

Species Datasheet CalU+SUK-Phase I

Datasheet No. A-087.001.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Maranta leuconeura* E.Morren

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Calathea leuconeura* (É.Morren) N.E.Br., *C. massangeana* É.Morren ex L.Gentil, *Maranta depressa* É.Morren, *M. fascinator* L.Linden & Rodigas, *M. kerchoviana* É.Morren, *M. leuconeura* var. *erythronera* G.S.Bunting, *M. leuconeura* var. *kerchoviana* Petersen, *M. leuconeura* var. *leuconeura*, *M. leuconeura* var. *massangeana* É.Morren ex Planch., *M. massangeana* É.Morren

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Zingiberales Griseb.
- Family: Marantaceae R.Br.
- Genus: *Maranta* L.
- Species: *M. leuconeura* E.Morren

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Epigynae
Ordo: Scitamineae
Genus: *Maranta* L.
Species: *M. leuconeura* E.Morren

4. Distribution:

Global: India, America

India: Peninsular India, Arunachal Pradesh, Assam, Meghalaya

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herb; wet places

8. Life Form:

9. Economic Importance: Used as ornamental plant

10. Probable Progenitor of:

11. DNA

C- value

2C (1.1 pg)⁷

Methodology

Flow cytometry⁷

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=26^{5,6}$

14. Gametic chromosome number(s): $n=13^5$

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

Image file

16. Ploidy level:

Image file

17. Agameteoploidy

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy): Variation in somatic chromosome number $2n=28^6$

21. Somatic chromosomes:

Karyotype: Majority metacentric chromosomes⁶

Chromosome size: Very small to small⁶

NOR chromosome(s): 4 NOR⁶

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 (Aponixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):