

# Species Datasheet

Datasheet No. A-377.001.005  
(family.genus.species)

DBT- Network

## 1. Taxon:

Species: *Acanthus mollis* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Acanthus hispanicus* Loudon, *A. latifolius* E. Goeze, *A. longifolius* Poir., *A. lusitanicus* auct., *A. niger* Mill., *A. platyphyllus* Murb., *A. spinoisissimus* Host

## 3. Systematic Position:

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Asterids
- Order: Lamiales Bromhead
- Family: Acanthaceae Juss.
- Genus: *Acanthus* L.
- Species: *A. mollis* L.

### Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Gamopetalae
- Series: Bicarpellatae
- Cohors: Personales
- Ordo: Acanthaceae Juss.
- Genus: *Acanthus* L.
- Species: *A. mollis* L.

## 4. Distribution:

**Global:** Southern Europe, India, Northwestern Africa.

**India:** Cultivated Tamil Nadu, Nilgiri Hills

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

## 6. Threat Status:

**IUCN:**

**BSI:**

7. **Habit and Habitat:** Herb and grows in Stony hillside.

8. **Life Form:** Chamaephytes

9. **Economic Importance:** Medicinal, ornamental

10. **Probable Progenitor of:**

11. **DNA**

**C-value: Methodology:**

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

13. **Zygotic chromosome number(s):**  $2n=80^3$ ,  $2n=28^9$ ,  $2n=56^4$

14. **Gametic chromosome number(s):**  $n=24$ ,  $n=28^4$

15. **Specialized chromosomes (B chromosomes/Sex chromosomes/Ringchromosomes/etc):**

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, aneusomy, polysomy):**

**21. Somatic chromosomes:**

**Karyotype** –Majority metacentric /submetacentric<sup>3</sup>

**Chromosome size**-1.2-6.0 $\mu\text{m}^3$

**NOR chromosome(s)**

**Degree of asymmetry:** Symmetrical<sup>3, 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**

**27. Chromosome distribution at anaphase I:**

**28. Genetic diversity:**

**Chromosomal level**

**DNA level**

**29. Any other information**