. Moore.
Ref.: Kvist, L. P. & L. E. Skog (1992b).
Herb or subshrub. Native. Coastal and Andean. 0–2000 m.
Prov.: CAR, ESM, IMB, MAN.
Voucher: JÁTIVA & EPLING 844 (AAU!, BM, MO!, NY!, UC!(2), US!).
Infrasp.: *Kohleria inaequalis* var. *inaequalis*
- Kohleria spicata (Kunth) Oerst.**
Syn.: *Gesneria spicata* Kunth, *Gesneria spicata* var. *schiedeana* DC., *Gesneria longifolia* Lindl., *Gesneria petiolaris* Benth., *Gesneria schiedeana* (DC.) Hook., *Gesneria breviflora* Lindl., *Gesneria ignorata* Kunth & Bouché, *Gesneria linkiana* Kunth & Bouché, *Gesneria mollis* Kunth hom. illeg., *Isoloma longifolium* (Lindl.) Decne., *Isoloma petiolare* (Benth.) Decne., *Isoloma spicatum* (Kunth) Decne., *Gesneria seemannii* Hook., *Isoloma breviflorum* (Lindl.) Lindl., *Kohleria ignorata* (Kunth & Bouché) Regel, *Gesneria mollis* Lehm. hom. illeg., *Isoloma kramerianum* Lehm., *Kohleria linkiana* (Kunth & Bouché) Hanst., *Kohleria seemannii* (Hook.) Hanst., *Kohleria wagneri* Regel, *Brachyloma longifolium* (Lindl.) Oerst., *Brachyloma petiolare* (Benth.) Oerst., *Kohleria tetragona* Oerst., *Kohleria incana* Klotzsch & Hanst., *Kohleria krameriana* (Lehm.) Hanst., *Kohleria longifolia* (Lindl.) Hanst., *Kohleria schiedeana* (DC.) Hanst., *Kohleria tomentosa* Hanst., *Kohleria petiolaris* (Benth.) Hanst., *Kohleria rupestris* Seem., *Isoloma seemannii* (Hook.) Benth., *Isoloma ignoratum* (Kunth & Bouché) Hemsl., *Isoloma incanum* (Klotzsch & Hanst.) Hemsl., *Isoloma linkianum* (Kunth & Bouché) Hemsl., *Isoloma rupestre* (Seem.) Hemsl., *Isoloma schiedeana* (DC.) Hemsl., *Isoloma tetragonum* (Oerst.) Hemsl., *Kohleria spicata* var. *hispida* Fritsch, *Kohleria spicata* var. *wagneri* (Regel) Fritsch, *Kohleria chiapensis* Brandegee, *Kohleria longifolia* var. *petiolaris* (Benth.) C.V. Morton.
Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1992b); Jørgensen, P. M. & C. Ulloa U. (1994).
Herb, subshrub, or shrub. Native. Coastal, Andean, and Amazonian. 0–2500 m.
Prov.: AZU, BOL, CAÑ, CAR, CHI, COT, ORO, ESM, GUA, IMB, LOJ, MAN, MOR, NAP, PAS, PIC, SUC, TUN, ZAM.
Voucher: HOLM-NIELSEN ET AL. 7185 (AAU, F, NY!, MO!, S, US!).
- Kohleria tubiflora (Cav.) Hanst.**
Syn.: *Gesneria tubiflora* Cav., *Gesneria incurva* Benth., *Gesneria rhynchocarpa* Benth., *Isoloma rhynchocarpum* (Benth.) Decne., *Isoloma tubiflorum* (Cav.) Decne., *Gesneria picta* Hook., *Gesneria picta* var. *minus-hirsuta* Hook., *Isoloma pictum* var. *minus-hirsuta* (Hook.) Planch., *Isoloma pictum* (Hook.) Decne. ex Planch., *Isoloma hondense* var. *uniflorum* Regel, *Isoloma hondense* var. *hookeri* Regel, *Isoloma hondense* var. *wagneri* Regel, *Isoloma hondense* var. *warszewiczii* Regel, *Isoloma pictum* (Hook.) Regel hom. illeg., *Cryptoloma coloratum* Hanst., *Brachyloma incurvum* (Benth.) Oerst., *Brachyloma pictum* (Hook.) Oerst., *Brachyloma pilosum* Oerst., *Brachyloma rhynchocarpum* (Benth.) Oerst., *Brachyloma strictum* Oerst., *Brachyloma tubiflorum* (Cav.) Oerst., *Cryptoloma anonyum* Hanst., *Cryptoloma cordifolium* Hanst., *Cryptoloma hookerianum* (Regel) Hanst., *Cryptoloma pictum* (Hook.) Hanst., *Cryptoloma pilosum* (Oerst.) Hanst., *Cryptoloma rhynchocarpum* (Benth.) Hanst., *Cryptoloma strictum* (Oerst.) Hanst., *Kohleria anonymsa* (Hanst.) Hanst., *Kohleria cordifolia* (Hanst.) Hanst., *Kohleria hookeri* (Regel) Hanst., *Kohleria picta* (Hook.) Hanst., *Kohleria pilosa* (Oerst.) Hanst., *Kohleria stricta* (Oerst.) Hanst., *Kohleria colorata* (Hanst.) Hanst., *Isoloma cordifolium* (Hanst.) Hemsl., *Isoloma incurvum* (Benth.) Hemsl., *Isoloma pilosum* (Oerst.) Hemsl., *Isoloma strictum* (Oerst.) Hemsl.
Herb. Native. Coastal. Elevation uncertain.
Prov.: GUA.
Voucher: A. SINCLAIR S.N. (K(2)!).

