Species Datasheet

Datasheet No. G-02.005.001 DBT- Network Programme
(Family.genus.species)

1.Taxon:
Species:*Microcycascalocoma*(Miq.) A.DC.
Subspecies:
Variety:
Cultivar
Hybrid
Image file

2. Synonyms:*Zamiacalocoma*Miq.

3.Systematic Position:
Christenhusz*et al.* (2011)
- Class: Equisetopsida C. Agardh
- Subclass: CycadidaePax
- Order: Cycadales Pers. ex Bercht. &J.Presl
- Family: Zamiaceae Horan.
- Genus: *Microcycas*(Miq.) A. DC.
- Species:*M.calocoma*(Miq.) A.DC.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Cycadaceae Pers.
Tribus: Encephalarteae
Genus: *Microcycas*(Miq.) A. DC.
Species: *M.calocoma* (Miq.) A.DC.

4.Distribution:
Global: Endemic to Western Cuba
India: Planted at Botanical Garden, NBRI, Lucknow

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

6.Threat Status:
IUCN: Critically Endangered
BSI:

7.Habit and Habitat: Shrubs,the habitats vary from grasslands to, more commonly, pine or semi-deciduous forests and conditions range from full sun to deep shade.

8.LifeForm: Phanerophytes

9.EconomicImportance: This plant may be cultivated as an indoor plant in temperate countries.

10. Probable Progenitor of:

11.DNA
C-value2C (41.20 pg)5 **Methodology**Flow cytometry5

12.Basic chromosome number(s):x=13 1, 2, 3, 4

13. Zygotic chromosome number(s):2n=262,3,4

14. Gametic chromosome number(s):n=

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

16.Ploidy level: Diploid2, 3, 4
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:2, 3, 4
Karyotypemedian, submedian, subterminal and terminal2, 3, 4
Chromosome size Large2, 3, 4
NOR chromosome(s)22
Degree of asymmetry Asymmetrical2, 3, 4
Image file

22. Banding pattern(s):CMA+, DAPI+bands2
Image file

23.Physical mapping of chromosomes:rDNA
In situ hybridization
Image file
Fluorescent in situ hybridization:rDNA2
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;Translocationsetc.):