

ICONES PLEUROTHALLIDINARUM
XXXI

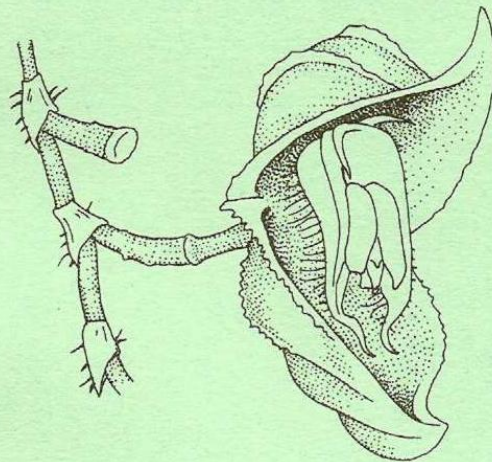
LEPANTHES OF BOLIVIA

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SYSTEMATICS OF OCTOMERIA SPECIES NORTH AND WEST OF BRAZIL

ADDENDA: New Species of *Brachionidium*, *Lepanthes*, *Masdevallia*, *Octomeria*,
Platystele, *Pleurothallopsis*, and *Porroglossum*. CORRIGENDA.

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ADDENDA

MISCELLANEOUS NEW SPECIES, NEW NAME, AND NEW COMBINATIONS

New species:

Brachionidium carmeniae Luer	Platystele cornejoi Luer
Brachionidium inkaterrense Luer & C.Soto	Platystele speckmaieri Luer & Sijm
Lepanthes clementinensis Luer & Cornejo	Pleurothalloopsis rinkei Luer
Lepanthes cornejoi Luer	Porroglossum gerritsenianum Luer & R.Parsons
Lepanthes ephalmatrix Luer & Hollowell	Porroglossum oversteegenianum Luer & Sijm
Lepanthes sorayae Luer & Cornejo	
Lepanthes stewartiorum Thoerle & Luer	New name:
Masdevallia gentianoides Luer & J.Leathers	Stelis ephalmatrix Luer & Hollowell
Masdevallia gerhardii Luer & Sijm	
Masdevallia lophina Luer & Sijm	New combinations:
Masdevallia oversteegeniana Luer & Sijm	Luzama chaucana (Luer & Hirtz) Luer
Masdevallia singeri Luer & Sijm	Niphantha gelida (Lindl.) Luer
Octomeria corrigiosa Luer & Toscano	Niphantha pidax (Luer) Luer
Octomeria fusiformis Luer & Toscano	Pleurothalloopsis niesseniae (Luer) Luer
Octomeria tweediei Luer & Toscano	

Brachionidium carmeniae Luer, sp. nov.

Ety.: Named for Carmen Soto, Coordinadora de Programas Ecológicos en Inkaterra, Machu Picchu.

Species haec *Brachionidio tuberculato* Lindl. affinis, sed foliis carinatis laceratis ad apicem cum apiculo decurvo differt.

Plant small to medium in size, terrestrial, suberect, up to 10 cm or more tall, the rhizome stout, 2-3 mm thick, 5-10 mm long between ramicauls, enclosed by 3 tubular, mucronate, scurfy sheaths; roots coarse, from near the base. Ramicauls slender, erect, 3-4 mm long, enclosed by 1-2 similar, tubular, scurfy sheaths. **Leaf** more or less spreading, coriaceous, elliptical, obtuse with a decurved apiculum, the blade 10-13 mm long, contracted below into a petiole ca. 1 mm long, 7-9 mm wide, 5-veined, the veins crested and lacerate. **Inflorescence** a solitary, non-resupinate flower borne by a slender, erect peduncle ca. 15 mm long, with a bract near the middle, from the apex of the ramicaul; floral bract inflated, acute, 4 mm long, enclosing the pedicel and ovary; pedicel 1 mm long, with a filament ca. 3 mm long; ovary 2 mm long; **sepals** translucent, glabrous, strongly marked with red-purple along the veins, the middle sepal ovate, acute, acuminate, 11 mm long, 4.5 mm wide, 3-veined, the lateral sepals completely connate into an ovate, acute, acuminate synsepal, 13 mm long, 7 mm wide, 4-veined; **petals** translucent, strongly marked with red-purple as the sepals, glabrous, ovate, oblique, acute, acuminate, 11 mm long, 3 mm wide, 3-veined; **lip** purple, transversely triangular, obtuse, 1.5 mm long, 3 mm wide, the lateral angles acute, incurved, the margins thickened, the disc with a rounded, microscopically pubescent callus; **column** stout, 1 mm long; pollinia 8.

