

Species Datasheet

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Datasheet No. G-002.002.002
(family.genus.species)

1.Taxon:

Species: *Dioon spinulosum* Dyer ex Eichl.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:

3.Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers.
- Family: Zamiaceae Horan.
- Genus: *Dioon* Lindl.
- Species: *D.spinulosum* Dyer ex Eichl.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Cycadaceae Pers.
Tribus: Encephalarteae
Genus: *Dioon* Lindl.
Species: *D.spinulosum* Dyer ex Eichl.

4.Distribution:

Global: Oaxaca and Veracruz states of Mexico

India: Planted at Botanical Garden, NBRI, Lucknow, Uttar Pradesh.

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

6.Threat Status:

IUCN: Endangered

BSI:

7.Habit and Habitat: Largest cycad, lowland tropical evergreen rainforest on limestone hills and cliffs.

8.Life Form: Phanerophytes

9.Economic Importance:Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=9^{1, 3, 4, 5}$

13. Zygotic chromosome number(s): $2n=18^{3, 4, 5}$

14. Gametic chromosome number(s): $n=$

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

Image file

16.Ploidy level:Diploid

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:^{3, 4, 5}

Karyotype Mostly median subterminal and a pair of terminal chromosomes ^{3, 4, 5}

Chromosome size Large ^{3, 4, 5}

NOR chromosome(s)

Degree of asymmetry Moderately asymmetrical ^{3, 4, 5}

Image file

22. Banding pattern(s):

Image file

23.Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization:

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; Translocation etc.):