4.	Leaves 3-4(-5)-lobed, trigones not or hardly developed, branching pinnate or bipinnate
4*.	Leaves with truncate, shallowly 2-3-lobed or truncate apices or entire, trigones prominent, branching more or less dichotomously or shortly pinnate
Loph	ocoleaceae
1.	Perianth laterally compressed, the ventral face narrow, plants ± brownish to fuscous pigmented
1*.	Perianth ± symmetrically trigonous, the angles often winged, plants lacking brownish to fuscous pigmentation
2.	Leaves moderately to deeply adaxially concave, usually entire, rounded, underleaves not as large as the stem
2*.	Leaves usually distinctly bilobed with acute lobes, sometimes irregularly dentate to retuse convex, rarely plane, the apical part often decurved or deflexed (in <i>C. concretus</i>), underleaves larger than stem <i>Chiloscyphus</i>
Loph	oziaceae
1.	Underleaves large; leaves mostly 2-4 lobed, more than 5/6 the leaf length 2
1*.	Underleaves absent; leaves bilobed less than 5/6 the leaf length 3
2.	Leaves asymmetrically 3(-4)-lobed, obliquely inserted; leaf cells with large, bulging trigones
2*.	Leaves symmetrically 4-lobed, transversely inserted; leaf cells with indistinct trigones
3.	Leaves asymmetrically (2-)3-lobed
3*.	Leaves ± symmetrically bilobed
4.	Plants with Anomoclada-type filiform branches Andrewsianthus
4*.	Anomoclada-type branching absent
5.	Leaf insertion transverse (except decurrent part), plants usually brownish Anastrophyllum
5*.	Leaf insertion oblique, succubous, plants usually green to yellowish green Lophozia

9.3. Leafy liverwort genera - Keys to Species in Rwanda

Acanthocoleus R.M.Schust.

Bull. Torrey Bot. Club 97: 339 (1970).

A pantropical genus with 7-8 species. Two species in Rwanda.

References: Kruijt (1988), Vanden Berghen (1978a).

Acrolejeunea (Spruce) Schiffn.

In: Engl. & Prantl, Nat. Pflanzenfam. 1(3): 128 (1893).

A pantropical genus with 15 species with highest diversity in Tropical Asia. One species in Rwanda.

References: Gradstein (1975).

Adelanthus Mitt.

J. Proc. Linn. Soc. Bot. 7: 243 (1864).

Southern hemispheran genus of ca. 15 species. Two species in Rwanda.

Amphicephalozia R.M.Schust.

Nova Hedwigia 22: 133 (1972).

Three species in Southern Chile (*A. amplexicaulis* R.M.Schust.), Madagascar (*A. geisslerae* Pócs & Váňa) and Rwanda (*A. africana* Váňa & Wigginton).

References: Váňa & Wigginton (2008).

Anastrophyllum (Spruce) Steph.

Hedwigia 31: 139 (1893).

About 35 species worldwide. Two species in Rwanda.

References: Váňa (1993), Váňa & Watling (2004c).

- 1*. Plants small to medium sized, dark reddish-brown or purple. Stems up to 0.5-4 cm long, creeping to erect. Leaves succubous, contiguous to imbricate, ± asymmetrically 2-lobed to 0.25-0.5 of their length, 0.6-0.8 x 0.6 mm, leaf lobes strongly incurved. Cells with wide trigones, 10-20 µm in diameter

 A. auritum

Andrewsianthus R.M.Schust.

Rev. Bryol. Lichén. 30: 66 (1961)

A mainly austral genus with ca. 15 species. One species in Africa.

References: Váňa & Watling (2004c).

Apomarsupella R.M. Schust.

J. Hattori Bot. Lab. 80: 79 (1996)

Three species. One species in Africa and Rwanda.

References: Váňa (1985, 1993), Váňa & Watling (2004b).

Bazzania S. Grav

Nat. Arr. Brit. Pl. 1: 704 (1821).

Cosmopolitan genus with about 100 species mainly in the Northern Hemisphere and tropical mountains. Three species in Rwanda.

