

Species Datasheet

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Datasheet No. G-011.011.001
(family.genus.species)

1.Taxon:

Species: *Tetraclinis articulata* (Vahl) Mast.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Callitris articulata* (Vahl) H.Karst., *C. articulata* (Vahl) Murb., *C. macrostachya* Steud., *C. quadrivalvis* Rich. & A.Rich., *C. triquetra* Loudon, *Cupressus articulata* (Vahl) J.Forbes, *C. triquetra* Jacques, *Juniperus cunninghamii* Carriere, *Thuja articulata* Vahl,

3. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family: Cupressaceae Gray
- Genus: *Tetraclinis* Mast.
- Species: *T. articulata* (Vahl) Mast.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Coniferae

4. Distribution:

Global: Endemic to western Mediterranean region, Native to northwestern Africa, in the Atlas Mountains of Morocco, Algeria & Tunisia, Morocco, Spain

India: Uttarakhand

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

6. Threat Status:

IUCN: Least Concern

BSI:

7.Habit and Habitat:Evergreen tree (6-15 m tall), low altitude, hot dry subtropical climate *Tetraclinis* ranges from near sea level to 1,800 m asl.

8.LifeForm:Phanerophytes

9.Economic Importance:*Tetraclinis* has a range of uses involving its leaves, fruits, wood, resin and oil. The burls that are formed after repeated coppicing are particularly valued for craftwork.

10. Probable Progenitor of:

11.DNA

C-valueMethodolgy

2C (23.59pg) ⁴Feulgenmicrodensitometry⁴

2C (25.7 pg)⁵

Flow cytometry⁵

12.Basic chromosome number(s): $x=11$ ^{1,2, 3, 4}

13. Zygotic chromosome number(s): $2n=22$ ^{1, 3, 4}

14. Gametic chromosome number(s):

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes):

Image file

16.Ploidy level:Diploid^{1, 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.Somaticchromosomes:³

KaryotypeMedian and submedian³

Chromosome sizeLarge³

NOR chromosome(s)

Degree of asymmetrySymmetrical³

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.):