

Genus Datasheet

CalU+SUK-Phase I

DatasheetNo. A-087.001
(Family.Genus)

DBT- Network Programme

1. Genus: *Maranta* L.

2. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Zingiberales Griseb.
- Family: Marantaceae R.Br.
- Genus: *Maranta* L.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Epigynae
Ordo: Scitamineae
Genus: *Maranta* L.

3. Species:

Global: 43

India: 3

4. Taxonomic riddles:

5. Distribution:

Global: Argentina, Belize, Bolivia, Brazil, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Haiti, Honduras, Leeward Island, Mexico, Nicaragua, Panamá, Paraguay, Peru, Puerto Rico, Suriname, Trinidad-Tobago, Venezuela, Venezuelan Antilles, Windward Island, Bahamas, Bangladesh, Bermuda, Cambodia, China, Cook Island, Equatorial Guinea, Florida, Gabon, Gulf of Guinea Island, Hainan, India, Jamaica, Kazan-retto, Mauritius, Netherlands Antilles, Philippines, Réunion, Samoa, Taiwan, Tonga

India: Sri Lanka, Peninsular India, Arunachal Pradesh, Assam, Meghalaya

6. Habit and Habitat: Herb or shrub

7. Economic Importance: Used as food and ornamentals

8. DNA content range:

2C (1.1 pg)⁷

4C (0.1262-0.1734 AU)¹

Methodology:

Feulgen microspectrophotometry¹

Flow cytometry⁷

9. Basic chromosome number(s): $x=4^5$; $x=6^5$

10. Zygotic chromosome number(s): $2n=8^5$; $2n=18^2$; $2n=24^5$; $2n=26^{5,6}$; $2n=33^6$; $2n=48^{1,3,4}$; $2n=52^{1,4}$

11. Gametic chromosome number(s): $n=4^5$; $n=12^5$; $n=13^5$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/ N chromosomes):

13. Ploidy level:

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Variation in sc chromosome number $2n=20^6$, $2n=22^6$, $2n=26^6$, $2n=28^6$, $2n=30^6$, $2n=33^6$, $2n=36^6$, $2n=41^6$, $2n=47^6$

16. Karyograms: ^{4,6}

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism(s) underlying evolution: Occurrence of structural and numerical somatic complement of different species in view of ineffective sexual reproduction have an important part in the origin of chromosomal biotypes and species through vegetative reproduction

21. Linkage map:

22. Any other information: Total number of species with reports = 3/3