Species Datasheet

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Datasheet No. G-008.002.003
(family.genus.species)

1.Taxon:

Species: *Araucaria columnaris* (J.R..Forst.)Hook.
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:*Araucaria cookii* R.Br. ex Endl.,*A. excelsa* (Lamb.) R.Br, *Araucaria intermedia* R.Br. ex Vieill.,*Columbea excelsa* (Lamb.) Spreng.,*Cupressus columnaris* G.Forst., *Dombeya excelsa* Lamb., *Eutacta cookii* Carriere, *E. excelsa* (Lamb.) Link, *E. humilis* Carriere, *E. minor* Carriere, *Eutassa columnaris* (G.Forst.) de Laub.

3.Systematic Position:
Christenhusz*et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass: PinidaeCronquist
- Order: AraucarialesGorozh.,
- Family:Araucariaceae Henkel &W.Hochst.
- Genus:*Araucaria*Juss.
- Species: *A. columnaris*(J.R..Forst.) Hook.

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus:Araucarieae D. Don
Genus: *Araucaria* Juss.
Species: *A. columnaris*(J.R..Forst.)Hook.

4.Distribution:

Global: Native of New Caledonia, Africa,Southeast Asia

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: Large evergreen tree (60 m tall), coastal areas

8.LifeForm: Phanerophytes

9.Economic Importance:A Popular landscape tree

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (31.30 pg) [8]	Flow cytometry[8]
2C19.14 [7]	Feulgen densitometry[7]

12.Basic chromosome number(s):x=13[2, 4, 5]

13. Zygotic chromosome number(s):2n=26[2, 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[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:[4, 5]

Karyotype Mostly median and submedian[4, 5]

Chromosome size Large[4, 5]

NOR chromosome(s)

Degree of asymmetry Symmetrical[4, 5]

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;Translocationsetc.):