

BRAZIL: NOMENCLATURAL REVISION IN CACTACEAE IV

Arrojadoa Britton *et* Rose, The Cact. 2: 170 (1920).

Arrojadoa multiflora F.Ritter **subsp. luetzelburgioides** (N.P.Taylor *et* Zappi) Guiggi **comb. et stat. nov.** *Basionymus*: *Arrojadoa luetzelburgioides* N.P.Taylor *et* Zappi, in Bradleya 42: 31 (2024). **Typus**: Brazil, Bahia, Mun. Macaúbas, 950-1000 m, 8 Nov. 2023, D.C.Zappi *et* N.P.Taylor 6269 [UB, *holo.*; RB, *iso.*]. **Distributio**: NE Brazil. **Notae**: an identified infra-specific taxon related to *Arrojadoa multiflora* [validly published by F. Ritter (*cfr.* 1979: 89-90), *fide* IPNI database, accessed on July 12 2025], distinguished by its enlarged stem base (vs. not enlarged stem base), thinner stem (10-12 vs. 10-20 mm in diameter), more spaced areoles (to 20 vs. 4-7 mm apart) and longer spines (to 20 vs. to 10 mm long), flowers, fruits and seeds are conspecific with *Arrojadoa multiflora* (*cfr.* Taylor *et al.*, 2024: 31).

Pierrebraunia Esteves, in Cact. Succ. J. (U.S.) 69(6): 296 (1997).

Pierrebraunia bahiensis (P.J.Braun *et* Esteves) Esteves **subsp. minutiflora** (Gonzaga *et* Oliveira-Pereira) Guiggi **comb. nov.** *Basionymus*: *Arrojadoa bahiensis* subsp. *minutiflora* Gonzaga *et* Oliveira-Pereira, in Phytotaxa 684(1): 130 (2025). **Typus**: Brazil, Bahia, Piatã, Chapada Diamantina, Serra de Santana, 6 Aug. 2019, F.O.Pereira 192 *et* R.Goloni [UFG, *holo.*]. **Distributio**: NE Brazil. **Notae**: a recognised geographical subspecies from a restricted area of Piatã municipality in Bahia state, principally distinguished by its smaller flowers and fruits, with a lighter color (*cfr.* Gonzaga & Oliveira-Pereira, 2025: 130).

Uebelmannia Buining, in Succulenta 46: 159 (1967).

Uebelmannia pectinifera Buining **subsp. nuda** (Zappi *et* N.P.Taylor) Guiggi **comb. et stat. nov.** *Basionymus*: *Uebelmannia nuda* Zappi *et* N.P.Taylor, in Taxon 73(4): 994 (2024). **Typus**: Brazil, Minas Gerais, Parque Nacional das Sempre Vivas, Mun. Bocaiúva, alto da serra, ca.1200 m, 26 Apr. 2023, F.N. Costa, P. Leão *et* S.N.Fonseca 2293 (UB, *holo.*; DIAM, RB *iso.*). **Distributio**: SE Brazil. **Notae**: this new peculiar taxon is here identified as an aberrant ecological subspecies of *Uebelmannia pectinifera* adapted to a disturbed area of quartz gravel (vs. rocky substrate), characterised by its semi-buried *habitus*, spineless stem, with a higher number of ribs, to 50 in number (*cfr.* Zappi *et al.*, 2024: 994). The phylogenetic close relationships between the two analysed taxa is confirmed in the dendrogram included in Zappi *et al.* (2024: 994).

Xiquexique Lavor, Calvente *et* Versieux, in PlantNow 1(2): 63 (2020).

Xiquexique gounellei (F.A.C.Weber *ex* K.Schumann) Lavor *et* Calvente **f. braunii** (Esteves) Guiggi **stat. nov.** *Basionymus*: *Pilosocereus braunii* Esteves, in Kakt. and. Sukk. 38(5): 132 (1987). **Typus**: Brazil, Bahia, W Rio São Francisco, 400-550 m, Jun. 1979, P.J.Braun 70 [ZSS, *holo.*; K *spec.*

vis., B, iso.]. Synonymi: *Xiquexique braunii* (Esteves) M.Köhler, in *Phytotaxa* 641(3): 238 (2024); *Xiquexique gounellei* subsp. *braunii* (Esteves) N.P.Taylor et Zappi, in *Bradleya* 2024(42): 98 (2024).
Distributio: NE Brazil. **Notae:** Taylor & Zappi (2024: 98) recognised *Pilosocereus braunii* as a subspecies of *Xiquexique gounellei* cause of the presence of a sunken true *cephalum* vs. a superficial *cephalum* in the latter taxon. Nevertheless, this character appears variable in the natural habitat of the analysed taxon (cfr. Köhler, 2024: 239), for this reason is here considered only like a *forma* of *Xiquexique gounellei*.