References: Jones (1975), Pócs (1994a).

...... B. decrescens ssp. decrescens

- 3. Leaves with a vitta of 2-4 rows of large rectangular cells extending nearly to leaf-apex, underleaves not much wider than stem, cell walls colourless

 B. nitida

Blepharostoma (Dumort. emend. Lindb.) Dumort.

Recueil Observ. Jungerm.: 18 (1835).

Three northern hemispheric species. One species in Rwanda.

References: Váňa et al. (1979), Fischer (1993c).

Calypogeia Raddi

Mem. Soc. Ital. Sci. Modena 18: 31 (1818).

A cosmopolitan genus of ca. 90 species. Four species in Rwanda.

References: Bischler (1970), Jones (1976b), Fischer (1993c).

- 2. Underleaves 2-3 x as wide as the stem, always decurrent *C. bidentula*
- 3. Leaves triangular-ovate, narrowed gradually to apex, antical margin strongly arched proximally, nearly straight distally, oil bodies colourless *C. fissa*

Caudalejeunea (Steph.) Schiffn.

In: Engl. & Prantl, Nat. Pflanzenfam. 1 (3): 129 (1893).

A pantropical genus of about 15 species. Two species in Rwanda.

References: Vanden Berghen (1984a).

- 1*. Distinct propaguliferous branches absent, all branches similar . C. lewallei

Cephalojonesia Grolle

In: Grolle & Vanden Berghen, Rev. Bryol. Lichén. 37: 763 (1970).

Genus with one species and two subspecies. One species in Rwanda. *Cephalojonesia incuba* Grolle & Vanden Berghen ssp. *incuba* is known from tropical Africa, ssp. *mexicana* Burghardt, Gradst. & Váňa from Mexico (Burghardt *et al.*, 2006).

References: Vanden Berghen (1972a), Jones (1987).

Cephalozia (Dumort.) Dumort.

Recueil Observ. Jungerm. 18 (1835).

About 30-40 mainly northern hemisphere species. Three species in Rwanda.

References: Váňa (1988).

Cephaloziella (Spruce) Schiffn.

In: Engl. & Prantl, Nat. Pflanzenfam. 1 (3): 98 (1893).

Cosmopolitan genus with about 40 species. Two species in Rwanda.

References: Wigginton (2004).

Hedwigia 31: 13, 16 (1892). References: Vanden Berghen (1951). Pantropical genus with about 30 species. One species in Rwanda. Cheiloleieunea (Spruce) Schiffn. In: Engl. & Prantl, Nat. Pflanzenfam. 1 (3): 121 (1893). Synonym: Leucolejeunea A. Evans, Torreya 7: 225 (1907). A pantropical genus with about 80 species. Seven species in Rwanda. References: Jones (1954a,b, 1985a, 1988), Pócs (1994b), Malombe (2009). 1. Leaf lobes usually ovate, strongly convex, apices sharply acute and recurved, underleaves bilobed up to 1/3 of their length, usually not exceeding 4 x the width of the stem (except reniform underleaves of C. omphalogastria) 2 1*. Leaf lobes rounded to oblong, flat or shallowly convex, apices rounded, plane, hardly recurved, underleaves shortly bilobed to entire or retuse, reniform to orbicular 5 2. Lobule with apical tooth spiniform, unicellular, acute, free marginal cells usually up to 8, cell walls with distinct trigones, leaf lobes caducous, perianth 2*. Lobule with apical tooth blunt or rounded, much reduced to multicellular. free marginal cells of ventral side usually up to 13-22, cell walls with trigones 3. Underleaves not exceeding 4 x the stem width, leaf lobe length and width Underleaves at least 4 x the stem width, leaf lobe length and width ratio at 3*. least 1.3 or more 4 4. Leaf apex mucronate, underleaves reniform, 5-6 x as wide as the stem, Leaf apex acuminate to broadly rounded, underleaves rounded to obcordate, 4*. 5. Lobule rectangular to oblong, usually more than 1/2 as long as the lobe, inflated, ventral free margin inrolled covering the apical tooth, oil bodies 1 Lobule ovate to triangular, usually up to 2/5 as long as the lobe, oil bodies 5*.

