

Nomenclatural adjustments in *Thelocactus* and *Turbincarpus*

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To complete and standardize the treatment of the species belonging to the genera *Thelocactus* and *Turbincarpus* we submit a new description and some combinations. These adjustments concern some varieties sufficiently distinct to deserve the same rank of other taxa already combined.

Thelocactus leucacanthus* subsp. *schmollii (Werdermann) Mosco & Zanovello **stat. nov.** **Basionym:** *Thelocactus leucacanthus* var. *schmollii* Werdermann, Kakt. and. Pfl. 3: t. 160 (1939). Syn.: *T. sanchezmejoradae* Meyrán, Cact. Suc. Mex. 3: 77 (1958); *T. leucacanthus* var. *sanchezmejoradae* (Meyrán) Backeberg, Die Cact. 5: 2817 (1961).

Thelocactus rinconensis* subsp. *freudenbergeri (Haas) Mosco & Zanovello **stat. nov.** **Basionym:** *Thelocactus rinconensis* var. *freudenbergeri* Haas, Kakt. and. Sukk. 43(5): 96–98 (1992).

Turbincarpus* × *mombergeri Ríha. This is a natural hybrid between *T. laui* Glass & Foster and *T. pseudopectinatus* (Backeberg) Glass & Foster, as listed in CCC2.

Turbincarpus schmiedickeanus* subsp. *andersonii Mosco **subsp. nov.** a *Turbincarpus schmiedickeanus* caule applanato, spinis paucioribus (1, raro 2) brevioribusque (2-9 mm), segmentis interioribus perianthii latioribus et ad apicem obtusis differt. **Holotypus:** Mexico, San Luis Potosí, 19.5 km west of junction of highway 80 and 101, E.F. Anderson 4932 (US). Syn.: *Turbincarpus panarottoi* Ríha nom. inval. (Art. 37.3 and Art. 37.4).

In the description given by Ríha any reference to the collector, collecting number and collecting date is missing as it is also any direct reference to the type, lacking the words *typus*, *holotypus* or any equivalent. Moreover the type locality given is erroneous. Anderson first collected this entity, but misidentified it as *T. schmiedickeanus* subsp. *klinkerianus* (Backeberg & H.J. Jacobsen) N.P. Taylor, from which it differs in having magenta flowers and a winter flowering period.

References

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- (1996). *Turbincarpus mombergeri* Ríha - nový druh státu SLP, Mexico. *Kaktusy* 32: 54–58.