

Species Datasheet

Datasheet No. A-078.001.012
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Commelina longifolia* Lam

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. **Synonyms:** *Commelina diffusa* Willd. ex Kunth, *C. pedunculosa* Spreng. & Link., *C. salicifolia* Roxb.

3. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Commelinales Mirb. ex Bercht. & J. Presl
- Family: Commelinaceae Mirb.
- Genus: *Commelina* L.
- Species: *C. longifolia* Lam.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Commelinaceae Mirb.
Genus: *Commelina* L.
Species: *C. longifolia* Lam.

4. Distribution:

Global: Bangladesh, Cambodia, China, India, Andaman Island, Jawa, Malaya, Malesia Borneo, Myanmar, Thailand, Vietnam, Western Indian Ocean Seychelles

India: Assam, Andhra Pradesh, Kerala, Maharashtra, Madhya Pradesh, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Herb, along the moist places.

8. **Life Form:** Chamaephyte

9. **Economic Importance:** Medicine

10. **Probable Progenitor of:**

11.DNA

C-valueMethodology:

12.Basic chromosome number(s): $x=15^{44}$

13. Zygotic chromosome number(s): $2n=75^{15,24}90^{2,3,44}$

14. Gametic chromosome number(s): $n=45^{31}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/polytene chromosomes/Neocentric chromosomes):

Image file

16.Ploidy level:Hexaploid⁴⁴

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:

Chromosome size:

NOR chromosome(s):

Degree of asymmetry:

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):