Ceratolejeunea (Spruce) J.B. Jack & Steph.

Chiloscyphus Corda

Naturalientausch 12, Beitr. Naturg. 1: 651 (1829).

Synonym: Lophocolea (Dumort.) Dumort., Recueil Observ. Jungerm.: 17 (1835).

A genus with about 100-200 species, mainly in the tropics and the Southern Hemisphere. Five species in Rwanda.

References: Jones (1953c), Grolle (1959), Arnell (1956), Fischer (1993c).

- 5. Small plants, leaves rarely more than 1 mm long, not very asymmetric, bilobed to not more than a sixth of their length, apiculi short .. *C. difformis*

Clasmatocolea Spruce

Trans. & Proc. Roy. Bot. Soc. Edinburgh 15: 440 (1885).

About 20 mostly Southern Hemisphere species. One species in Rwanda.

References: Grolle & Vanden Berghen (1970).

Cololejeunea (Spruce) Schiffn.

In: Engl. & Prantl, Nat. Pflanzenfam. 1(3): 121 (1893).

Synonym: Aphanolejeunea A. Evans, Bull. Torrey Bot. Club 38: 272 (1911).

The genus *Aphanolejeunea*, accepted by Wigginton (2004) was not supported by molecular studies (Heinrichs *et al.*, 2005; Gradstein *et al.*, 2006; Wilson *et al.*, 2006). Subsequently Pócs & Bernecker (2009) transferred all former *Aphanolejeunea* taxa to *Cololejeunea*.

Cosmopolitan, with greatest diversity in montane rainforests, about 200 mainly epiphyllous species. 65 species in Africa and 31 in Rwanda.

References: Jones (1953a,b, 1954c), Vanden Berghen (1971, 1972b, 1977), Pócs (1975, 1984b, 1993), Tixier (1995).

- 1*. Lobule usually small compared with the lobe, not exceeding half of lobe surface, reduced leaves absent or rare, innovations of the Lejeunea-type (with basal collar), small or medium-sized plants...... Cololejeunea s.str. 5

4.	Lobule tooth 2(-3)-celled, falcately curved, lobe apex tria apiculate, with entire or only slightly irregularly dentate conical protuberances only at keel or throughout dorsal even on lobule, lobule 55-63% of lobe length, 8-13 cells b	margin, lobe with lobe surface and road
4*.	Lobule tooth 1-2-celled, straight and sometimes acute triangular, margin crenulated by protruding cells, lobe e conical or fingerlike mammillae, lobule 70-80% of lobe lebroad	venly covered by ength, 12-16 cells
5.	Hyaline margin present	6
5*.	Hyaline margin absent	8
6.	Hyaline margin long and conspicuous C.	. distalopapillata
6*.	Hyaline margin short and reduced, only at apex of lobe	7
7.	Cells sometimes papillate at apex of lobe, pseudovitta short, at base of lobe, hyaline margin often reduced or ab	sent
7*.	Cells never papillate, vitta or pseudovitta absent, hyaline but always present	margin reduced,
8.	Central vitta or pseudovitta present	9
8*.	Central vitta or pseudovitta absent	13
9.	Pseudovitta long	C. platyneura
9*.	Pseudovitta short, more or less diffuse	10
10.	Perianth spherical	C. sphaerocarpa
10*.	Perianth ovoid	11
11.	Large inflated lobules and small reduced lobules present	
11*.	All lobules small and reduced	12
12.	Lobules triangular	C. obtusifolia
12*.	Lobules linear, rectangular	. C. lobulilineata