Note: Only collected once in Ecuador.
Voucher may be from Colombia or Panama.

***Kohleria villosa* (Fritsch) Wiehler**
Syn.: *Nematanthus erianthus* Benth.,
Columnnea eriantha (Benth.) Hanst.,
Diastema villosum Fritsch, *Diastema*
anisophyllum var. *quitense* Fritsch,
Diastema anisophyllum Fritsch, *Diastema*
platylomatum Donn. Sm., *Kohleria*
platylomata (Donn. Sm.) Wiehler,
Kohleria anisophylla (Fritsch) Wiehler.
Ref.: Wiehler, H. (1978a); Kvist, L. P. &
L. E. Skog (1992b).
Herb. Native. Coastal and Andean. 500–
2500 m.
Prov.: BOL, CAR, COT, ESM, PIC.
Voucher: JAMESON S.N. (LT: W; IT: P!; photo:
F(W)), L. P. KVIST ET AL. 60308 (AAU!,
COL!, NY!, QCA!, QCNE!, US!).
Infrasp.: *Kohleria villosa* var. *anisophylla*
(Fritsch) L.P. Kvist & L.E. Skog,
Kohleria villosa var. *villosa*

Monopyle Moritz ex Benth.

9 species; 5 endemic species.

***Monopyle ecuadorensis* C.V. Morton**
Herb. Endemic. Andean. 1000–1500 m.
Prov.: COT.
Voucher: MEXIA 6693 (HT: US!; IT: US!(2)).
Note: Known only from the type.

***Monopyle flava* L.E. Skog**
Herb. Native. Amazonian. 500–1000 m.
Prov.: MOR.
Voucher: VAN DER WERFF & W. PALACIOS
10326 (MO, US!).

***Monopyle iserniana* Cuatrec.**
Herb. Endemic. Andean. Elevation uncertain.
Prov.: NAP.
Voucher: ISERN Y BATLLÓ 498 (HT: MA;
photo: F, US).
Note: Known only from the type.

***Monopyle macrocarpa* Benth.**
Syn.: *Monopyle macrophylla* Benth.,
Scoliotheca trianae Baill., *Monopyle*
pilosula C.V. Morton.
Ref.: Renner, S. S. et al. (1990).
Shrub. Native. Andean and Amazonian.
0–2000 m.
Prov.: AZU, CAÑ, CAR, COT, ORO,
ESM, GUA, RIO, MAN, MOR, NAP,
PAS, PIC, SUC, TUN.
Voucher: J. L. CLARK ET AL. 2517 (MO!,
QCNE!, SRP!, US!).
Infrasp.: *Monopyle macrocarpa* var.
isophylla Benth.

***Monopyle mexiae* C.V. Morton**
Herb. Native. Amazonian. 500–1000 m.
Prov.: NAP, PAS.
Voucher: MEXIA 7077 (HT: US!; IT: UC!,

US!), SKUTCH 4455 (K!).

***Monopyle paniculata* Benth.**
Herb. Endemic. Amazonian. Elevation
uncertain.
Prov.: PAS.
Voucher: SPRUCE 5071 (HT: K!; IT: BM!,
NY, W(2)), R. W. PEARCE 417 (K!).

