

Genus Data Sheet

Datasheet No. A-098.022
(family,genus,species)

DBT- Network Programme

1. Genus: *Pycreus* P. Beauv.

3. Systematic position:

APG IV (2016)

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

Bentham and Hooker (1862)

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

3. Species:

Global: 121

India: 15

4. Taxonomic riddles:

5. Distribution:

Global: Algeria, Australia, Egypt, Morocco, Myanmar, Namibia, Nepal, Nicaragua Peninsular India, Central America, South America, Indonesia, Kenya, Nigeria, Philippines, Rwanda and Mexico, Afghanistan, Sri Lanka, Bangladesh, Bhutan, South Europe, Africa, Angola, Pakistan, Bermuda, France, Ghana, Guatemala, Hungary, Iran, Israel and North temperate regions.

India: Assam, Maharashtra, Karnataka, Kerala, Tamil Nadu, Arunachal Pradesh, Meghalaya, Punjab, Andhra Pradesh, Uttar Pradesh, West Bengal and Mizoram

6. Habit and Habitat: Herb

7. Economic Importance:

8. DNA content range:

Methodology

2C: 4C:

9. Basic chromosome number(s): $x=5^{12}8^{9,13}10^6$

10. Zygotic chromosome number(s): $2n=10^{18}18^642^{4,18}50^{5,6,7,10,12,14}54^{3,19}58^{25}60^470^{15}80^5$
 $96^{1,3}106^5$

11. Gametic chromosome number(s): $n=8^{2,8,17,18}10^{3,19}21^{4,18,25}24^{2,3,11,13}25^{2,3,4,7,8,9}36^{21,22}$
 $40^{3,7,16,20,23}43^{2,8}45^{20}47^{7,8}49^4$

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

13. Ploidy level: Pentaploid⁶ Hexaploid^{9,13} Decaploid¹²

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Aneuploidy⁶

16. Karyograms:

Meiosis:

17. Banding pattern(s):

18. Physical mapping of chromosomes: GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:

20. Cytogenetic mechanism (s) underlying evolution: Aneuploidy^{2,6,9} Polyploidy^{6,9} Karyotype alter

21. Linkage map:

22. Any other information: Nine species have been done out of total Fifteen as per APG-IV.