Bibliographia

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Gonzaga, D.R., and F.de Oliveira Pereira. 2025. *Arrojadoa bahiensis* subsp. *minutiflora* (Cactaceae, Cactoideae), a new subspecies from the Brazilian flora. *Phytotaxa*. 684(1): 129-134.
Köhler, M. 2024. New combinations and taxonomic notes in *Cereinae* (Cactoideae, Cactaceae) of Brazil. *Phytotaxa*. 641(3): 238-242.
Ritter, F. 1979. *Kakteen in Südamerika 1: Brasilien/Uruguay/Paraguay*. Selbstverlag, Spangenberg.
Taylor, N.P., D.C. Zappi, and A.M. de Ligório Sant'Ana. 2024. *Arrojadoa luetzelburgioides*, a new species allied to *A. multiflora* (Cactaceae) and a key to the recently expanded genus. *Bradleya*. 42: 29-38.
Taylor, N.P., D.C. Zappi, M. Lowry, and S. Albuquerque-Lima. 2024. Additions and corrections to Cacti of Eastern Brazil (4). *Bradleya*. 42: 86-114.
Zappi, D.C. et al. 2024. A microendemic and enigmatic new cactus species from the campo rupestre of Minas Gerais, Brazil: *Uebelmannia nuda* (Cactaceae, Cactoideae). *Taxon*. 73(4): 992-1000.

TAXONOMIC AND NOMENCLATURAL NOVELTIES IN THE BRAZILIAN *MELOCACTI* (CACTACEAE-CEREEAE)

Melocactus Link et Otto, Verh. Vereins Beford. Gartenbaues Konigl. Preuss. Staaten 3: 417. (1827), *nom. cons.* **Notae:** the recent publication of some cladograms on the genus *Melocactus* in Brazil (Taylor *et al.*, 2025: 110, 112, 115), has led to a different taxonomic approach, with the re-evaluation of the relationships within the *Melocactus azureus* clade, *M. violaceus* clade and *M. zehntneri* clade, with the recognition of a new species and some new combinations, which are presented below.

Melocactus azureus Buining et Brederoo **subsp. pachyacanthus** (Buining et Brederoo) Guiggi **comb. et stat. nov.** *Basionymus:* *Melocactus pachyacanthus* Buining et Brederoo, in Kakt. and. Sukk. 27(1): 1 (1975). **Typus:** Brazil, Bahia, L.Horst 407 [U, *holo.* not found, *fide* Taylor 1991: 37]. *Lectotypus designatus* by Taylor (1991: 37): colour icon in Buining et Brederoo, *loc. cit.* (1971); **Distributio:** NE Brazil. **Notae:** a northern geographic subspecies distinguished than subsp. *azureus* by its larger perianth segments (to 2.2 vs. to 1.7 mm wide), *cephalium* densely bristly (vs. densely woolly), larger fruit (to 9.5 vs. to 6 mm in diameter) (*cfr.* Taylor, 1991: 21, 36-37, 40). The phylogenetic cladogram focused on the *Melocactus azureus* clade confirms this taxonomical change and the closer relationships between the two analysed taxa (*cfr.* Taylor *et al.*, 2025: 110).

Melocactus pseudoviolaceus Guiggi **spec. nov.** **Diagnosis:** differs from the *Melocactus violaceus* Pfeiffer complex (*M. violaceus* subsp. *violaceus*, *M. violaceus* subsp. *margaritaceus* N.P.Taylor, *cfr.* Taylor *et al.*, 2025: 115) for its restricted inland distribution in Bahia, Campo rupestre, on quartz substrate, at 450-860 m a.s.l. (vs. almost exclusively coastal, with a wider distribution from Río de Janeiro to Rio Grande do Norte, Coastal Restinga, on pure white sand, normally at < 10 m a.s.l.); lesser number of ribs, 8-10 (vs. 8-15); lesser number of spines, 5-6 (vs. 5-12). **Typus:** Brazil, Bahia, Rui Barbosa, 1964, F.Ritter 1209a [U, *holo.*]. *Synonymi:* *Melocactus macrodiscus* var. *minor* F.Ritter, Kakt. Südamerika 1: 133 (1979); *Melocactus violaceus* subsp. *ritteri* N.P.Taylor, in *Bradleya* 9: 57 (1993). **Etimologia:** from the Greek *pseudo* “false” referred to the apparent identification with *Melocactus violaceus*. **Distributio:** NE Brazil. **Notae:** the phylogenetic cladogram focused on the *Melocactus violaceus* clade supports the distinction of this taxon from the *M. violaceus* complex (*cfr.* Taylor *et al.*, 2025: 115). As discussed by Taylor (1991: 57, 2025: 116) this inland taxon is morphologically, ecologically and geographically (*cfr.* Taylor, 1991: 48) distinguishable from the coastal complex of *Melocactus violaceus*.

