

# Species Datasheet

Datasheet No. A-073.003.014  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species *Crinum viviparum* (Lam.) R. Ansari & V. J. Nair

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Amaryllis coenosa* Hook.f., *A. vivipara* Lam., *Crinum defixum* Ker Gawl., *C. defixum* var. *ensifolium* (Roxb.) Baker, *C. defixum* f. *stephenhassardii* Traub, *C. ensifolium* Roxb., *C. roxburghii* Dazell & A.Gibson, *C. viviparum* var. *ensifolium* (Roxb.) R. Ansari & V.J.Nair

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Amaryllidaceae J. St.-Hil.
- Genus: *Crinum* L.  
Species: *C. viviparum* (Lam.) R. Ansari & V. J. Nair

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Epigynae  
Ordo: Amaryllideae Dumort.  
Genus: *Crinum* L.  
Species: *C. viviparum* (Lam.) R. Ansari & V. J. Nair

## 4. Distribution:

**Global:** Bangladesh, India, Nepal, Sri Lanka, Myanmar, Thailand Vietnam

**India:** Throughout India

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

## 6. Threat Status:

IUCN: Least Concern

BSI:

**7. Habit and Habitat:** Herb, It is an aquatic plant that commonly grows on rocky, shallow river beds or along the river bank, Canals, lakes and marshy places.

**8. Life Form:** Bulbous geophytes

**9. Economic Importance:**

**10. Probable Progenitor of:**

## 11. DNA

**C- value:**

4C (47.15 pg)<sup>17</sup>

**Methodology:**

Fuelgen cytophotometry<sup>17</sup>

**12. Basic chromosome number(s):** x = 11<sup>18</sup>

**13. Zygotic chromosome number(s):** 2n = 22<sup>2, 17, 18, 19, 20, 21</sup>

2n = 19-36<sup>18</sup>  
2n = 19-60<sup>17, 22</sup>

**14. Gametic chromosome number(s):**

**15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):** B chromosomes (1)<sup>22</sup>

Image file

**16. Ploidy level:** Diploid <sup>2</sup>

Image file

**17. Agametoploidy**

**18. Nature of polyploidy (auto, segmental, allo, autoallo):**

**19. Genomic formula:**

**20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):** Aneuploidy <sup>18</sup>, endoduplication <sup>18</sup>, aneusomaty <sup>18</sup>

**21. Somatic chromosomes:**

**Karyotype:** Majority submetacentric chromosomes <sup>2, 18, 19</sup>

**Chromosome size:** Small <sup>17</sup>, Medium to large <sup>21</sup>

**NOR chromosome(s):** 2 NOR <sup>2</sup>, 3 NOR <sup>18</sup>

**Degree of asymmetry:** Asymmetrical tendency <sup>18</sup>

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**22. Banding pattern(s):** CMA bands <sup>19</sup>, DAPI bands <sup>19</sup>

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** <sup>15</sup>

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