***Monopyle sodiroana* Fritsch**
Ref.: Wiehler, H. (1977); Dodson, C. H.
& A. H. Gentry (1978a).
Herb. Endemic. Coastal. 0–1000 m.
Prov.: ESM, RIO, PAS, PIC.
Voucher: SODIRO 119/1 (T: B destr., W),
HOLM-NIELSEN ET AL. 25419 (AAU!, K,
US!).

***Monopyle stenoloba* C.V. Morton**
Herb. Endemic. Amazonian. 0–500 m.
Prov.: NAP, PAS.
Voucher: MEXIA 6897 (HT: US!),
PRESCOTT 433 (NY!).

***Monopyle subdimidiata* (Klotzsch &
Hanst.) Mansf.**
Syn.: *Koellikeria subdimidiata* Klotzsch
& Hanst., *Monopyle leucantha* Moritz ex
Benth.
Herb. Native. Amazonian. 0–500 m.
Prov.: NAP, PAS.
Voucher: PRESCOTT 412 (CAS!).

***Napeanthus* Gardner**
5 species; 1 endemic species.

***Napeanthus andinus* Rusby**
Herb. Native. Coastal. 0–1000 m.
Prov.: ESM.
Voucher: PITMAN ET AL. 698 (MO!, QCNE,
US!).

***Napeanthus apodemus* Donn. Sm.**
Syn.: *Napeanthus bullatus* Wiehler.
Herb. Native. Amazonian. 0–500 m.
Prov.: NAP.
Voucher: C. CERÓN & D. A. NEILL 2336
(MO!, US!).

***Napeanthus ecuadorensis* Fritsch**
Herb. Endemic. Amazonian. 500–1000 m.
Prov.: PIC.
Voucher: SODIRO 119/57 (HT: B destr.).
Note: Known only from the type.

***Napeanthus riparius* P.B. Phillipson**
Herb. Native. Amazonian. 500–1000 m.
Prov.: PAS.
Voucher: HARLING & L. ANDERSSON 16849
(US!).

***Napeanthus robustus* Fritsch**
Herb. Native. Coastal. 0–1000 m.
Prov.: AZU, ORO, ESM, RIO, MAN, PIC.
Voucher: SODIRO 119/58 (HT: B destr.), J.
L. CLARK ET AL. 2505 (MO!, QCNE!,

SRP!, US!).

Nautilocalyx Linden ex Hanst.
5 species; 3 endemic species.

***Nautilocalyx ecuadoranus* Wiehler**
Ref.: Wiehler, H. (1978b); Renner, S. S. et
al. (1990).
Herb. Endemic. Amazonian. 0–500 m.
Prov.: MOR, NAP, PAS, SUC, TUN.
Voucher: WIEHLER 7150 (HT: SEL; IT: NY,
QCA, S, US), DODSON ET AL. 960 (US!).

***Nautilocalyx glandulifer* Wiehler**
Ref.: Renner, S. S. et al. (1990).
Herb. Endemic. Amazonian. 0–500 m.
Prov.: NAP.
Voucher: WIEHLER 77130 (HT: SEL; IT: BH,
GH, K, MO, NY, QCA, S, SEL, U, US),
BRANDBYGE & E. ASANZA 30167 (AAU!).
Note: Type not seen; duplicates not
distributed.

***Nautilocalyx lucianii* (Linden & E.
Fourn.) Wiehler**
Syn.: *Episcia lucianii* Linden & E. Fourn.
Herb. Native. Amazonian. 0–500 m.
Prov.: NAP, SUC.
Voucher: SMITH ET AL. 3397 (US!).

***Nautilocalyx lynchii* (Hook. f.) Sprague**
Syn.: *Alloplectus lynchii* Hook. f.
Ref.: Wiehler, H. (1978b).
Herb. Status unknown. Provenance
uncertain. Elevation uncertain.
Prov.: No province recorded.
Note: Known only from the type. Origin
of the type and collector unknown;
probably from Peru or Ecuador.

***Nautilocalyx vinosus* Wiehler**
Ref.: Wiehler, H. (1978b); Renner, S. S. et
al. (1990).
Herb. Endemic. Amazonian. 0–500 m.
Prov.: MOR, NAP, PAS, ZAM.
Voucher: WIEHLER 7154 (HT: SEL), E. W.
DAVIS & J. YOST 922 (QCA, SEL).
Note: Material not seen.

