

Final Species Datasheet

Datasheet No. G-001.001.006
(Family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cycassiamensis* Miq.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Cycas baguanheensis* L.K.Fu & S.Z.Cheng, *C. immersa* Craib, *C. intermedia* B.S.Williams, *C. panzhihuaensis* L.Zhou & S.Y.Yang, *C. siamensis* subsp. *siamensis*, *Epicycassiamensis* (Miq.) de Laub.

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. siamensis* Miq.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Cycadaceae Pers.

Tribus: Cycadeae Colla

Genus: *Cycas* L.

Species: *C. siamensis* Miq.

4. Distribution:

Global: Cochin-China, Cambodia, Myanmar, Thailand, Vietnam, Yunnan

India: Cultivated in Garden.

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

6. Threat Status:

IUCN: Vulnerable

BSI:

7.Habit and Habitat:Treelike, this species occurs in seasonally dry monsoon forests with a warm, humid and rainy season, followed by a hot season of drought.

8.LifeForm:Phanerophytes

9.EconomicImportance:Cultivated in Garden

10. Probable Progenitor of:

11.DNA

C-value

Methodology

12.Basic chromosome number(s): $x=11$ 6, 9, 10, 13

13. Zygotic chromosome number(s): $2n=22$ 9, 10, 13

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

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes): Sex chromosomes 13

Image file

16.Ploidylevel:Diploid 9, 10, 13

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: 9, 10, 13

Karyotype Median, submedian, terminal 9, 10, 13

Chromosome size

NOR chromosome(s) 7 (male) 13, 2 (female) 13

Degree of asymmetry Fairly asymmetrical 9, 10, 13

Image file

22. Banding pattern(s):CMA+, DAPI+ 9

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):