

Species Datasheet

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Datasheet No. G-002.003.001
(family.genus.species)

1.Taxon:

Species: *Encephalartos hildebrandtii* A.Braun & Bouche

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Encephalartos hildebrandtii* var. *hildebrandtii*, *E. villosus* f. *hildebrandtii* (A.Braun & Bouche) Henn., *E. villosus* var. *nobilis*

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. hildebrandtii* A.Braun & Bouche

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Cycadaceae Pers.
Tribus: Encephalarteae
Genus: *Encephalartos* Lehm.
Species: *E. hildebrandtii* A.Braun & Bouche

4.Distribution:

Global: Coastal and near-coastal districts of Kenya and Tanzania

India: Maharashtra

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

6.Threat Status:

IUCN: Near Threatened

BSI:

7.Habit and Habitat: Mainly found in coastal evergreen bushland and dry lowland forest, in red loams and sandy soils among grass and coral rocks.

8.Life Form:Phanerophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

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

13. Zygotic chromosome number(s): $2n=18^3$, 27 (Sporadic)¹

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

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

Image file

16.Ploidy level:Diploid³, Triploid (sporadic)¹

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 Symmetrical³

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.):