13.	Leaves ovate-lanceolate, acuminate, lobules entirely reduced or well-developed
13*.	Leaves of variable shape, if ovate-lanceolate and acuminate, then lobules well developed
14.	Two innovations below perianth, plant thus with dichotomic branching pattern
14*.	Only one innovation below perianth15
15.	Lobules all reduced
15*.	Well developed lobules and reduced lobules present C. pseudopusilla
16.	Leaves broadly ovate to orbicular, obtuse C. minutissima
16*.	Leaves of variable shape, never orbicular
17.	Cells of lobe not or only slightly papillate
17*.	Cells of lobe papillate, at least the marginal cells
18.	Lobe elongate, lanceolate
18*.	Lobe rounded
19.	Lobe margin dentate
19*.	Lobe margin entire
20.	Cell walls very delicate
20*.	Cell walls normal
21.	Reduced lobules present
21*.	Reduced lobules absent
22.	Perianth with protruding cells at mouth, first tooth of lobule with 2 cells, hyaline papilla at base of apical tooth cell
22*.	Median tooth of lobule with 2 cells in a row and 3 cells at base, hyaline papilla at apex of apical tooth cell
23.	Hyaline papilla at apex of median lobule tooth
23*.	Hyaline papilla at proximal base of median lobule tooth

24.	Apical tooth of lobule prominent, with 4 cells	. C. zenkeri
24*.	Apical tooth of lobule smaller, with only 1-2 cells, or indistinct, h	
25.	Apical tooth distinct	C. fischeri
25*.	Apical tooth indistinct, hardly visible C. pse	udoobliqua
26.	Medium-sized species, up to 1 mm large (including leaves) C. ru	
26*.	Small species, up to 0.5-0.7 mm large (including leaves)	27
27.	Median tooth of lobule arched	. C. tenella¹
27*.	Median tooth of lobule different	28
28.	Lobe rounded	C. capuronii
28*.	Lobe acuminate	29
29.	Margin of lobule irregularly dentate C. mocal	mbiquensis
29*.	Margin of lobule with not more than 1-2 regular teeth	30
30.	At least some lobules large, about 1/3 of the lobe	. C. frahmii
30*.	All lobules small, consisting only of few cells and an obliquely tooth	
	ura (Dumort.) Dumort. ueil Observ. Jung.: 12 (1835).	
Pantr	ropical genus with about 70 species. Five species in Rwanda.	
Refe	rences: Jones & Pócs (1987), Pócs (1991).	
1.	Leaf sac contracted at apex into a narrow horn, leaf cells with tr to very small or absent, intermediate thickenings absent	
1*.	Leaf sac rounded or conical, not forming a narrow horn, leaf with large trigones and intermediate thickenings	
2.	Leaf sac abruptly narrowed into a beak of c. 1/2 of total leaf len	
2*.	Leaf sac abruptly narrowed into a beak of 1/4 to 1/3 of total lea	f length 3

Cololejeunea tenella has been recorded by Tixier (1995). I have not seen any specimen, and the record may be erroneous. C. tenella is thus omitted from the special part.

3. Each cell of lobe and perianth distinctly papillose, walls with large nodular 3*. Cells of lobe and perianth not papillose, walls without trigones . C. calyptrifolia 4. Leaves 1.1-1.8 mm long, valve ovate, bordered by 15-18 hyaline cells, underleaves acute, lobes 5-8 cells wide at base, epiphyllous or epiphytic 4*. Leaves 1.6-2 mm long, valve ligulate, bordered by 27-30 hyaline cells, underleaves with acute lobes 10-12 cells wide at base, exclusively epiphytic on Cylindrocolea R.M.Schust. Bull. Natl. Sci. Mus. (Tokyo) 12: 666 (1969). Pantropical genus with about 12 species from lower to medium altitudes. Two species in Rwanda. References: Jones (1960), Arnell (1963), Váňa (1993). 1*. Leaves imbricate or spreading; perianth not contracted to the entire and lobed Diplasiolejeunea (Spruce) Schiffn. In: Engl. & Prantl, Nat. Pflanzenfam. 1(3): 118, 121 (1893). Pantropical genus with about 65-70 species. Nine species in Rwanda. References: Vanden Berghen (1960, 1977), Pócs (1993, 1994a), Tixier (1995). 1. Lobes of underleaves obtuse or subobtuse at apex, 6-12 cells wide at base . 2 1*. Lobes of underleaves acuminate or acute at apex, 2-10 cells wide at base ... 5 2. Leaf-lobe with large basal ocellus, stem with leaves 1,2-1,5 mm wideD. deslooveri 2*. 3. Stem with leaves 1.3-1.5 mm wide, leaves with propagules different from 3*. Stem with leaves 1.5-2.2 mm wide, leaves with propagules absent or similar to remaining leaves, lobe sometimes involute at apex but never cylindrically

