Final Species Datasheet

Datasheet No. G-005.001.001 DBT- Network Programme
(Family.genus.species)

1.Taxon:
Species: *Gnetum gnemon* L.
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2. Synonyms:*Gnemonovalifolia* (Poir.) Kuntze, *G.acutatum*Miq., *G. gnemon* var. *gnemon*, *G. gnemon* var.
*laurinum*Blume, *G. gnemon* var. *lucidum*Blume, *G. gnemon* var. *majusculum*Blume, *G. gnemon* var.
ovalifolium (Poir.) Blume, *G. gnemon* f. *stipitatum*Markgr.,*G. gnemon* var. *sylvestris* (Brongn.) Parl., *G.*
gnemon f. *volubile*Markgr.,*G. ovalifolium*Poir., *G. polystachyum*Reinw. exBlume, *G. silvestris*Rumph., *G.*
*silvestris*Brongn., *G. sylvestre*Brongn., *G. vinosum* Elmer

3.Systematic Position:
Christenhusz*et al.* (2011)
Class: Equisetopsida C. Agardh
Subclass: CycadidaePax
Order: Cycadales Pers.
Family: GnetaceaeBlume
Genus: *Gnetum*L.
Species: *G.gnemon*L.
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Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Gymnospermeae
Ordo: GnetaceaeBlume
Genus: *Gnetum*L.
Species: *G. gnemon*L.

4.Distribution:
Global: Native to Bangladesh, Cambodia, China, Fiji, India, Indonesia, Malaysia, Myanmar, Papua
New Guinea, Philippines, Solomon Islands, Thailand, Vanuatu, Viet Nam
India: Arunachal Pradesh, Assam, Meghalaya, TripuraNortheast India, Great Nicober Islands
5.Indigenous/Exotic/Endemic;Cultivated/Wild: Wild

6.ThreatStatus:
IUCN: Least concern
BSI:

7.Habit and Habitat: Itgrows in tropical rainforest climate with bimodal or uniform rainfall, 0-1700m

8.LifeForm: Phanerophytes

9.EconomicImportance: TheSeedsof *G. gnemon*are eaten after roasting or cocking. The orange red pulp is
removed and the seed mashed into cakes, dried and fried in oil to make a cake or biscuit. The bark yields a
strong fibredurable in sea water and therefore valued for fishing lines and nets

10. Probable Progenitor of:

11.DNA
C-value 2C (7.74pg)4
Methodology Flow cytometry4

12.Basic chromosome number(s):x=22 3,4

13. Zygotic chromosome number(s):2n=444**,** 488

14. Gametic chromosome number(s):n=

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

16.Ploidylevel: Diploid4
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:8
Karyotype median, submedian, subterminal chromosomes 8
Chromosome size: Medium8
NOR chromosome(s): 48
Degree of asymmetry: Asymmetrical8

Image file

22. Banding pattern(s):
Image file

23.Physical mapping of chromosomes:
In situ hybridization Southern blot rDNA1
Image file
Fluorescent in situ hybridization
Image file

24.Genomicin 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):