Melocactus zehntneri (Britton et Rose) Luetzelburg **subsp. concinnus** (Buining et Brederoo) Guiggi **comb. et stat. nov.** *Basionymus:* *Melocactus concinnus* Buining et Brederoo, in Kakt. and. Sukk. 23(1): 5 (1972). **Typus:** Brazil, Bahia, L.Horst 214 [U, *holo.*]. *Synonymi:* *Melocactus pruinosus* var. *concinnus* (Buining et Brederoo) P.J.Braun, in *Bradleya* 6: 95 (1988); *Melocactus zehntneri* subsp. *robustispinus* (Buining et Brederoo) P.J. Braun, in *Bradleya* 6: 98 (1988). **Distributio:** NE Brazil. **Notae:** a smaller identified subspecies than subsp. *zehntneri*, characterised by its reduced stem (to 12 x to 16 vs. to 48 x to 25 cm), lesser number of ribs (to 12 vs. to 22), closer areoles (to 2 vs. to 4 cm apart), lower *cephalium* (to 5.5 vs. 11 cm high), while the flowers, fruits and seeds are substantially identicals (*cfr.* Taylor, 1991: 21, 45, 52). The phylogenetic cladogram focused on the *Melocactus zehntneri* clade supports this new infra-specific status (*cfr.* Taylor *et al.*, 2025: 112).

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- Taylor, N.P., M.C. Telhe, G. Olsthoorn, M. Lowry, F. de Oliveira Pereira, and D.C. Zappi. 2025. A taxonomic update for *Melocactus* in Eastern Brazil. *Bradleya*. 43: 99-119.

New records of naturalized *Cactaceae* from Liguria region (NW Italy)

OPUNTIOIDEAE K. Schumann in Martius *et al.*, Fl. Brasiliensis, 4(2): 194. 1890.

Cylindropuntia (Engelmann) F.M. Knuth, Nye kaktusbog: 35, 102. 1930.

Cylindropuntia tunicata (Lehmann) F.M. Knuth, Nye kaktusbog: 35, 132. 1930.

+ **LIG/NAT.**

DATI COROLOGICI ORIGINALI. LIG: Bordighera (IM), lungo la strada sotto il Santuario di Montenero, su blocchi rocciosi inclinati, in associazione con *Opuntia ficus-indica* (Linnaeus) Miller, 43°47'21"N 07°41'01"E, esposizione SO, ca. 110 m s.l.m., 6 Lug. 2023, *legit et determinavit* A. Guiggi LIG11 [HMGBH].

Opuntia Miller, Gard. Dict. Abr. ed. 4. 1754.

Opuntia phaeacantha Engelmann, in Mem. Amer. Acad. Arts, n.s., 4: 51. 1849.

+ **LIG/NAT.**

DATI COROLOGICI ORIGINALI. LIG: Moneglia (GE), a ponente del paese, promontorio di Punta Sant'Elmo, su pendii terrosi e rocciosi a strapiombo sul mare, in associazione con *Opuntia stricta* (Haworth) Haworth, 44°14'22"N 09°29'08"E, esposizione S, SE, ca. 10 m s.l.m., 6 Lug. 2023, *legit et determinavit* A. Guiggi LIG10 [HMGBH].

Opuntia stricta (Haworth) Haworth, Syn. Pl. Succ. 191. 1812.

+ **LIG/NAT.**

DATI COROLOGICI ORIGINALI. LIG: Moneglia (GE), a levante del paese, dopo la prima galleria del Castello di Villafranca, su una rupe rocciosa e sassosa fronte mare, 44°14'08"N 09°29'40"E, esposizione S, ca. 5 m s.l.m., 6 Lug. 2023, *legit et determinavit* A. Guiggi LIG9 [HMGBH]; Moneglia (GE), a ponente del paese, promontorio di Punta Sant'Elmo, su pendii terrosi e rocciosi, in associazione con *Opuntia phaeacantha* Engelmann, 44°14'22"N 09°29'09"E, esposizione S, SE, ca. 10 m s.l.m., 6 Lug. 2023, *determinavit* A. Guiggi.

Bibliographia

Guiggi, A. 2014. *Repertorium Cactorum Italicum*. *Cactology*. 4: 4-20.

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Nomenclatural novelties proposed in this supplementum

Arrojadoa multiflora subsp. *luetzelburgioides* (N.P.Taylor et Zappi) Guiggi *comb. et stat. nov.*
Melocactus azureus subsp. *pachyacanthus* (Buining et Brederoo) Guiggi *comb. et stat. nov.*
Melocactus pseudoviolaceus Guiggi *spec. nov.*
Melocactus zehntneri subsp. *concinus* (Buining et Brederoo) Guiggi *comb. et stat. nov.*
Pierrebraunia bahiensis subsp. *minutiflora* (Gonzaga et Oliveira-Pereira) Guiggi *comb. nov.*
Uebelmannia pectinifera subsp. *nuda* (Zappi et N.P.Taylor) Guiggi *comb. et stat. nov.*
Xiquexique gounellei f. *braunii* (Esteves) Guiggi *stat. nov.*