

# Species Datasheet

Datasheet No. A-073.005.006  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species *Hymenocallis rotata* (Ker Gawl.) Herb.

Subspecies

Variety

Cultivar

Hybrid

Image file

**2. Synonyms:** *Hymenocallis rotata* var. *disciformis* (DC.) Herb., *H. rotata* var. *quadrifolia* Herb., *H. disciformis* (DC.) M.Roem., *H. floridana* (Raf.) C.V.Morton, *H. floridana* subsp. *amplifolia* Traub, *H. lacera* var. *minor* Chapm., *H. laciniata* Small, *H. mexicana* Herb., *H. paludosa* Salisb., *H. rotata* var. *disciformis* (DC.) Herb., *H. rotata* var. *quadrifolia* Herb., *Ismene knightii* Knowles & Westc., *Pancreatium caribaeum* Mill., *P. disciforme* DC., *P. rotatum* Ker Gawl., *P. rotatum* var. *biflorum* Ker Gawl., *P. rotatum* var. *pluriflorum* Ker Gawl., *Tomodon floridanum* Raf., *T. rotatum* (Ker Gawl.) Raf.

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Amaryllidaceae J. St.-Hil.
- Genus: *Hymenocallis* Salisb.
- Species: *H. rotata* (Ker Gawl.) Herb.

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Monocotyledones  
Series: Epigynae  
Ordo: Amaryllideae Dumort.  
Genus: *Hymenocallis* Salisb.  
Species: *H. rotata* (Ker Gawl.) Herb.

## 4. Distribution:

**Global:** Northern America Southeastern U.S.A. Florida

**India:**

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

## 6. Threat Status:

**IUCN:**

**BSI:**

**7. Habit and Habitat:** Herb; Mediterranean forest, woodlands and scrub

**8. Life Form:** Bulbous geophytes

**9. Economic Importance:** Ornamental

**10. Probable Progenitor of:**

## 11. DNA

C- value

Methodology

**12. Basic chromosome number(s):**

**13. Zygotic chromosome number(s):**  $2n = 44$ <sup>1,5</sup>

$2n = 46$ <sup>4</sup>

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

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

Image file

**16. Ploidy level:**

Image file

**17. Agameteoploidy**

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

**19. Genomic formula:**

**20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):** variant chromosome number showing  $2n=46$  <sup>1,5</sup>

**21. Somatic chromosomes:**

**Karyotype:** Majority metacentric chromosomes <sup>1,4</sup>

**Chromosome size:** Small to very large <sup>1</sup>

**NOR chromosome(s):** 18 NOR <sup>1</sup>

**Degree of asymmetry:** Stebbin's 2B category <sup>4</sup>

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):**