

Species Data Sheet

Datasheet No. A-098.022.017
(family.genus.species)

DBT- Network Programme

1. Taxon: *Pycreus* P. Beauv

Species: *Pycreus polystachyos* (Rottb.) P. Beauv.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Chlorocyperus polystachyus* (Rottb.) Rikli, *Cyperus polystachyos* Rottb., *Pycreus polystachyos* var. *typicus*

3. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Poales Small
- Family: Cyperaceae Juss.
- Genus: *Pycreus* P. Beauv
- Species: *Pycreus polystachyos*

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Glumaceae
Ordo: Cyperaceae Juss.
Genus: *Pycreus* P. Beauv
Species: *Pycreus polystachyos*

4. Distribution:

Global: Algeria, Australia, Egypt, Morocco, Myanmar, Namibia, Nepal and Nicaragua

India: Assam, Arunachal Pradesh, Meghalaya, Punjab

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Herb

8. Life Form: Annual

9. Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value

Methodology:

12. Basic chromosome number(s): $x=10^6$

13. Zygotic chromosome number(s): $2n=50^6 96^{1,3} 106^5$

14. Gametic chromosome number(s): $n=49^4$

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

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16. Ploidy level: Pentaploid⁶

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy): Aneuploid⁶

21. Somatic chromosomes:

Karyotype: Mostly subtelocentric and metacentric⁶

Chromosome size: small size⁶

NOR chromosome(s): 2NOR⁶

Degree of asymmetry: Asymmetric

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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):