

Final Species Datasheet

Datasheet No. G-001.001.003
(family.genus.species)

1.Taxon:

Species: *Cycas pectinata* Buch.-Ham.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Cycas circinalis* var. *pectinata* (Buch.-Ham.) J.Schust., *C. circinalis* var. *pectinata* Schuster, *C. dilatata* Griff., *C. jenkinsiana* Griff.

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers.
- Family: Cycadaceae Pers.
- Genus: *Cycas* L.
- Species: *C. pectinata* Buch.-Ham.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Cycadaceae Pers.

Tribus: Cycadeae Colla

Genus: *Cycas* L.

Species: *C. pectinata* Buch.-Ham.

4.Distribution:

Global: Hill regions of northeastern India, Bhutan, Bangladesh, Myanmar, Nepal, Thailand

India: Hills of Northeast India

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

6.ThreatStatus:

IUCN: Vulnerable

BSI:

7.Habit and Habitat: Evergreen Shrub, *C. pectinata* is a plant of medium to higher elevations and moist conditions.

8.LifeForm:Phanerophytes

9.EconomicImportance:The Hill tribes in Assam, India eat the seeds and emergent leaves are used as a vegetable. The fleshy stem is pounded and used as a hair wash.

10. Probable Progenitor of:

11.DNA

C-value

Methodology

12.Basic chromosome number(s): $x=11^{1, 6}$

13. Zygotic chromosome number(s): $2n=22^1$ (root tip mitosis)

14. Gametic chromosome number(s): $n=11^1$ (pollen mitosis)

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):Sex chromosomes ¹

Image file

16.Ploidy level:Diploid¹

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

Karyotype :Female plants, median,submedian or subterminal, 3rd pair satellite, male plants, 3rd pair with satellite only on one of the homologue¹

Chromosome sizeLarge¹

NOR chromosome(s)2¹ , 1¹

Degree of asymmetryAsymmetrical¹

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.Genomicinsituhybridization:

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

DNA level¹²

Image file

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