- 6. Leaf lobes with isolated or grouped laminal ocelli, 1(-3) basal ocelli present

 D. kraussiana
- 6*. Leaf-lobes without laminal ocelli, 1-5 isolated or grouped basal ocelli present .. 7
- 7*. Margin of lobe sometimes obtusely and irregularly paucidentate, crenulated, median tooth of lobule with 2-3 cells, keels of perianth distally prolonged into a short conical horn acuminate at apex, sometimes paucidentate *D. cornuta*

Diplophyllum (Dumort.) Dumort.

Recueil Observ. Jungerm.: 15 (1835) nom. cons.

A genus of ca. 20 species in the Northern Hemisphere and tropical mountains. One species in Rwanda.

Drepanolejeunea (Spruce) Schiffn.

In: Engl. & Prantl, Nat. Pflanzenfam. 1(3): 119, 126 (1893).

A pantropical genus of about 100 species. Six species in Rwanda.

References: Vanden Berghen (1961, 1977), Tixier (1995), Buchbender & Fischer (2004).

2.	Cells of lobe papillose on dorsal side
2*.	Cells of lobe not papillose on dorsal side
3.	Apex of lobe obtuse, underleaves usually ending in 2 adjacent cells, female bracts entire or only slightly dentate
3*.	Apex of lobe acuminate, underleaves ending with one single cell, female bracts distinctly dentate
4.	Lobe entire-sinuate, perianth with smooth keels D. deslooveri
4*.	Lobe dentate, perianth with distinct horns on keel 5
5.	Lobe with distinct tooth at outer margin at level of lobule apex
	D. ruandensis
5*.	Lobe without distinct tooth at outer margin
	ania Raddi ermanniografia Etrusca: 9 (1818).
	nopolitan with diversity centres in the tropics, about 200-300 species, 14 les in Rwanda.
Refe	rences: Vanden Berghen (1976a), Fischer (1993c).
1.	Lobules inflated throughout, the dorsal and ventral faces approximately equal in area, lobule connected to the lobe by a short fold at almost right angles to the stem
1*.	Lobules inflated in the upper part only, the dorsal faces much larger than the ventral faces, with a large, flat region connected to the lobe by an arched fold, whose outer portions are subparallel to the stem (Subgenus Chonanthelia)
2.	Inflated lobules cylindrical, distinctly longer than broad (usually 1.5-3 x as long as broad (Subgenus <i>Frullania</i>)
2*.	Inflated lobules caplike, very short and broad-cylindrical, often compressed at mouth, about as broad as long (lobules sometimes explanate and lanceolate) (Subgenus <i>Trachycolea</i>)
3.	Lobules oblique in position to stem, forming with stem an angle between (20) 30-45°, in upper branches up to 60-90° <i>F. lindenbergii</i>
3*.	Lobules arranged parallel to stem or forming with stem an angle less than 30°, sometimes apex of lobule directed towards stem in branches 4