***Neomortonia* Wiehler**
2 species.

***Neomortonia nummularia* (Hanst.)
Wiehler**
Syn.: *Hypocyrtia nummularia* Hanst.,
Columnnea nummularia (Hanst.) Kuntze,
Episcia truncicola Brandegee, *Alloplectus*
nummularia (Hanst.) Wiehler.
Ref.: Jørgensen, P. M. & C. Ulloa U. (1994).
Herb or shrub. Native. Andean. 2000–
3500 m.
Prov.: COT, ORO, LOJ, NAP, PIC.
Voucher: MOLAU & B. ERIKSEN 3150
(AAU!, GB!, QCA!).

***Neomortonia rosea* Wiehler**

Epiphytic herb. Native. Coastal and Andean. 0–1500 m.

Prov.: CAR, ESM.

Voucher: VAN DER WERFF ET AL. 12123 (MO!).

***Paradrymonia* Hanst.**

10 species; 5 endemic species.

***Paradrymonia aurea* Wiehler**

Ref.: Wiehler, H. (1978b).

Epiphytic herb. Endemic. Amazonian. 500–1000 m.

Prov.: MOR, NAP, PAS.

Voucher: WIEHLER 75269 (HT: SEL; IT: AAU, K, NY, QCA, S, US), WIEHLER 78131 (BH, S, SEL, US).

Note: Material not seen; duplicates not distributed.

***Paradrymonia binata* Wiehler**

Ref.: Wiehler, H. (1995).

Epiphytic herb. Endemic. Coastal. 500–1000 m.

Prov.: ESM, PIC.

Voucher: WIEHLER 9205 (HT: GES; IT: NY, QCA, US), T. MENDOZA ET AL. 545 (QCA!, QCNE!, US!).

Note: Type not seen; duplicates not distributed.

***Paradrymonia ciliosa* (Mart.) Wiehler**

Syn.: *Hypocyrtia ciliosa* Mart., *Centrosolenia glabra* Benth., *Paradrymonia glabra* (Benth.) Hanst., *Episcia ciliosa* (Mart.) Hanst., *Episcia glabra* (Benth.) Hanst., *Columnnea ciliosa* (Mart.) Kuntze.

Ref.: Renner, S. S. et al. (1990).

Vine. Native. Amazonian. 0–500 m.

Prov.: MOR, NAP, PAS.

Voucher: BRANDBYGE & E. ASANZA 32712 (AAU, US!).

***Paradrymonia decurrens* (C.V. Morton)**

Wiehler

Syn.: *Centrosolenia decurrens* C.V. Morton.

Vine. Native. Amazonian. 0–500 m.

Prov.: SUC.

Voucher: SMITH ET AL. 3391 (US!).

***Paradrymonia fuquaiana* Wiehler**

Ref.: Wiehler, H. (1995).

Herb. Endemic. Andean. 1000–1500 m.

Prov.: NAP.

Voucher: WIEHLER 9204 (HT: GES; IT: NY, QCA, US), WIEHLER ET AL. 95116 (GES).

Note: Material not seen; duplicates not distributed.

***Paradrymonia hypocyrtia* Wiehler**

Ref.: Wiehler, H. (1977); Dodson, C. H. & A. H. Gentry (1978a); Wiehler, H. (1978b).

Epiphyte. Endemic. Coastal. 0–1000 m.

Prov.: ESM, RIO, PIC.

Voucher: DODSON 6092 (HT: SEL; IT: K,

NY, QCA, S, US), J. L. CLARK & B.

ADNEPOS 197 (MO!, QCNE!).

Note: Type not seen; duplicates not distributed.

***Paradrymonia lacera* Wiehler**

Ref.: Wiehler, H. (1984).

Epiphytic herb. Endemic. Coastal. 500–1000 m.

Prov.: COT.

Voucher: DODSON & A.H. GENTRY 10194 (HT: SEL).

Note: Known only from the type.

***Paradrymonia longifolia* (Poepp.)**

Wiehler

Syn.: *Drymonia longifolia* Poepp., *Besleria longifolia* Poepp. ex Hanst., *Episcia longifolia* (Poepp.) Hanst.

Ref.: Renner, S. S. et al. (1990).

Shrub or vine. Native. Amazonian. 0–500 m.

Prov.: MOR, NAP, PAS, SUC.

Voucher: J. L. CLARK ET AL. 1044 (MO!, QCNE!).

