

Species Datasheet

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Datasheet No. G-002.003.002
(family.genus.species)

1.Taxon:

Species:[*Encephalartos villosus* Lem.](#)

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:*Encephalartos villosus* f. *intermedius*Henn.

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers.
- Family: Zamiaceae Horan.
- Genus: *Encephalartos* Lehm.
- Species: *E.villosus* Lem.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Cycadaceae Pers.

Tribus: Encephalarteae

Genus: *Encephalartos* Lehm.

Species: *E.villosus* Lem.

4.Distribution:

Global: South Africa

India: Maharashtra, Tamil Nadu, Uttar Pradesh

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: Largely underground trunk,medium-sized, clumping cycad, This species typically occurs as an understorey plant in sub-tropical coastal forest and in scrub, but populations also occur in more temperate areas.

8.Life Form:Phanerophytes

9.Economic Importance:A good landscaping plant

10. Probable Progenitor of:

11.DNA

C-value 2C (pg): 42.17 ⁴

Methodology Feulgen microdensitometry⁴

12.Basic chromosome number(s): $x=9^{2, 3,4,5}$

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 ^{3, 4, 5}

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

Karyotype Mostly subterminal and median³

Chromosome size Large³

NOR chromosome(s)

Degree of asymmetry Asymmetrical³

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 meiosis⁹II Merchant 1968

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.):