Genus Datasheet

Datasheet No. A-098.001 (family,genus,species)

DBT- Network Programme

1. Genus:*Cyprus* L.

2. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: Cyperaceae Juss.
- Genus: *Cyperus* L.

Bentham and Hooker(1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Glumaceae
Ordo: Cyperaceae Juss.
Genus: *Cyperus* L.

3. Species:

Global:699

India: ~75

4. Taxonomic riddles:

5. Distribution:

Global: Cosmopolitan

India: Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Goa, Himachal Pradesh, Jammu-Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal.

6. Habit and Habitat: Annuals, or tufted, rhizomatous, stoloniferous or bulbiferous perennials herb. Found in very dry to permanently submerged, from open sunny places to dark forest, from acid bogs to brackish marshes, several species on disturbed ground and becoming weedy.

7.Economic Importance: Ornamental and medicinal Plant

8. DNA content range:

2C: 0.9pg-1.6pg[49]

4C:1.8pg-3.2pg[49]

Methodology

Feulgen Microdensitomitry[49]

9. Basic chromosome number(s):$x=8^{1,2,6,10,17,18,28}9^{6,10,17,18,28}13^{28}29^{10}$

10. Zygotic chromosome number(s):

2n=16[10,13,44]18[17,21,22,33,44]28[4]30[17]32[4]34[4,9,11,31]36[10,13,40,42,46]38[5,6,10]40[8,9,11,17,19,31]42[10]44[1]

48[7,8,9,11,19,34]50[10,26]52[10]56[12]58[10,13]64[10,18,26]72[4,37,38,41,47,48]74[18]84[4]96[5,6,17,31]

108[9,10,11,13,19,35,36,45]109[9]112[11]128[49]152[8,23] 208[9,10,11,19,26]

11. Gametic chromosome number(s):

n=7[32]8[4,5,6,28]9[16]10[11]14[32]13[4,8,27,28]16[1,3,4,16,20,21,22]17[16]18[4,2,5,6,7,8,21, 27,28,30,32,39]

19[5,6]20[4,8,23]24[4,7,8]27[4]28[8]29[5,6]32[18,25]34[2,3]36[4,5,6,8,21,43]37[18,25,30]40[1,14,15,20,29]

42[2,3,4,16]45[4]46[3]48[3,5,6,24,25]49[7,8,25]50[1,2,3,14,18,25,30]52[2,3,5,6]53[30]

54[2,3,5,6,8,9,11,18,23]55[2,8,23]56[1,2,3,5,6,9,10,11,12,20,21,30]57[2,3,7,18,25,30]58[2,3]

60[30]59[2,3]64[1,2,3,5,6,9,11,18, 19,20,27]66[2] 69[1,21]76[23]80[2]100[30]104[9,19]

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes Neocentric chromosomes):

13. Ploidy level: Diploid[10,31];Tetraploid[1];Octaploid[18];Decaploid[1,2]; Do-decaploid[2,18]; Tetra-De Hexa-Decaploid[1,2,18]; Deca-decaploid[2]

14. Nature of polyploidy (auto, segmental, allo, autoallo): Intraspecific Polyploidy[1]Euploidy[1]

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Aneuploidy[1,2]

16. Karyograms:Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes:GISH:

19.Phylogenetic relationship atChromosomal; DNAlevel:

21. Linkage map:

22. Any other information: The Genus *Cyperus* is represented by 60 species as per APG IV cl
of 60 Species, 34 have been investigated for chromosome numbers etc. while remaining 26 s
been worked out as there is no literature on chromosome data available.