A Key to the African species of the genus Caudalejeunea

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Extracted from: Le genre *Caudalejeunea* (Steph.) Schiffn. (Lejeuneaceae, Hepaticae) en Afrique *Cryptogamie, Bryol. Lichenol.* **5 (1-2)**:99-109 (1984)

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1	Plant bearing erect propaguliferous branches which possess leaves and underleaves which clearly differ, in their form and their dimensions, from the leaves and underleaves which are appressed to the substrate. The underleaves of these propaguliferous branches have lateral borders which are sometimes obliquely revolute	(Subgenus Vermilejeunea) 2
1	Plants possessing no propaguliferous branches which differ from sterile branches and from stems appressed against the substrate. Underleaves never with obliquely revolute margins	5
2	Leaves on propaguliferous branches with a lobe folded longitudinally into a groove which is rigid, even when dry. Underleaves on such stems are 3 - 5 times as wide as the stem, bearing a median boss rupturing the ventral face, & surmounted by a small leafy appendage. Perianth probably ventrally bicarinate	C. yangambiensis
2	Leaves on propaguliferous branches not folded into a groove, though sometimes with an involute ventral margin. Underleaves lacking a median boss surmounted by a small leafy appendage. Perianth with 0 - 2 ventral keels	3
3	Underleaves on propaguliferous branches 4 - 5 times as wide as the stem, entire, truncate / retuse at the summit	Caudalejeunea sp. A
3	Underleaves on propaguliferous branches 5 - 7 times as wide as the stem, shortly bidentate at the tip, and distally denticulate	4
4	Female bracteole suborbicular or widely oboval. Perianth with 1 -2 ventral keels, often irregularly winged distally	C. madagassa
4	Female bracteole elliptic, about 1.25 times as long as wide. Perianth without, or with an obtuse, ventral keel	C. dusenii
5	Frullania-type branches possibly present. Female bracts with a well developed lobule, longly open at the tip. Hyaline papilla of leaf lobules inserted on the internal face of the lobule. Perianth with 5 keels, 2 being ventral, 1 dorsal, the latter feebly developed. No propagules. Plant appressed to the substrate, with leafy branches 1000 - 1300µm wide.	(Subgenus Acaudalejeunea) C. grolleana
5	Frullania-type branches never present. Female bracts with a lobule reduced to a narrow subrectangular strip. Hyaline papilla of leaf lobules marginal. Perianth with 0 - 2 ventral keels, and 0 (- 2) dorsal keels. propagules often present. Leafy branches normally more than 1500µm wide	(Subgenus Caudalejeunea) 6
6	Perianth with two main ventral keels, and 2 - 4 supplementary keels, both ventral and dorsal, in the apical area.	(<i>C.</i> katangensisgroup) 7
6	Perianth with 0 - 1 ventral keels; sometimes two feebly developed ventral keels present, without supplementary keels	(<i>C.</i> hanningtoniigroup) 8
7	Lobe of female bracts entire, possibly slightly sinuose-crispate at the margins. Female bracteoles bidentate at the tip, with entire-sinuate lateral borders; possess a median boss surmounted by a foliaceous appendage. Species probably dioecious	C. katangensis

7	Lobe of female bracts denticulate. Female bracteoles bidentate at tip, and denticulate in the apical region, not having a median boss surmounted by a foliaceous appendage. Monoicous species	Caudalejeunea sp. B
8	Perianth with a sharp edged ventral keel, or with several clearly defined ventral keels. Monoicous or dioicous species	9
8	Perianth devoid of ventral keel; or with a very obtuse ventral keel; or, sometimes two feebly developed ventral keels. Monoicous species	10
9	Female bracteole widely oval, attenuate-pointed, and bidentate at the tip. Lateral borders entire-sinuate. No median longitudinal keel with one or two leafy appendages at the tip. Monoicous species	C. lehmanniana
9	Female bracteole oval-oblong, obtuse and bidentate at the tip. Lateral borders irregularly laciniate-dentate. One median longitudinal keel present possibly bearing 1 - 2 leafy appendages. Dioicous species	C. lewallei
10	Leaf lobes of sterile branches more-or-less applied to the stem in the dry state, distinctly toothed, with relatively narrow central cells (20-24µm x 35-40µm) androecia with 8 - 15 (30) pairs of bracts	C. africana
10	Leaf lobes of sterile branches spreading when dry, sub-entire, with relatively wide central cells (24-30µm x 30-40µm) Androecia short, with 3 - 8 pairs of bracts	C. hanningtoni

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