PERU: **Cusco**: Machu Picchu, Quebrada Alccamayo, terrestrial in loose sphagnum moss, alt. 3,000-3,200 m, collected by E. Quispe, R. Ojeda, J. Gutierrez & B. Arenas, flowered in cultivation by Inkaterra, Oct. 2009, *Carmen Soto 5* (Holotype of *B. carmeniae*: USM), C. Luer illustr. 21496.

Brachionidium carmeniae is apparently endemic in the region around Machu Picchu, where it grows terrestrially in loose sphagnum moss at a high altitude. *Brachionidium carmeniae* is distinguished by scurfy, cauline sheaths; small, more or less spreading, elliptical leaves with the veins and margins markedly lacerate; translucent ovate, acute and acuminate sepals and petals boldly marked with red-purple along the veins and margins; and a transverse, obtuse lip with thick margins and a solitary, round callus.

Brachionidium inkaterrense Luer & C. Soto, sp. nov.

Ety.: Named for the Inkaterrea Garden where this species is cultivated.

Species haec *Brachionidio eleganti* Luer & Hirtz affinis, sed foliis minute sparsim asperatis, petalis dense ciliatis et labelli lobis oblique uncinatis differt.

Plant small to medium in size, terrestrial, suberect, up to 10 cm or more tall, the rhizome stout, 2-3 mm thick, 5-10 mm long between ramicauls, enclosed by 3 tubular, mucronate, scurfy sheaths; roots coarse, from near the base. Ramicauls slender, erect, ca. 10 mm long, enclosed by 2 similar, tubular, scurfy sheaths. **Leaf** more or less spreading, coriaceous, elliptical-oblong, the apex obtuse with a decurved apiculum, the blade 18-20 mm long, contracted below into a petiole ca. 1 mm long, 11-13 mm wide, 7-veined, the veins minutely spiculate. **Inflorescence** a solitary, non-resupinate flower borne by a slender, erect peduncle 10-15 mm long, with a bract near the middle, from the apex of the ramicaul; floral bract inflated, acute, 3-5 mm long, enclosing the pedicel and ovary; pedicel 1 mm long, with a filament 3-4 mm long; ovary 2 mm long; **sepals** translucent, glabrous, strongly marked with red-purple along the veins, the middle sepal ovate, acute, acuminate, 12 mm long, 5.5 mm wide, 3-veined, the lateral sepals completely connate into an ovate, acute, acuminate synsepal, 14 mm long, 8 mm wide, 4-veined; **petals** translucent, strongly marked with red-purple as the sepals, densely short-ciliate, narrowly ovate, oblique, acute, acuminate, 12 mm long, 4 mm wide, 3-veined; **lip** purple, transversely subtriangular, obtuse, 2 mm long, 2.5 mm wide, the lateral angles oblique, uncinata, acute, incurved, the margins smooth, the disc with an elevated, rounded, microscopically pubescent callus; **column** stout, 1 mm long; **pollinia** 8.

PERU: **Cusco:** Machu Picchu, Quebrada Alccamayo, terrestrial in loose, sphagnum moss, alt. 3,000-3,200 m, collected by E. Quispe, R. Ojeda & J. Gutierrez, flowered in cultivation by Inkaterrea, Oct. 2009, *Carmen Soto 6* (Holotype of *B. inkaterrense*: USM), C. Luer illustr. 21497.

Brachionidium inkaterrense, apparently endemic in the region of Machu Picchu, grows terrestrially in loose, sphagnum moss at a high altitude. It is distinguished by scurfy, cauline sheaths; elliptical-oblong, obtuse, spreading leaves that are sparsely and minutely spiculate, especially along the veins; ovate, acuminate sepals and petals, with the petals densely short-ciliate; and with a central, elevated, round callus of the lip, with lateral angles that are oblique with acute, shortly acuminate tips.

Lepanthes clementinensis Luer & Cornejo, sp. nov.

Ety.: Named for Hacienda Clementina in the western lowlands where the species was collected.

