

Stenospermatium Schott

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This treatment is composed of the following taxa: *Stenospermatium*, *Stenospermatium amomifolium*, *Stenospermatium multiovulatum*, *Stenospermatium spruceanum*, *Stenospermatium ulei*.

HOW TO CITE

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Has as synonym

Stenospermatium Schott

DESCRIPTION

Trichosclereids abundant. Epiphytic, climbing hemiepiphytic or terrestrial evergreen herbs, stem rather densely leaved, erect, often elongated. Leaves many. Petiole geniculate apically, sheath long. Blade oblong-elliptic or lanceolate, oblique, often rather thick, venation usually obscured; midvein narrowly sulcate above, secondary veins weakly or not differentiated, pinnate, running into margin, tertiary veins parallel-pinnate, higher order venation inconspicuous. Inflorescence solitary, erect, bent sideways or nodding. Peduncle relatively long. Spathe convolute, gaping at anthesis, boat-shaped or opening widely, white, caducous. Spadix usually stipitate, rarely sessile, cylindrical. Flowers bisexual, perigone absent. Stamens 4, free, filaments oblong, flattened, connective slender, thecae ovoid-ellipsoid, dehiscent by longitudinal slit. Pollen extruded in strands, fully zonate or inaperturate, hamburger-shaped or subspheroidal, medium-sized (mean 42 µm., range 30–58 µm.), exine psilate to shallowly and sparsely foveolate, fossulate-foveolate, verrucate or baculate. Gynoecium compressed obconic to cylindrical, ovary (1–)2-locular, ovules 4–many per locule, anatropous, arranged in 2 rows, funicles long, placenta basal, stylar region well-developed, usually broader than ovary and truncate, stigma elliptic to punctiform. Berry obovoid, truncate apically, locules 3–many-seeded, white, orange (*S. ulei*) to reddish orange, or yellow. Seed clavate to ellipsoid, raphe prominent, testa thickish, smooth, embryo axile, elongate, endosperm copious.

Life Form

Herb

Substrate

Epiphytic, Hemiepiphytes, Rupicolous

DISTRIBUTION

Native, Not endemic to Brazil

Phytogeographic Domains

Amazon Rainforest, Caatinga, Atlantic Rainforest

Vegetation Types

Amazonian Campinarana, Riverine Forest and/or Gallery Forest, Terra Firme Forest, Ombrophyllous Forest (Tropical Rain Forest)

Geographic Distribution

Confirmed occurrences

North (Amazonas, Amapá, Roraima)

Northeast (Bahia)

Southeast (Espírito Santo)

IDENTIFICATION KEY

1. Flowering spadix erect **2**
 1'. Flowering spadix nodding **3**
2. Spadix (5.5-) 8-16 cm long; petiole shorter than leaf blade; petiole sheath reaching petiole apex; leaf blade 30-42 cm long, usually oblanceolate
multiovulatum
- 2'. Spadix 4.5-5 cm long; petiole longer than leaf blade; petiole sheath 0.8-0.9 times as long as petiole; leaf blade 12-17 cm long, elliptic, oblong or lanceolate
ulei
3. Petiole sheath usually less than 0.5 times as long as petiole; petiole usually (0.6-) 0.8-0.9 (-1.5) times as long as blade; petiole sheath margins apically rounded, not distinctly lax; peduncle 25-30 cm long
spruceanum
- 3'. Petiole sheath 0.7-0.8 times as long as petiole; petiole 0.4-0.6 (-0.8) as long as blade; petiole sheath margins lax, ± auriculate or subventricose; peduncle 14-20 cm long
amomifolium
- Note to user: Leaf blade and petiole measurements should be made from leaves that do not subtend inflorescences.

Stenospermation amomifolium (Poepp.) Schott

DESCRIPTION

Stem: height to 100 cm. **Leaf: petiole length / leaf blade length** 0.4 to 0.6; **petiole sheath length / petiole length (without pulvinus)** 0.7 to 0.8; **petiole sheath apex shape** auriculate/lax; **leaf blade shape** oblanceolate/oblong/narrowly elliptic/lanceolate; **leaf blade length** 15 to 32 cm; **leaf blade width** 3.8 to 7.2 cm; **leaf blade length / leaf blade width** 2.6 to 4.9; **leaf blade base shape** acute/subacute. **Inflorescence: spadix length** 2.5 to 5.3 cm; **spadix position at the anthesis** erect; **peduncle length** 11 to 20 cm.

ADDITIONAL DESCRIPTION

Climbing epiphyte, terrestrial. Stem to 1 m. Petiole about half as long as leaf blade: ratio 0.4-0.6 (-0.8). Petiole sheath shorter than petiole: ratio (0.4-) 0.7--0.8. Petiole sheath margins apically lax, more-or-less auriculate or subventricose. Leaf blade oblong, lanceolate, oblanceolate, narrowly elliptic. Leaf blade 15-32 cm long, 3.8-7.2 cm wide. Leaf blade about 2.6-4.9 times longer than wide. Leaf blade base very acute to subacute. Peduncle 11-20 cm long. Spadix 2.5-5.3 cm long. Spadix erect.

