Species Datasheet

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Datasheet No. G-011.002.002
(family.genus.species)

1.Taxon:

Species: *Callitriscolumellaris*F.Muell.
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:*Callitris arenosa*A.Cunn. ex R.T.Baker&H.G.Sm., *C. columellaris* subsp. *campestris* (Silba) Silba, *C. columellaris* var. *campestris* Silba, *C. columellaris* f. *flauca* F.M.Bailey,*C. columellaris* f. *glauca* F.M.Bailey, *C. columellaris* subsp. *intratropica* (R.T.Baker&H.G.Sm.)Silba, *C. columellaris* var. *intratropica* (R.T.Baker&H.G.Sm.)Silba, *C. columellaris* var. *microcarpa* (Benth.)Govaerts, *C. glauca* R.Br. ex R.T.Baker&H.G.Sm., *C.glaucophylla* J.Thomps.&L.A.S.Johnson, *C. hugelii* (Carriere) Franco, *C. intermedia* R.T.Baker&H.G.Sm., *C. intratropica* R.T.Baker&H.G.Sm., *C. robusta* var. *intratropica* (R.T.Baker&H.G.Sm.) Ewart&O.B.Davies, *C. robusta* var. *microcarpa* (Benth.)F.M.Bailey, *Frenela columellaris* (F.Muell.)Parl., *F. hugelii* Carriere, *F. moorei* Parl., *F. robusta* A. Cunn.exMirb., *F. robusta* var. *microcarpa* Benth., *F. verrucosa* var. *laevis* C.Moore, *Octoclinis backhousei* W.Hill, *Widdringtonia equisetiformis* Mast.

3.Systematic Position:

Christenhusz*et al.* (2011)

- Class: Equisetopsida C. Agardh
- Subclass:PinidaeCronquist
- Order: Cupressales Link
- Family:Cupressaceae Gray
- Genus:*Callitris*Vent.
- Species: *C. columellaris*F.Muell.

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: Coniferae
Tribus:Cupressineae
Genus: *Callitris*Vent.
Species: *C.columellaris*F.Muell.

4.Distribution:

Global: Eastern Australia

India:

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

6.Threat Status:

IUCN: Least concern

BSI:

7.Habit and Habitat: A shrub or slow growing tree 4-12m high. *C. columellaris* occurs in a wide range of semi-arid and mesic habitats throughout mainland Australia. It occurs in coastal and inland areas, at sea level and in mountainous areas up to 1,300 m.

8.LifeForm: Phanerophytes

9.Economic Importance: Widely used for fencing and construction. Also used for dendroclimatological studies.

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (16.53pg)[7]	Feulgenmicrodensitometry[7]

12.Basic chromosome number(s):x=11[3, 5, 6, 7]

13. Zygotic chromosome number(s):2n=22[5, 6, 7]

14. Gametic chromosome number(s):n=

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

Image file

16.Ploidy level: Diploid[5, 6, 7]

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:[5, 6]

Karyotype Median and submedian[5, 6]

Chromosome size Large[5, 6]

NOR chromosome(s) 2[5, 6]

Degree of asymmetry Symmetrical[5, 6]

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.):