

Final Species Datasheet

Datasheet No. G-002.001.002
(family.genus.species)

1.Taxon:

Species:*Boweniaspectabilis*Hook.ex Hook. f.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms:

3.Systematic Position:

Christenhusz *et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers.
- Family:Zamiaceae Horan.
- Genus:*Bowenia*Hook. exHook.f.
- Species: *B. spectabilis* Hook. ex Hook. f.

Bentham and Hooker (1862)

Kingdom: Plantae

Division:Phanerogamia

Class: Gymnospermeae

Ordo: Cycadaceae Pers.

Tribus:Encephalarteae

Genus: *Bowenia*Hook. exHook.f.

Species:*B.spectabilis*Hook.ex Hook. f.

4.Distribution:

Global: Endemic to Queensland, Australia

India:Orissa

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

6.Threat Status:

IUCN: Least Concern

BSI:

7.Habit and Habitat:Evergreen cycad, Scattered in open situations in and around rainforest in north-eastern Queensland, plants grow in rainforest and their margins at low to moderate elevations. In adjoining tall wet eucalypt forest ecotones and subtropical or tropical moist lowland forests

8.Life Form:Phanerophytes

9.Economic Importance:The root was used by the Aborigines of Australia as a food, and the plant is occasionally grown as an ornamental.

10. Probable Progenitor of:

11.DNA

C-value2C (41.40 pg)⁹**Methodology**Flow cytometry⁹

12.Basic chromosome number(s): $x=9$ ^{1, 2,3,4,}

13. Zygotic chromosome number(s): $2n=18$ ^{2, 3,6}

14. Gametic chromosome number(s):

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

Image file

16.Ploidy level:Diploid^{2, 3,6}

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}

Karyotype Median, submedian and subterminal^{2, 3}

Chromosome sizeLarge^{2, 3}

NOR chromosome(s)^{2, 3}

Degree of asymmetry Moderately asymmetrical^{2, 3}

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):