Paradrymonia metamorphophylla

(Donn. Sm.) Wiehler

Syn.: *Alloplectus metamorphophyllus* Donn. Sm.

Ref.: Wiehler, H. (1978b); Renner, S. S. et al. (1990); Jørgensen, P. M. & C. Ulloa U. (1994).

Herb or shrub. Native. Andean and Amazonian. 0–2500 m.

Prov.: CAR, ESM, MOR, NAP, ZAM.

Voucher: W. S. HOOVER 1211 (MO!).

***Paradrymonia prististoma* Wiehler**

Ref.: Wiehler, H. (1995).

Epiphytic herb. Native. Andean and Amazonian. 500–1500 m.

Prov.: NAP.

Voucher: WIEHLER ET AL. 86184 (HT: GES; IT: QCA), WIEHLER ET AL. 86200 (GES).

Note: Material not seen; duplicates not distributed.

***Pearcea* Regel**

12 species; 8 endemic species.

***Pearcea abunda* (Wiehler) L.P. Kvist & L.E. Skog**

Syn.: *Parakohleria abunda* Wiehler.

Ref.: Wiehler, H. (1978c); Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1996).

Herb. Native. Andean and Amazonian. 0–1500 m.

Prov.: MOR, NAP, PAS.

Voucher: WIEHLER 77129 (HT: SEL; IT:

K!, NY, QCA, S, US!), L. P. KVIST 60452 (AAU!, QCA!, QCNE!, US!).

***Pearcea bilabiata* L.P. Kvist & L.E. Skog**

Ref.: Kvist, L. P. & L. E. Skog (1996).

Herb. Endemic. Andean and Amazonian.

500–1500 m.

Prov.: MOR.

Voucher: SCOLNIK 1490 (HT: US!), HIRTZ ET AL. 7130 (MO!).

***Pearcea cordata* L.P. Kvist & L.E. Skog**

Ref.: Kvist, L. P. & L. E. Skog (1996).

Herb. Endemic. Andean. 1500–2000 m.

Prov.: NAP.

Voucher: HOLM-NIELSEN ET AL. 26512 (HT: AAU!).

Note: Known only from the type.

***Pearcea glabrata* L.P. Kvist & L.E. Skog**

Ref.: Kvist, L. P. & L. E. Skog (1996).

Herb. Endemic. Andean. 1000–1500 m.

Prov.: MOR, PAS, TUN.

Voucher: H. LUGO 5923 (HT: US!; IT: GB!), H. LUGO 1894 (GB!, SEL!).

***Pearcea gracilis* L.P. Kvist & L.E. Skog**

Ref.: Kvist, L. P. & L. E. Skog (1996).

Herb. Endemic. Andean. 1500–2000 m.

Prov.: MOR.

Voucher: A. H. GENTRY ET AL. 30865 (HT: QCA!; IT: K!, MO!, NY!, SEL!), HARLING & L. ANDERSSON 12685 (GB!, SEL!).

***Pearcea hispidissima* (Wiehler) L.P. Kvist & L.E. Skog**

Syn.: *Parakohleria hispidissima* Wiehler.

Ref.: Wiehler, H. (1978c); Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1996).

Herb. Native. Andean and Amazonian.

500–1500 m.

Prov.: MOR, NAP, PAS, TUN.

Voucher: WIEHLER 7176 (HT: SEL; IT: K, NY, SEL!, US!), BRANDBYGE & E. ASANZA 31943 (AAU!).

***Pearcea hypocyrtiflora* (Hook. f.) Regel**

Syn.: *Gloxinia hypocyrtiflora* Hook. f., *Hypocyrtia brevicalyx* Veitch, *Isoloma hypocyrtiflorum* (Hook. f.) Benth.

Ref.: Renner, S. S. et al. (1990); Kvist, L. P. & L. E. Skog (1996).

Herb. Endemic. Amazonian. 0–1000 m.

Prov.: NAP, PAS, TUN.

Voucher: JAMESON 786 (LT: K!; ILT: BM, E!, FI, MPU!), J. JARAMILLO & F. COELLO 3566 (AAU!, QCA).

***Pearcea intermedia* L.P. Kvist & L.E. Skog**

Ref.: Kvist, L. P. & L. E. Skog (1996).

Herb. Endemic. Andean. 1500–2000 m.

Prov.: NAP.

Voucher: LØJTNANT & MOLAU 11494 (HT: AAU!; IT: GB!), HARLING & L.

