

Species Datasheet

Datasheet No. A-028.020.002
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Scindapsus officinalis* (Roxb.) Schott

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Monstera officinalis* (Roxb.) Schott, *Pothos officinalis* Roxb., *Scindapsus annamicus* Gagnep.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Scindapsus* Schott
- Species: *S. officinalis* (Roxb.) Schott

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Scindapsus* Schott
Species: *S. officinalis* (Roxb.) Schott

4. Distribution:

Global: Indian Subcontinent to Indo-China

India: East & North East India, Andaman & Nicobar Islands, Tropical Himalaya

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Herb, dry deciduous, dry evergreen and dry mixed lowland to hill forest

8. **Life Form:** Tuberous geophytes

9. **Economic Importance:** An Ayurvedic medicinal plant with anti-inflammatory and antihistamine properties.

10. Probable Progenitor of:

11. DNA

12. Basic chromosome number(s):**13. Zygotic chromosome number(s):** $2n=56^{2,3}$ **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):** Variant chromosome number in somatic cells showing $2n=22^3$, $2n=32^3$, $2n=48^2$, $2n=49^2$, $2n=50^2$, $2n=58^2$ **21. Somatic chromosomes:**

Karyotype: Majority metacentric chromosomes², Majority nearly metacentric chromosomes³

Chromosome size: Small to medium^{2,3}

NOR chromosome(s): 8 NOR³, 12 NOR²

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):