

Species Datasheet

Datasheet No. A-028.019.002
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Sauromatum diversifolium* (Wall. ex Schott) Cusimano & Hett.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Diversiarum alpinum* (C.Y.Wu ex H.Li, Y.Shiao & S.L.Tseng) J.Murata & Ohi-Toma, *D. diversifolium* (Wall. ex Schott) J.Murata & Ohi-Toma, *Heterostalis diversifolia* (Wall. ex Schott) Schott, *H. foliolosa* Schott, *H. huegeliana* (Schott) Schott, *Typhonium alpinum* C.Y.Wu ex H.Li, Y.Shiao & S.L.Tseng, *T. austrotibeticum* H.Li, *T. diversifolium* Wall. ex Schott, *T. diversifolium* var. *huegelianum* (Schott) Engl., *T. diversifolium* var. *microspadix* Engl., *T. foliolosum* (Schott) Engl., *T. huegelianum* Schott, *T. mangkamgense* H.Li

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Sauromatum* Schott
- Species: *S. diversifolium* (Wall. ex Schott) Cusimano & Hett.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Sauromatum* Schott
Species: *S. diversifolium* (Wall. ex Schott) Cusimano & Hett.

4. Distribution:

Global: Himalaya to SC. China

India:

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Herb, open grasslands, meadows, alpine damp open ground.

8. Life Form:

9. Economic Importance:

10. Probable Progenitor of:

11. DNA

C- value**Methodology**

4C (10.36±0.08pg) ¹

Feulgen cytophotometry ¹

12. Basic chromosome number(s): x=13 ⁸

13. Zygotic chromosome number(s): 2n= 52 ^{1,8,20}

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Tetraploid ⁸

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: Majority metacentric chromosomes ¹, Majority submetacentric chromosomes ⁸

Chromosome size:

NOR chromosome(s): 10 NOR ¹

Degree of asymmetry: Symmetrical or asymmetrical ¹

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):