

Species Datasheet

Datasheet No. P-002.002.004

(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Isoetes panchananii* Pant & Srivast. (unresolved)

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: Nil

3.Systematic Position: Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Lycopodiidae Bek.
- Order: Isoetales Prantl
- Family: Isoetaceae Reichenb.
- Subfamily:
- Genus: *Isoetes* L.
- Species: *Isoetes panchananii* Pant & Srivast. (unresolved)
- Subspecies:
- Variety:

4.Distribution:

Global:India, Thailand, Sri Lanka, Vietnam

India: Tamil Nadu, Kerala, Karnataka, Maharashtra, Gujarat, Madhya Pradesh, Uttar Pradesh, Bihar, Orissa, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grows gregariously around shallow pond

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=11^{11, 16}$

13. Zygotic chromosome number(s): $2n=44+1f^{11, 16}$

14. Gametic chromosome number(s): $n=55+1f^{4, 19, 20}$

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

Image file

16.Ploidylevel:Tetraploid^{11, 16},

Decaploid (sexual)^{4, 19, 20}

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 Tetraploid : $44I^{11}$,

Decaploid: $55II^{4, 19, 20}$

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.):