Life Form

Herb

Substrate

Hemiepiphytes

DISTRIBUTION

Native, Not endemic to Brazil

Phytogeographic Domains

Amazon Rainforest, Atlantic Rainforest

Vegetation Types

Terra Firme Forest, Ombrophyllous Forest (Tropical Rain Forest)

Geographic Distribution

Confirmed occurrences

North (Amazonas)

Northeast (Bahia)

HERBARIUM MATERIAL

A.M. Amorim, s.n., MO, 3288334

Stenospermatum multiovulatum (Engl.) N.E.Br.

Has as synonym

heterotypic *Stenospermatum spruceanum* var. *multiovulatum* Engl.

heterotypic *Stenospermatum steyermarkii* G.S.Bunting

DESCRIPTION

Stem: height to 200 cm. **Leaf:** petiole length / leaf blade length 0.6 to 0.7; petiole sheath length / petiole length (without pulvinus) 1.0; petiole sheath apex shape auriculate; leaf blade shape oblanceolate/obovate/oblong/elliptic; leaf blade length 30 to 42 cm; leaf blade width 7 to 14 cm; leaf blade length / leaf blade width 3 to 5.6; leaf blade base shape long - cuneate/ long - acute. **Inflorescence:** spadix length 8 to 16 cm; spadix position at the anthesis nodding; peduncle length 30 to 49 cm.

ADDITIONAL DESCRIPTION

Terrestrial. Stem to 2 m. Petiole shorter than blade: ratio (0.3-) 0.6-0.7. Petiole sheath as long as petiole, reaching geniculum: ratio 1.0. Petiole sheath auriculate at apex. Leaf blade usually oblanceolate, also obovate, also elliptic or oblong. Leaf blade 30-42 cm long, 7-14 cm wide. Leaf blade 3-5.6 times longer than wide. Leaf blade base long-cuneate, long-acute. Peduncle 30-49 cm long. Spadix (5.5-) 8-16 cm long. Spadix nodding.

Life Form

Herb

Substrate

Hemiepiphytes

DISTRIBUTION

Native, Not endemic to Brazil

Phytogeographic Domains

Amazon Rainforest, Atlantic Rainforest

Vegetation Types

Terra Firme Forest, Ombrophyllous Forest (Tropical Rain Forest)

Geographic Distribution

Confirmed occurrences

North (Amapá, Roraima)

Southeast (Espírito Santo)

HERBARIUM MATERIAL

Verveloet, R.R., 2251, MBML

Stenospermatum spruceanum Schott

This treatment is composed of the following taxa: *Stenospermatum spruceanum*, .

Has as synonym

heterotypic *Rhodspatha spruceana* (Schott) J.F.Macbr.
 heterotypic *Rhodspatha weberbaueri* (Engl.) J.F.Macbr.
 heterotypic *Stenospermatum weberbaueri* Engl.
Stenospermatium spruceanum Schott

DESCRIPTION

Stem: height to 100 cm. **Leaf: petiole length / leaf blade length** 0.9 to 1.3; **petiole sheath length / petiole length (without pulvinus)** 0.3 to 0.50; **petiole sheath apex shape** rounded/clasping; **leaf blade shape** oblong/elliptic/lanceolate; **leaf blade length** 21 to 29 cm; **leaf blade width** 7 to 9.5 cm; **leaf blade length / leaf blade width** 3 to 4; **leaf blade base shape** acute/subacute. **Inflorescence: spadix length** 4 to 7.3 cm; **spadix position at the anthesis** erect; **peduncle length** 25 to 30 cm.

ADDITIONAL DESCRIPTION

Terrestrial, trunk epiphyte. Stem to 1 m. Petiole shorter or longer than leaf blade: ratio (0.6 -) 0.9-1.3 (-1.5). Petiole sheath much shorter than petiole: ratio 0.3-0. Petiole sheath margins apically rounded at apex, not distinctly lax. Leaf blade oblong, elliptic, lanceolate. Leaf blade 21-29 cm long, 7-9.5 cm wide. Leaf blade 3-4 (-4.4) times longer than wide. Leaf blade base acute, subacute. Peduncle 25-30 cm long. Spadix 4-7.3 cm long. Spadix erect.

Life Form

Herb

Substrate

Epiphytic, Hemiepiphytes

DISTRIBUTION

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Vegetation Types

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Northeast (Bahia)

Southeast (Espírito Santo)

HERBARIUM MATERIAL

A.M. Giuliatti, 3506, HUEFS

Stenospermation ulei K.Krause

DESCRIPTION

Stem: height to 200 cm. **Leaf:** petiole length / leaf blade length 1.3 to 1.5; petiole sheath length / petiole length (without pulvinus) 0.8 to 0.9; petiole sheath apex shape rounded; leaf blade shape oblong/elliptic/lanceolate; leaf blade length 12 to 17 cm; leaf blade width 5 to 6.2 cm; leaf blade length / leaf blade width 2 to 3; leaf blade base shape acute. **Inflorescence:** spadix length 4.5 to 5 cm; spadix position at the anthesis nodding; peduncle length 40 to 45 cm.

Life Form

Herb

Substrate

Hemiepiphytes, Rupicolous

DISTRIBUTION

Native, Not endemic to Brazil

Phytogeographic Domains

Amazon Rainforest, Atlantic Rainforest

Vegetation Types

Ombrophyllous Forest (Tropical Rain Forest)

Geographic Distribution

Confirmed occurrences

North (Amazonas)

Northeast (Bahia)

Southeast (Espírito Santo)

HERBARIUM MATERIAL

L. Kollmann, 1938, MBML