Species Datasheet

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Datasheet No. G-002.007.003
(family.genus.species)

1.Taxon:

Species: *Zamia furfuracea* L.f.
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file

2. Synonyms:*Palmapumila* Mill., *Palmifoliumfurfuraceum* (L.f. ex Aiton) Kuntze, *Zamiacrassifolia* T.Moore, *Z.furfuracea* var. *trewii* A.DC., *Z.gutierrezii* Sauvalle, *Z.media* var. *gutierrezii* (Sauvalle) J.Schust., *Z.vestita* Van Houtte

3. Systematic Position:

Christenhusz*et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: CycadidaePax
- Order: Cycadales Pers.
- Family:Zamiaceae Horan.
- Genus:*Zamia* L.
- Species: *Z. furfuracea* L.f.

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Cycadaceae Pers.
Tribus: Encephalarteae
Genus: *Zamia* L.
Species:*Z.furfuracea* L.f.

4.Distribution:

Global: Native to Southeastern Veracruz state in eastern Mexico

India: Uttar Pradesh

5.Indigenous/Exotic/Endemic;Cultivated/Wild:

6.Threat Status:

IUCN: Endangered

BSI:

7.Habit and Habitat: Small cycad, grows in well drained soils, this species grows in areas varying from generally arid thorn scrub to sandy soils and in limestone sea cliffs.

8.Life Form: Phanerophytes

9.Economic Importance: Horticulture

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (36.30 pg) [16]	Flow cytometry [16]

12.Basic chromosome number(s):x=9[2, 4, 5, 7, 8, 14, 15]

13. Zygotic chromosome number(s):2n=18[2, 5, 7, 8, 14, 15]

14. Gametic chromosome number(s):n=

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidy level: Diploid[2, 5, 7, 8, 14, 15]

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo):

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:2, 5, 7, 8, 14, 15

Karyotype median, submedian, subterminal and terminal [2, 5, 7, 8, 14, 15]

Chromosome size Large[2, 5, 7, 8, 14, 15]

NOR chromosome(s) 14 [15]

Degree of asymmetry Moderately asymmetrical[2, 5, 7, 8, 14, 15]

Image file

22. Banding pattern(s): CMA+, DAPI+ [14]

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization:45S rDNA, 5S rDNA[15] , telomere sequences[2, 5]

Image file

24.Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26.Chromosome associations:

Female meiosis

Male meiosis

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):