Planta parva, inflorescentia racemo congesto folio ovato brevior, sepalis ovatis breviter acuminatis, petalis transverse bilobis lobis ad apicem rotundis lobo superiore oblongo lobo inferiore minore triangulare, labelli lamina elliptica connectivis cuneatis appendice crassa transverse bipartita et columna proportione grande clavellata distinguitur.

Plant small, epiphytic, roots and rhizome unknown. Ramicauls slender, erect, 6.5 cm long, enclosed by 10 ciliate, lepanthiform sheaths. **Leaf** erect, coriaceous, ovate, subacute, 3.5 cm long, 2 cm wide, the round base abruptly contracted into a petiole 2 mm long. **Inflorescence** 2-3 congested, successively flowered racemes up to 7 mm long, borne by a slender peduncle 10-15 mm long behind the leaf; floral bracts 1.5 mm long, long-ciliate along the midvein; pedicels 1.5-2 mm long; ovary 0.75 mm long; **sepals** color unknown, the sepals broadly ovate, obtuse, shortly acuminate, 2 mm long, 1.5 mm wide, 3-veined, connate to the lateral sepals for 0.25 mm, the lateral sepals oblique, diverging, connate 0.5 mm; **petals** transversely bilobed, minutely pubescent, 0.75 mm long, 2.25 mm wide, the upper lobe oblong with rounded apex, 1.25 mm long, 0.75 mm wide, the lower lobe smaller, triangular with rounded apex, 0.5 mm long; **lip** bilaminar, glabrous, the lobes elliptical, with narrowly obtuse ends, 1 mm long, the connectives cuneate, the body narrow, filled with a thick, transversely cleft, microscopically pubescent appendix, the body connate to the base of the column; **column** proportionately large, clavate, 1.5 mm long, the anther apical, the stigma ventral.

ECUADOR: **Los Ríos:** Hacienda Clementina, humid forest, alt. 600 m, 25 May 2002, *B. Stahl & H. Cornejo 5917* (Holotype of *L. clementinensis*: MO; Isotype: GUAY), C. Luer illustr. 21515.

This species, from lowland northwestern Ecuador, is described with one, poorly preserved flower, so details of the lip may not be accurate. The plant is

