

Supplementary Materials: Genetics and Conservation of Plant Species of Extremely Narrow Geographic Range

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Table S1. Comparison of the genetic diversity levels (heterozygosity and allele richness) of *M. albiflora* and other *Mammillaria* species (in parenthesis the number of the reference cited in literature). N = total of the sampled individuals; n = number of subpopulations sampled; L = number of polymorphic loci sampled. H_O = the observed heterozygosity for the species level (the mean based on the total of the subpopulations analyzed and in the total of the loci used); H_E = the expected heterozygosity for the species, N_T = the total number of alleles accounted in all loci sampled, N_A = the mean number of alleles by locus.

Species (Source)	N:n:L	H _O (H _E)	N _T (N _A)
1. <i>M. albiflora</i> (this study)	96:4:10	0.33 (0.43)	51 (5)
2. <i>M. crucigera</i> [1]	171:6:8	0.54 (0.76)	158 (19.75)
3. <i>M. hernandezii</i> [2]	24:2:5	0.58 (0.65)	33 (5.2)
4. <i>M. huitzilopochtli</i> [3]	106:5:5	0.55 (0.80)	107 (11.8)
5. <i>M. kraehenbuehlii</i> [2]	102:5:5	0.62 (0.75)	89 (7)
6. <i>M. napina</i> [2]	99:5:5	0.60 (0.71)	83 (8)
7. <i>M. rekoi</i> [4]	40:2:5	0.59 (0.86)	29 (11.75)
8. <i>M. solisioides</i> [5]	100:5:5	0.75 (0.77)	62 (6)
9. <i>M. supertexta</i> [3]	148:5:5	0.69 (0.76)	75 (9.3)
10. <i>M. zephyranthoides</i> [6]	40:2:5	0.72 (0.67)	30 (5)

References

- Solórzano, S.; Dávila, P. Identification of conservation units of *Mammillaria crucigera* (Cactaceae): Perspectives for the conservation of rare species. *Plant Ecol. Divers.* **2015**, *8*, 559–569.
- Solórzano, S.; Téllez, O.; Álvarez-Espino, R.; Dávila, P. Unidades genéticas para la conservación de *Mammillaria* (Cactaceae). *Fitotecnica* **2016**, under review. (In Spanish)
- Solórzano, S.; Cuevas-Alducin, P.D.; Gómez-García, V.; Dávila, P. Genetic diversity and conservation of *Mammillaria huitzilopochtli* and *M. supertexta*, two threatened species endemic of the semiarid region of central Mexico. *Rev. Mex. Biodivers.* **2014**, *85*, 565–575.
- Quezada-Ramírez, S. Análisis de la Diversidad Genética de *Mammillaria rekoi* Britton & Rose (Cactaceae: Especie Endémica del Estado de Guanajuato, México. Bachelor Thesis, Universidad Nacional Autónoma de México, Mexico City, Mexico, 1 April 2016. (In Spanish)
- Macías-Arrastio, F.F. Diversidad y Estructura Genética Poblacional de *Mammillaria solisioides* Backeb. Especie Endémica de la Mixteca de Oaxaca y Puebla. (Bachelor Thesis), Universidad Nacional Autónoma de México, Mexico City, Mexico, 21 March 2014. (In Spanish).
- López-Ortiz, N.M. Diversidad y Estructura Genética Poblacional de *Mammillaria zephyranthoides* (Cactaceae): Una Especie Endémica de México. Bachelor Thesis, Universidad Nacional Autónoma de México, Mexico City, Mexico, 24 January 2014. (In Spanish)