

Final Species Datasheet

Datasheet No. G-001.001.001

DBT- Network

Programme

(Family.genus.species)

1.Taxon:

Species:*Cycas beddomei* Dyer

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:*Cycas circinalis* var. *beddomei* (Dyer) J.Schust., *C.pluma* W.Bull

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. beddomei* Dyer

**Bentham and Hooker
(1862)**

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Cycadaceae Pers.

Tribus: Cycadeae Colla

Genus: *Cycas* L.

Species: *C. beddomei* Dyer

4.Distribution:**Global:**India**India:** Andhra Pradesh,Kerala,Tamil Nadu,**5.Indigenous/Exotic/Endemic;Cultivated/Wild:**Endemic**6.ThreatStatus:****IUCN:** Endangered**BSI:**

7.Habit and Habitat:Small shrub with 40 cm long stem.This is characteristically a species of dry, open hill slopes. It grows in an area with annual rainfall of 570-1,230 mm. Plants grow on skeletal soils, mainly in dry deciduous mixed type forest with patches of moist deciduous forest.

8.Life Form:Phanerophytes**9.Economic Importance:****10. Probable Progenitor of:****11.DNA****C-value****Methodology****12.Basic chromosome number(s):** $x=116, 16$ **13. Zygotic chromosome number(s):** $2n=22 \ 16$ **14. Gametic chromosome number(s):** $n=$

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

Image file

16.Ploidy level:Diploid16

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: 16

Karyotype 5 pairs subterminal rest median submedian16

Chromosome size Large16

NOR chromosome(s)

Degree of asymmetry Fairly asymmetrical16

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):