

Final Species Datasheet

Datasheet No. G-005.001.002
(family.genus.species)

1.Taxon:

Species: *Gnetum montanum* Markgr.
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file

2. **Synonyms:** *Gnetum edule* Kurz, *Gnetum latifolium* Parl., *Thoamontana* (Markgr.) Dowled

3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers.
- Family: Gnetaceae Blume
- Genus: *Gnetum* L.
- Species: *G. montanum* Markgr.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Gymnospermeae
Ordo: Gnetaceae Blume
Genus: *Gnetum* L.
Species: *G. montanum* Markgr.

4.Distribution:

Global: Known from northeast India, Bhutan, Nepal to southern China and Indo-China

India: Arunachal Pradesh, Assam, Bihar, Sikkim

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

6.Threat Status:

IUCN: Least Concern

BSI:

7. **Habit and Habitat:** Evergreen climber, *G. montanum* occurs in subtropical broadleaf rainforests often at river side locations, in evergreen and mixed deciduous forest in elevations often above 1,000 m. It has been found on sandy loam soil and in association with bamboo.

8. **Life Form:** Phanerophytes

9.EconomicImportance:The fibre of the bark of *G. montanum* is used to make ropes and fishing nets. The seeds are edible when fried and produce oil that is used in the kitchen. In China wine is made with the seeds. The watery sap is used as a cold drink. An antidote against poison is made from the root as well as a remedy against malaria and other tropical fevers.

10. Probable Progenitor of:

11.DNA

C-value

Methodology

12.Basic chromosome number(s): $x=22^{2,3,8}$

13. Zygotic chromosome number(s): $2n=44^{2,3,8}$

14. Gametic chromosome number(s): $n=$

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

Image file

16.Ploidylevel:Diploid^{2,3}

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

Karyotype Median, submedian, subterminal chromosomes²

Chromosome sizeMedium²

NOR chromosome(s)

Degree of asymmetryAsymmetrical²

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):