Species Datasheet

Datasheet No. G-002.007.004
(family.genus.species)

1.Taxon:

Species:*Zamia pumila* L.
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file

2. Synonyms:*Encephalartospumilus* (L.) Sweet, *Palmifoliumdebile* (Aiton) Kuntze, *P.integrifolium* (L.f. ex Aiton) Kuntze, *P.pumilum* (L.) Kuntze, *Zamiaallison-armourii* Millsp., *Z.concinna* Regel, *Z.cylindrica* Regel, *Z.debilis* L.f. ex Aiton, *Z.dentata* Voigt, *Z.humilis* Salisb., *Z.integrifolia* L.f. ex Aiton, *Z.laeta* Salisb., *Z.latifoliolata* Prenleloup, *Z.media* var. *portoricensis* (Urb.) J.Schust., *Z.portoricensis* Urb.

3.Systematic Position:

Christenhusz*et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers. ex Bercht. & J.Presl
- Family: Zamiaceae Horan.
- Genus: *Zamia* L.
- Species: *Z. pumila* L.

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

4.Distribution:

Global: Central Cuba, Southern Puerto Rico, and Hispaniola

India: Planted at Botanical Garden, NBRI, Lucknow and University of Allahabad, Uttar Pradesh

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

6.Threat Status:

IUCN: Near Threatened

BSI:

7.Habit and Habitat: Shrubs and grow in very well drained soils. This includes limestone soils and even sandy beach strand soils

8.Life Form: Phanerophytes

9.Economic Importance: Horticulture

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (38.20 pg) [16]	Flow cytometry [16]

12.Basic chromosome number(s):x=8[1, 4, 7, 9, 14, 15]

13. Zygotic chromosome number(s):2n=16 [1, 7, 9, 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[1, 7, 9, 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: 1, 7, 9, 14, 15

KaryotypeMostly median and submedian[1, 7, 9, 14, 15]

Chromosome size Large[1, 7, 9, 14, 15]

NOR chromosome(s) 6 [15]

Degree of asymmetry Symmetrical[1, 7, 9, 14, 15]

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

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

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

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.):