

Species Datasheet

Datasheet No. A-028.014.001
(family.genus.species)

DBT- Network Programme

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1. Taxon:

Species *Lasia spinosa* (L.) Thwaites

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Dracontium spinosum* L., *L. aculeata* Lour., *L. crassifolia* Engl., *L. crassifolia* f. *angustisecta* Engl., *L. crassifolia* f. *latisecta* Engl., *L. desciscens* Schott. *L. hermannii* Schott, *L. heterophylla* (Roxb.) Schott, *L. jenkinsii* Schott, *L. loureiroi* Schott, *L. roxburghii* Griff., *L. zollingeri* Schott, *Pothos heterophyllus* Roxb., *P. lasia* Roxb., *P. spinosus* Buch.-Ham. ex Wall.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Lasia* Lour.
- Species: *L. spinosa* (L.) Thwaites

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Lasia* Lour.
Species: *L. spinosa* (L.) Thwaites

4. Distribution:

Global: Tropical & Subtropical Asia

India: South to East India, Tropical Himalaya

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Herb, swamps, riverbanks, ditches, moist places in tropical and subtropical forests, sometimes cultivated along fish ponds and rice fields.

8. Life Form: Tuberous geophytes

9. Economic Importance: The young leaves are used as a vegetable. The rhizomes are used medicinally for treating tuberculosis of lymph nodes, swollen lymph nodes, stomach aches, snake and insect bites, injuries, and rheumatism.

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=24$ ¹

$2n=26$ ^{1,2,3,4,5,6,7,8}

$2n=27$ ⁷

$2n=28$ ⁸

14. Gametic chromosome number(s): $n=13$ ²

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

Image file

16. Ploidy level: Diploid ^{1,6}

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 ^{1,7,8}, Majority metacentric to submetacentric chromosomes ⁷, Majority submetacentric chromosomes ⁷

Chromosome size: Very small to small ^{6,8}, Small ¹

NOR chromosome(s): 2 NOR ^{7,8}

Degree of asymmetry: Asymmetrical ⁷, Symmetrical ¹

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22. Banding pattern(s): CMA⁺ bands ^{7,8}

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 ⁸

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc): Pollen Stainability 98% ⁶