

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-018.015.004
(family.genus.species)

DBT- Networ

1.Taxon:

Species: *Monoon longifolium* (Sonn.) B.Xue & R.M.K.Saunders
Subspecies:
Variety:
Cultivar:
Hybrid

Image file

2. **Synonyms:***Guatteria longifolia* (Sonn.) Wall.,*Polyalthia longifolia* (Sonn.) Thwaites, *Unona longifolia* (Sonn.) Dunal,*Uvaria longifolia* Sonn.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Magnolids
- Order: Magnoliales Juss.
- Family: Annonaceae Juss.
- Genus:*Monoon* Miq.
- Species: *M.longifolium* (Sonn.) B.Xue & R.M.K.Saunders

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Ranales
- Ordo: Annonaceae Juss.
- Genus:*Monoon* Miq.
- Species: *M.longifolium* (Sonn.) B.Xue & R.M.K.Saunders

4.Distribution:

Global: India, Sri Lanka

India: Throughout India

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Tree;cultivated

8.Life Form:Phanerophyte

9.Economic Importance:Ornamental plant

10. Probable Progenitor of:

11.DNA

C-value

2C (2.24±0.04 pg)⁴

Methodology

Feulgen microdensitometry⁴

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=18³

14. Gametic chromosome number(s):

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

Image file

16.Ploidy level:

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:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

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; Translocations etc):