

Species Datasheet

Datasheet No. A-098.001.027
(family.genus.species)

DBT- Networ

1.Taxon:

Species:*Cyperusiria*L.
Subspecies:
Variety:
Cultivar:
Hybrid:
Image file

2.Synonyms:*Chlorocyperus iria* (L.) Rikli, *Cyperus chrysomelinus* Link, *C. diaphaniria* Steud.,*C. iria* f. *chrysomelinus* (Link) Kük., *C. iria* f. *diaphaniria* (Steud.) Miq.,*C. iria* f. *flavescens* (Benth.) Domin, *C. iria* var. *flavescens* Benth.,*C. iria* f. *multiflora* Domin, *C. iria* var. *paniciformis* C.B.Clarke, *C. iria* var. *santonici* (Rottb.) Fernald &Griscom, *C. microlepis* Baker, *C. nangtciangensis* Pamp.,*C. paniciformis* Franch. &Sav.,*C. panicoides* Lam., *C. resinusus* Hochst. exSteud. *C. santonici* Rottb.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: CyperaceaeJuss.
- Genus: *Cyperus* L.
- Species: *C. iria*L.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Glumaceae
Ordo: CyperaceaeJuss.
Genus: *Cyperus* L.
Species: *C. iria*L.

4.Distribution:

Global: Africa, central Asia, East and Southeast Asia and Australia

India: Throughout India.

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

6.Threat Status:

IUCN: Least Concern

BSI:

7.Habit and Habitat:Herb.Grows in marshy areas and along ditches. It is a common weed of cultivated ground and rice fields

8.Life Form:

9.Economic Importance:Leaves are used as an antibiotic and its decoctions are used in colds. Also used for matting and cattle feed.

10. Probable Progenitor of:

11.DNA

C-value

2C: 1.6pg⁴⁹; 4C: 3.2pg⁴⁹

Methodology:

Feulgen Microdensitometry⁴⁹

12. Basic chromosome number(s): $x=8^{1,6}$

13. Zygotic chromosome number(s): $2n=18^{44}128^{49}$

14. Gametic chromosome number(s): $n=36^{4,8,43}52^354^{2,3}56^{1,21}58^{2,3}64^{1,5,6,20}$

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

Image file

16. Ploidylevel: Tetradecaploid (14x)¹; Hexadecaploid (16x)¹

Image file

17. Agametoploidy:

18. Nature of polyploidy (auto, segmental, allo, autoallo): Intraspecific Polyploidy¹

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; Translocation etc):