Species Datasheet

Datasheet No. A-074.001.005
(family.genus.species)

DBT- Network Programme

-

1. Taxon

Species *Drimia polyantha* (Blatt. & McCann) Stearn
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Indurgia polyantha* (Blatt. & McCann) Speta,*Thuranthos polyanthus* (Blatt. & McCann) Speta,*Urginea polyantha* Blatt. & McCann

3. Systematic Position:

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones -
Series: Coronarieae
Ordo: Liliaceae Juss.
Genus: *Drimia* Jacq.
Species: *D. polyantha* (Blatt. & McCann) Stearn

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Asparagaceae Juss.
- Subfamily: Scilloideae Burnett
- Genus: *Drimia* Jacq.
- Species: *D. polyantha* (Blatt. & McCann) Stearn

4. Distribution:

Global: India

India: Eastern and Western Ghats, Gujarat, Karnataka, Maharashtra, Tamil Nadu.

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Scapigerous bulbous herb and growing on plateaus or rocky hill slopes or roadsides.

8. Life Form: Bulbous geophytes.

9. Economic Importance: Bulbs have medicinal and pharmacological properties

10. Probable Progenitor of:

11. DNA

C- value	Methodology
2C (20.41 pg) [2]	Flow Cytometry [2]

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n= 20 [2, 15, 21, 29, 34]

14. Gametic chromosome number(s): n= 10 [15]

15. Specialized chromosomes (B chromosomes/ Sex chromosomes/ Polytene chromosomes/ Neocentric chromosomes): B chromosomes (7) [21]

Image file

16. Ploidy level: Diploid [2, 15, 21, 29, 34]

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 submetacentric to subtelocentric chromosomes [34]; Majority subtelocentric chromosomes [2, 15, 21]

Chromosome size Small to large [2, 15, 34]

NOR chromosome(s) 2 NOR [2, 34]

Degree of asymmetry: Stebbin's 2b class [15]; Stebbin's 1b class [2, 21]

Image file

22. Banding pattern(s): Fluorescent banding by CMA/ DAPI staining [2]

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 10II [10]

Image file

27. Chromosome distribution at anaphase I: Normal [15]

28. Genetic diversity:

Chromosomal level [2]

Image file

DNA level [29, 43]

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

stainability: (92- 98%) [15]