ANDERSSON 16357 (GB!, US!).

***Pearcea reticulata* (Fritsch) L.P. Kvist & L.E. Skog**

Syn.: *Kohleria reticulata* Fritsch.
 Ref.: Kvist, L. P. & L. E. Skog (1996).
 Herb. Native. Andean and Amazonian.
 500–2000 m.

Prov.: MOR, NAP, PAS, SUC, TUN.
 Voucher: SPRUCE 5841 (HT: W; IT: BM,
 CGE, E, G, KI, NY, P, WAG), L. P.
 KVIST 60315 (AAU!, COL, GB!, MO!,
 NY!, QCA!, QCNE!, US!).

***Pearcea rhodotricha* (Cuatrec.) L.P. Kvist & L.E. Skog**

Syn.: *Diastema rhodotrichum* Cuatrec.,
Parakohleria rhodotricha (Cuatrec.)
 Wiehler.

Ref.: Wiehler, H. (1978c); Renner, S. S. et al.
 (1990); Kvist, L. P. & L. E. Skog (1996).
 Shrub. Endemic. Amazonian. 0–1000 m.
 Prov.: NAP, PAS, ZAM.
 Voucher: ISERN Y BATTLÓ 496 (LT: MA; ILT:
 F), E.L. BESSE ET AL. 68 (QCA!, SEL!).

***Pearcea schimpffii* Mansf.**

Syn.: *Parakohleria schimpffii* (Mansf.)
 Wiehler.

Ref.: Mansfeld, R. (1937); Wiehler, H.
 (1978c); Kvist, L. P. & L. E. Skog (1996).
 Herb. Endemic. Andean. 1000–1500 m.
 Prov.: MOR, NAP, PAS, TUN.
 Voucher: SCHIMPF 704 (LT: GH!; ILT: G(2)!,
 M!, MO!, TRT!), L. P. KVIST 60319 (AAU!,
 MECN!, NY!, QCA!, QCNE!, US!).

***Pearcea sprucei* (Britton) L.P. Kvist & L.E. Skog**

Syn.: *Isoloma sprucei* Britton, *Kohleria
 sprucei* (Britton) Fritsch, *Kohleria
 jamesoniana* Fritsch, *Kohleria avilana*
 Cuatrec., *Kohleria baezana* Cuatrec.,
Kohleria sancti-josephii Cuatrec.,
Parakohleria avilana (Cuatrec.) Wiehler,
Parakohleria baezana (Cuatrec.)
 Wiehler, *Parakohleria jamesoniana*
 (Fritsch) Wiehler, *Parakohleria sancti-
 josephi* (Cuatrec.) Wiehler, *Parakohleria
 sprucei* (Britton) Wiehler.

Ref.: Wiehler, H. (1978c); Renner, S. S. et
 al. (1990); Jørgensen, P. M. & C. Ulloa U.
 (1994); Kvist, L. P. & L. E. Skog (1996).
 Herb. Native. Andean and Amazonian. 0–
 3000 m.

Prov.: AZU, CAÑ, CHI, ORO, LOJ,
 MOR, NAP, PAS, TUN, ZAM.
 Voucher: L. P. KVIST 60440 (AAU!, COL!,
 GB!, MO!, NY!, QCA!, QCNE!, US!).
 Infrasp.: *Pearcea sprucei* var. *sprucei*

***Phinaea* Benth.**

2 species; 1 endemic species.

***Phinaea divaricata* (Poepp.) Wiehler**

Syn.: *Trevirana divaricata* Poepp., *Diastema
 divaricatum* (Poepp.) Benth. ex Walp.
 Herb. Native. Coastal. 0–500 m.
 Prov.: MAN.
 Voucher: HARLING ET AL. 24791 (GB!).

***Phinaea ecuadorana* Wiehler**

Ref.: Wiehler, H. (1995).
 Herb. Endemic. Coastal. 500–1000 m.
 Prov.: ORO.
 Voucher: WIEHLER ET AL. 8652 (HT:
 QCNE; IT: B, E, GES, K, MO, NY,
 QCA, SEL, US).

Note: Known only from the type. Material
 not seen; duplicates not distributed, but
 probably equal to *P. divaricata*.

***Reldia* Wiehler**

3 species; 2 endemic species.

