

Species Datasheet

Datasheet No. A-028.002.008
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Alocasia odora* (Roxb.) Koch & Bouche

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Alocasia commutata* Schott, *A. tonkinensis* Engl., *Arum odoratum* Heynh., *A. odorum* (Lindl.) Roxb., *Caladium odoratissimum* K.Koch, *C. odorum* Lindl., *Colocasia odora* (Lindl.) Brongn.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Alismatales R. Br. ex Bercht. & J. Presl
- Family: Araceae Juss.
- Genus: *Alocasia* (Schott) G. Don
- Species: *A. odora* (Roxb.) Koch & Bouche

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledon
Series: Nudiflorae
Ordo: Aroideae Arn.
Genus: *Alocasia* (Schott) G. Don
Species: *A. odora* (Roxb.) Koch & Bouche

4. Distribution:

Global: Bangladesh, Cambodia, China India, Indonesia, Japan, Malaysia, Myanmar Taiwan, Thailand, Vietnam, and Sri Lanka

India: Assam

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Evergreen herb. Primary and secondary tropical rain forests, bamboo thickets, riverbanks, swamps, also on limestone.

8. Life Form: Geophytes

9. Economic Importance: The rhizomes are used for treating stomach aches, abdominal pains, cholera, and hernias, and are used externally to treat abscesses and snake and insect bites.

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s): $x=7^9$

13. Zygotic chromosome number(s): $2n=28^{2,5,11,27}$
 $2n=56^{5,9,16,27}$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Diploid²⁷

Tetraploid²⁷

Octaploid⁹

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 chromosomes¹⁶

Chromosome size: Very small¹⁶

NOR chromosome(s)

Degree of asymmetry:

Image file

22. Banding pattern(s): CMA⁺ bands¹⁶

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 ^{14,15}

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