4.	Leaf lobes acuminate or apiculate
4*.	Leaf lobes ± rounded-obtuse
5.	Gynoecia at end of stem or prolonged branch, 1(-2) innovations, dorsal base of leaf lobe appendiculate, convex or truncate
5*.	Gynoecia at end of short lateral branches, generally without innovations, dorsal base of leaf lobe convex or appendiculate
6.	Dorsal base of leaf lobe distinctly convex, underleaves 3-5 x as large as the stem, frequently with decurved margins <i>F. schimperi</i>
6*.	Dorsal base of leaf lobe truncate or slightly convex, underleaves 2-3 x as large as the stem, with plane margins <i>F. apicalis</i>
7.	Primary branch appendage (hemiphyll) oval, not bilobed, leaf lobe apex generally exposed, lobe and lobule of female bracts ± entire, dioicous species
7*.	Primary branch appendage bilobed, leaf lobe apex generally involute, lobe and lobule of female bracts densely laciniate or dentate F. serrata
8.	Gynoeceum at apex of a short lateral branch, without innovations, monoicous
8*.	Gynoeceum at apex of an elongated branch, with 1(-2) innovations, dioicous
9.	Perianth with 2-3(-5) ventral keels
9*.	Perianth 3-carinate, with 1 ventral keel, rough with short processes 11
10.	Plants with abundant propagules developing from the marginal cells, stylus small, lanceolate to ligulate, 2-3 cells wide at base <i>F. obscurifolia</i>
10*.	Plants usually lacking propagules, stylus large, ligulate, 3-6 cells wide at base
11.	Mid-leaf cells more than 30 μ m long, robust plants, not squarrose in wet state, main shoots (1.3-)2-2.5(-2.8) mm wide, leaf lobule with an \pm apiculate rostrum, underleaves with cordate base, perianth smooth <i>F. caffraria</i>
11*.	Mid-leaf cells less than 30 μ m long, less robust plants, main shoots (0.7-) 0.85-1.8(-2) mm wide

Frullanoides Raddi

Critt. Bras.: 13 (1822).

A genus with 7 species mainly in the Neotropics. One species in Rwanda.

References: van Slageren (1985).

Gongylanthus Nees

Naturgesch. Eur. Leberm. 2: 405 (1836).

Five species, mainly Southern hemispheran. One species in Rwanda.

References: Jones (1964).

Gottschea Nees ex Mont.

Ann. Sci. Nat., Bot., ser. 2, 19: 245 (1843)

19 species mainly in the Palaeotropics. One species in Rwanda.

References: Jones (1976a).

Gymnomitrium Corda

In: Opiz, Beitr. Naturk. 1: 651 (1829).

About 15 species mainly in the Northern Hemisphere in dry, acidic montane habitats. One species in Rwanda.

References: Váňa & Watling (2004c).

Haplomitrium Nees

Naturg. Europ. Leberm. 1: 109 (1833) nom. cons.

Seven species in the Holarctic and tropical mountains, two species in Africa. One species in Rwanda.

References: Grolle (1993).

Harpalejeunea (Spruce) Schiffn.

In: Engl. & Prantl, Nat. Pflanzenfam. 1(3): 119, 126 (1893).

Pantropical genus with about 20 species, mainly in the neotropics (10-15 species). One species in Rwanda.

References: Tixier (1995), Buchbender & Fischer (2004).

Herbertus S.F. Gray

Nat. Arr. Brit. Pl. 1: 705 (1821).

About 40-50 species, widely distributed in the northern hemisphere and on tropical mountains. Two species in Rwanda.

References: Hodgetts (2008).

Isotachis Mitt.

In: Hooker, Fl. Nov.-Zel. 2: 148 (1854).

A Southern Hemisphere genus with ca. 15 species. In Rwanda only one species recognized.

References: Váňa (1982), Fischer (1993c).

Jamesoniella (Spruce) Carring

In: Lees, London Catal. Brit. Moss. Hepat., ed. 2: 25 (1881).

14 species worldwide. One species in Rwanda.

References: Grolle (1970).

Kurzia G. Martens

Flora 53: 417 (1870).

Cosmopolitan genus with about 30 species mainly in the Northern Hemisphere and in tropical mountains. Two species in Rwanda.

References: Arnell (1963), Pócs (1984a).

Lejeunea Libert

Annales Gén. Phys. Bruxelles 6: 372 (1820).

Mainly warm-temperate and pantropical, comprising about 100-150 species. 15 species in Rwanda.

References: Jones (1967, 1968, 1969, 1972, 1974a,b, 1985a,b, 1989), Pócs (1993, 1994a), Vanden Berghen (1961).