***Reldia calcarata* L.P. Kvist & L.E. Skog**

Ref.: Kvist, L. P. & L. E. Skog (1989).
 Herb. Endemic. Andean. 2000–2500 m.
 Prov.: MOR.
 Voucher: STEYERMARK 54284 (HT: US!;
 IT: F!).

Note: Known only from the type.

***Reldia minutiflora* (L.E. Skog) L.P. Kvist & L.E. Skog**

Syn.: *Nautilocalyx minutiflorus* L.E. Skog,
Reldia veraguensis Wiehler, *Cremosperma
 minutiflorum* (L.E. Skog) Wiehler.
 Ref.: Kvist, L. P. & L. E. Skog (1989).
 Herb. Native. Andean and Amazonian. 0–
 1500 m.

Prov.: MOR, NAP, PAS.
 Voucher: L. P. KVIST 60313 (AAU, NY,
 QCA, QCNE, US).

Infrasp.: *Reldia minutiflora* var. *minutiflora*,
Reldia minutiflora var. *veraguensis*
 (Wiehler) L.P. Kvist & L.E. Skog

***Reldia multiflora* L.P. Kvist & L.E. Skog**

Ref.: Kvist, L. P. & L. E. Skog (1989);
 Renner, S. S. et al. (1990).
 Herb. Endemic. Amazonian. 0–500 m.
 Prov.: NAP.

Voucher: LAWESSON 39509 (HT: AAU!),
 C. CERÓN 600 (MO!).

***Rhynchoglossum* Blume**

1 species.

***Rhynchoglossum azureum* (Schltdl.) B.L. Burt**

Syn.: *Klugia azurea* Schltdl., *Glossanthus
 mexicanus* R. Br., *Klugia azurea* var.
costaricensis Fritsch, *Klugia grandiflora*
 Fritsch, *Klugia violacea* Fritsch,
Rhynchoglossum grandiflorum (Fritsch)
 B.L. Burt, *Rhynchoglossum violaceum*

(Fritsch) B.L. Burt.

Herb. Native. Andean. 1500–2000 m.
 Prov.: NAP.
 Voucher: BALSLEV & E. MADSEN 10571
 (AAU!, MO!, US!).

***Sinningia* Nees**

2 species.

***Sinningia sceptrum* (Mart.) Wiehler**

Syn.: *Gesneria sceptrum* Mart., *Gesneria
 sceptrum* var. *flavida* Mart., *Corytholoma
 fragile* Decne., *Corytholoma sceptrum*
 (Mart.) Decne., *Gesneria palustris* Regel,
Reichsteineria sceptrum (Mart.) Kuntze.
 Herb. Native. Andean. 1500–2000 m.
 Prov.: LOJ.
 Voucher: MADSEN 36747 (AAU!).

***Sinningia warmingii* (Hiern) Chautems**

Syn.: *Gesneria rutila* var. *atrosanguinea*
 Lindl., *Gesneria lindleyi* Hook.,
Corytholoma lindleyi (Hook.) Decne.,
Gesneria warmingii Hiern, *Reichsteineria
 atrosanguinea* (Lindl.) Kuntze,
Corytholoma sceptrum var. *arenosa*
 Chodat & Hassl., *Reichsteineria lindleyi*
 (Hook.) Fritsch, *Reichsteineria multiflora*
 Fritsch, *Reichsteineria microphylla* Fritsch,
Reichsteineria peruviana Fritsch,
Corytholoma multiflorum (Fritsch) Hassl.,
Reichsteineria lindleyi var. *macrophylla*
 Hoehne, *Corytholoma warmingii* (Hiern)
 Toursark.

Herb. Native. Provenance uncertain.
 Elevation uncertain.

Prov.: LOJ.
 Voucher: HARLING ET AL. 22594 (GB!, US!).

GOODENIACEAE

Compiled by P. M. Jørgensen (MO);
 reviewed by T. G. Lammers (F).
 1 genus, 1 species.

***Scaevola* L.**

1 species.

***Scaevola plumieri* (L.) Vahl**

Syn.: *Lobelia plumieri* L.
 Ref.: Fl. Ec. 14: 178 (1981); Wiggins, I.
 L. & D. M. Porter (1971); Lawesson, J.
 E. et al. (1987).
 Shrub. Native. Galapagos and Coastal. 0–
 500 m.

Prov.: GAL, GUA.
 Voucher: ASPLUND 5096 (G, K, S, US).

GROSSULARIACEAE

Compiled by A. Freire F. (MO, QCA);
 reviewed by P. M. Jørgensen (MO).