

# Final Species Datasheet

Datasheet No. G-005.001.003  
(family.genus.species)

## 1.Taxon:

Species:*Gnetumula*Brongn.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

**2. Synonyms:** *Gnetumfuniculare*Smith ex Wight, *Gnetumpyrifolium*Miq., *Gnetumscandens*Brandis, *Gnetumula*Rheede, *Thoaedulis*Willd.

## 3.Systematic Position:

**Christenhusz et al. (2011)**

- Class: Equisetopsida C. Agardh
- Subclass: CycadidaePax
- Order: Cycadales Pers.
- Family: Gnetaceae Blume
- Genus: *Gnetum*L.
- Species: *G. ula*Brongn.

## **Bentham and Hooker (1862)**

Kingdom: Plantae

Division:Phanerogamia

Class: Gymnospermeae

Ordo: GnetaceaeBlume

Genus: *Gnetum*L.

Species: *G. ula*Brongn.

## 4.Distribution:

**Global:**India,Myanmar

**India:** Southwest and Southeast India, Western Ghats, Nilgiris, hills of Coromandel coast Andaman Islands, Andhra Pradesh, Karnataka, Kerala,Maharashtra, Orissa, Tamil Nadu,

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

## 6.Threat Status:

**IUCN:** Least concern

**BSI:**

**7.Habit and Habitat:***G.ula* is a large woody climber, it has been found on trees in the hill forests of the Western Ghats,

**8.Life Form:**Phanerophytes

**9.Economic Importance:**The fruits of *G. ula* are edible,the seeds also produce an oil that can be used for medicinal purposes or for burning

**10. Probable Progenitor of:**

**11.DNA**

**C-value**2C (pg): 4.54<sup>7</sup>

**Methodology:** Feulgenmicrodensitometry<sup>7</sup>

**12.Basic chromosome number(s):** $x=22^{3,5,6,7,9}$

**13. Zygotic chromosome number(s):** $2n=44^{7,9}$

**14. Gametic chromosome number(s):** $n=22^{5,6}$

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

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**16.Ploidy level:**Diploid<sup>5,6,7,9</sup>

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:<sup>9</sup>**

**Karyotype** Mostly median, submedian<sup>9</sup>

**Chromosome size**Medium<sup>9</sup>

**NOR chromosome(s)**3 (male) 2 (female)<sup>9</sup>

**Degree of asymmetry**Symmetrical<sup>9</sup>

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:** 22 II <sup>5,6</sup>

**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):**