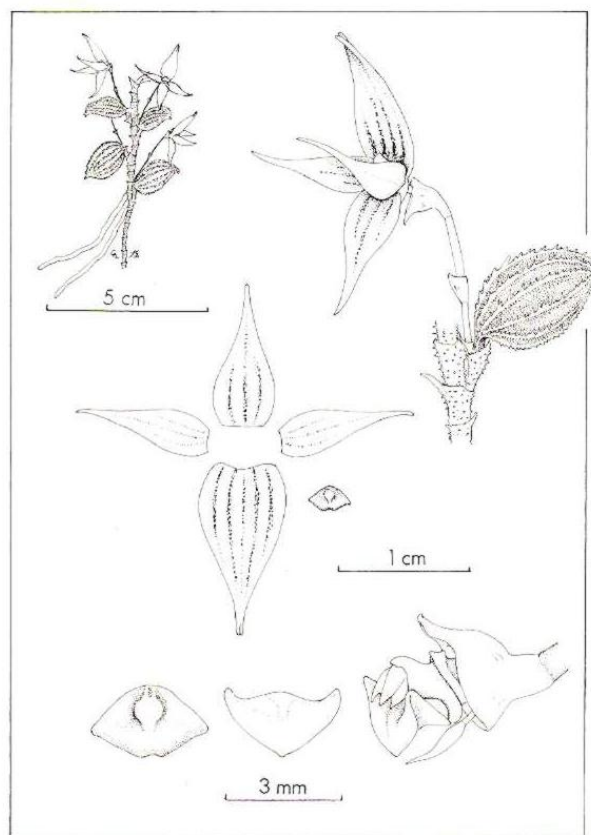


Fig. 1. *Brachionidium carmeniae*

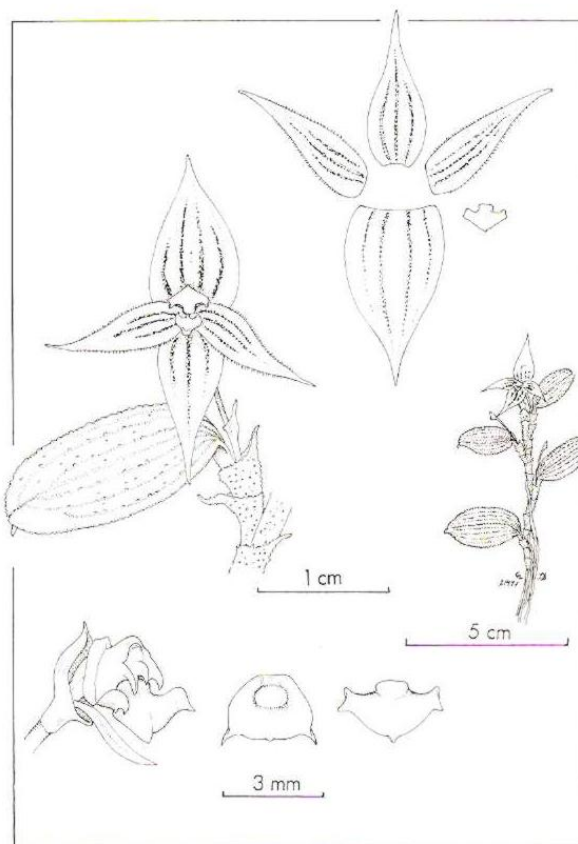


Fig. 2. *Brachionidium inkaterense*

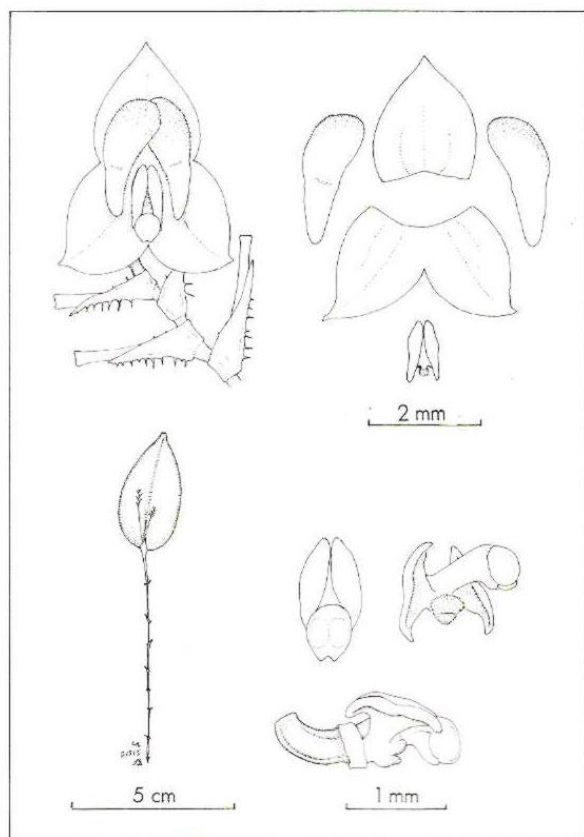


Fig. 3. *Lepanthes clementinensis*

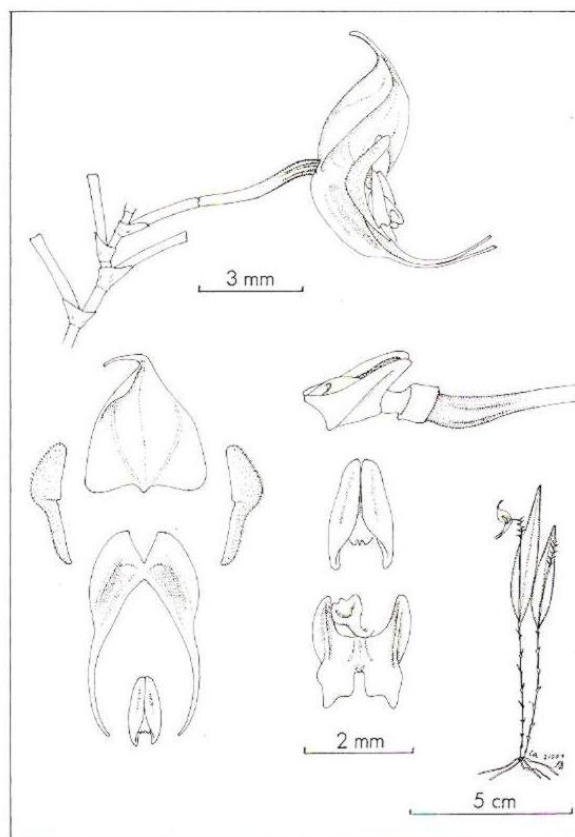


Fig. 4. *Lepanthes cornejoi*