Species Datasheet

Datasheet No. A-073.006.001 **DBT- Network Programme**
(family.genus.species)

1. Taxon:
Species *Zephyranthes carinata* Herb.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Amaryllis carinata* (Herb.) Spreng., *A. concinna* R.Morris, *A. lindleyana* Schult. & Schult.f., *Atamosco carinata* (Herb.) P.Wilson, *Pogonema carinata* (Herb.) Raf., *Zephyranthes tsouii* H.H.Hu,

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Amaryllidaceae J. St.-Hil.
- Genus: *Zephyranthes* Herb.
- Species: *Z. carinata* Herb.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Epigynae
Ordo: Amaryllideae Dumort.
Genus: *Zephyranthes* Herb.
Species: *Z. carinata* Herb.

4. Distribution:

Global: Native to Mexico to Colombia
India: East to Central Himalaya, North East India

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

6. Threat Status:
IUCN:
BSI:
7. Habit and Habitat: Herb. Tropical Dry Forest
8. Life Form: Bulbous geophytes

9. Economic Importance: Ornamental and medicinal

10. Probable Progenitor of:

11. DNA

C- value **Methodology**

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n=46 [8]
2n=48 [1,2,3,4]
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):

21. Somatic chromosomes:

Karyotype: Majority submetacentric chromosomes [4]

Chromosome size: Small to large [4]

NOR chromosome(s): 1 NOR [4]

Degree of asymmetry: Symmetrical [4]

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): Pollen stainability – 88.1% [3]