

## THREE NEW COMBINATIONS IN *BARBACENIA* (VELLOZIACEAE)

R. MELLO-SILVA<sup>1,2</sup>

<sup>1</sup>Instituto de Biociências, Universidade de São Paulo, Caixa Postal 11461, São Paulo, 05422-970, Brazil.

### ABSTRACT

In order to provide correct names for some other publications, and following results from cladistic analyses of Velloziaceae, three new combinations in *Barbacenia*, *B. fanniae*, *B. pungens*, and *B. rodriguesii*, are proposed.

In the Velloziaceae classification of Menezes (1980a, 1988), the *Barbacenia* Vand. has been split into four genera: *Aylthonia* N.L.Menezes, *Barbacenia*, *Burlemarxia* N.L.Menezes & J.Semir, and *Pleurostima* (see Mello-Silva 1991). Several combinations have been made in *Aylthonia* (Menezes 1971) and in *Pleurostima* (Menezes 1980b, 1981), along with two new species each of *Pleurostima* Raf. (Menezes 1980b, Mello-Silva & Menezes 1988) and *Burlemarxia* (Menezes & Semir 1991).

Cladistic analyses of the entire family (Mello-Silva 2005, Mello-Silva et al. in prep.) have shown that the genus *Pleurostima* is a polyphyletic assemblage. In the former analysis, *Burlemarxia* emerged as monophyletic and sister to the rest of the species but in the latter, although still monophyletic, it emerges as a derived group within *Barbacenia*, making this a paraphyletic assemblage. As a conclusion, neither *Burlemarxia* nor *Pleurostima* should be recognized (Mello-Silva et al. in prep.).

In order to provide correct names for some other publications, and to complete the combinations initiated by Mello-Silva (1994), three new combinations in *Barbacenia* are proposed here.

***Barbacenia fanniae*** (N.L.Menezes) Mello-Silva, **comb. nov.**

Basionym: *Pleurostima fanniae* N.L.Menezes, Bol. Bot. Univ. São Paulo 8: 65. 1980. ("*fanniei*").

Type: BRAZIL. Rio de Janeiro. Santa Maria Madalena: Cultivada no Departamento de Botânica da Universidade de São Paulo, 20 Jan 1977 (fl), *N.L.Menezes 670* (Holotype: SPF).

***Barbacenia pungens*** (N.L.Menezes & Semir) Mello-Silva, **comb. nov.**

Basionym: *Burlemarxia pungens* N.L.Menezes & Semir, Taxon 40: 424. 1991.

Type: BRAZIL. Minas Gerais. Diamantina: estrada para Conselheiro Mata, Km 185, 16 Dec 1985 (fl, fr), *N.L.Menezes, V.C.Souza & R.Simão CFCR 8833* (Holotype: SPF, isotypes: K, UEC, US).

---

<sup>2</sup>CNPq Research Fellow PQ-2

***Barbacenia rodriguesii*** (N.L.Menezes & Semir) Mello-Silva, **comb. nov.**

Basionym: *Burlemarxia rodriguesii* N.L.Menezes & Semir, *Taxon* 40: 424. 1991.

Type: BRAZIL. Minas Gerais. Gouveia: cerca de 4 km da sede da fazenda Contagem, na estrada para a fazenda, 14 Dec 1980 (fl), *N.L.Menezes, J.R.Pirani, I.Cordeiro, A.Furlan & M.T.U.Rodrigues 1089 (CFCR5000)* (Holotype: SPF, isotypes: K, UEC).

148:157-173.

Mello-Silva, R. & Menezes, N.L. 1988. Duas espécies novas de Velloziaceae de Minas Gerais. *Acta Botanica Brasilica* 1(supl.):195-207.

Menezes, N.L. 1971. New taxa and new combinations in Velloziaceae. *Ciência & Cultura* 23:421-422.

Menezes, N.L. 1980a. Evolution in Velloziaceae with special reference to androecial characters. Pages 117-139. In: Brickell, C.D.; Cutler, D.F.; Gregory, M. *Petaloid monocotyledons: Horticultural and botanical research*. Academic Press, London.

Menezes, N.L. 1980b. Nova espécie e novas combinações no gênero *Pleurostima* Raf. (Velloziaceae). *Boletim de Botânica da Universidade de São Paulo* 8:65-69.

Menezes, N.L. 1981. Re-establishment of genus *Pleurostima* Rafinesque (Velloziaceae). *Revista Brasileira de Botânica* 3:37-47. ("1980").

Menezes, N.L. 1988. Evolution of the anther in the family Velloziaceae. *Boletim de Botânica da Universidade de São Paulo* 10:33-41.

Menezes, N.L. & Semir, J. 1991. *Burlemarxia*, a new genus of Velloziaceae. *Taxon* 40:413-426.

#### LITERATURE CITED

Mello-Silva, R. 1991. The infra-familial taxonomic circumscription of the Velloziaceae: a historical and critical analysis. *Taxon* 40:45-51.

Mello-Silva, R. 1994. A new species, new synonyms and a new combination in Brazilian Velloziaceae. *Novon* 4:271-275.

Mello-Silva, R. 2005. Morphological analysis, phylogenies and classification in Velloziaceae. *Botanical Journal of the Linnean Society*