(, 100 10), 1011001 = 0.9.1011 (100 1).
1.	Leaf apex pointed to acuminate, perianths not compressed, with 5 equal keels
1*.	Leaf apex rounded, perianths variable, compressed or not
2.	Plants dioicous, usually elongate, little branched and free hanging, cell walls often thickened, with large nodulose trigones and intermediate thickenings
2*.	Plants monoicous, prostrate, richly branched, cell walls thin, trigones and intermediate thickenings small or absent
3.	Underleaves large, 3-5 x as wide as the stem, 2-lobed to 0.2 of their length, with a wide sinus, lobes of female bracts and bracteoles dentate
3*.	Underleaves smaller, 2-3.5 x as wide as the stem, 2-lobed to 0.5 of their length, lobes of female bracts and bracteoles entire
4.	Perianth keels abruptly expanded distally, forming widely spreading inflated wings, perianths on short lateral branches, with a short sterile or male innovation
4*.	Perianth keels shallow, gradually expanded distally, not forming inflated wings, perianths on short innovations which usually bears other gynoecia Taxilejeunea
5.	Plants autoicous
5*.	Plants dioicous
6.	Perianths without keels, leaves large, rounded at apex, up to 0.35-0.48 mm long, cell walls thin, without or with very small trigones
6*.	Perianths at least with 2 lateral and 2 ventral keels or with 5 keels

7.	Perianths compressed, cells thin walled, with trigones small or lacking
7*.	Perianths terete or slightly compressed, with 4 equal keels (2 lateral, 2 ventral) or with 5 keels, the dorsal keel smaller than the other 4, cells with or without trigones
8.	Leaf cell walls with large trigones and intermediate thickenings, underleaves large, ovate or cordate-ovate, 2-4 x as wide as the stem, sinus narrow perianth with dorsal keel weaker than the others or lacking
8*.	Leaf cell walls with small or absent trigones or intermediate thickenings, or if trigones present then intervening walls thin, underleaves rounded or very small, 2-6 x as wide as stem, sinus wide, perianths with 5 equal keels 10
9.	Leaves spreading from stem nearly at right angle, underleaves truncate at base, plants with creeping stems
9*.	Leaves erecto-patent, spreading from stem at more narrower angle (ofter 45-55°), underleaves distinctly cordate at base, stems erect and irregularly pinnate
10.	Underleaves 3-6 x as wide as the stem, insertion strongly arched, usually epiphytic on tree ferns
10*.	Underleaves 2.5-3.5(-4) x as wide as the stem, insertion nearly straight usually epiphytic on various species
11.	Ventral margin of leaf forming deep sinus (-90°) with strongly arched keel perianth tuberculate or irregularly dentate, sometimes with 2-3-celled processes
11*.	Ventral margin of leaf \pm in line with, or making a wide sinus with gently archeokeel, perianth keels usually smooth
12.	Plants small or delicate, leaf cells with sharply defined medium-sized or smal trigones, or trigones absent, underleaves $1.5-2.5~x$ as wide as the stem . 13
12*.	Plants robust, leaf cells with large trigones and intermediate thickenings underleaves 3-5 x as wide as the stem
13.	Underleaves very small, to 1.5 x as wide as the stem, thin-textured and often imperfect, deeply 2-lobed with narrow lobes, antical base of lobe not crossing or scarcely crossing the midline of stem
13*.	Underleaves larger, usually more than 1.5 x as wide as the stem, 2-lobed to 0.5 x of their length, antical base of lobe distinctly crossing the midline of stem

- 14*. Leaf lobes never caducous, approximate to distant, underleaves usually 2-2.5 x as wide as the stem, oval, slightly longer than wide *L. helenae*

Lepidozia (Dumort.) Dumort.

Recueil Observ. Jungerm.: 19 (1835).

Cosmopolitan genus with about 75 species mainly in the Northern Hemisphere and in tropical mountains. Five species in Rwanda.

References: Pócs (1984a, 1993).