

Species Datasheet

Datasheet No. A-078.001.016
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Commelina subulata* Roth.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

2. Synonyms: *Commelina angustissima* K.Schum., *C. attenuata* B. Heyne ex Steud., *C. elegantula* K.Schum., *C. linearifolia* Kunth, *C. striata* Hochst. ex A. Rich., *C. subaurantiaca* Hochst. ex Kunth, *C. subulata* var. *macrosperma* C.B. Clarke, *C. violacea* C.B. Clarke, *Tradescantia biflora* Willd. ex Schult. & Schult. f.

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. subulata* Roth.

4. Distribution:

Global: Arabian

Natal, Malawi, Mali, Mozambique, Namibia, Niger, Northeast Provinces, Senegal, Sudan, Swaziland, Tanzania, Togo, Uganda, West

India: Andhra Pradesh, Karnataka, Maharashtra

Bentham and Hooker (1862)

Kingdom: Plantae, Ethiopia, Free

Division: Phanerogamia

Class: Monocotyledones

Series: Coronarieae

Ordo: Commelinaceae Mirb.

Genus: *Commelina* L.

Species: *C. subulata* Roth.

State, Ghana, India, KwaZulu-

Africa

Chad, Northern

West-Central Tropical Africa Burundi

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Herb; grows in seasonal pools, grasslands and exposed rocks, fully exposed to Sun, Tropical Dry Forest

8. Life Form: Therophyte

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-valueMethodology:

12.Basic chromosome number(s): $x=15^{29,54}$

13. Zygotic chromosome number(s): $2n=30^{41,44,54}60^{8,29}$

14. Gametic chromosome number(s): $n=15^{54}30^{8,29}$

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

Image file

16.Ploidy level:Diploid⁵⁴Tetraploid^{9,22,29}

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):