Species Datasheet

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Datasheet No. P-030.006.003
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Ceratopteris thalictroides* (L.) Brongn.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Acrostichumsiliquosum L.
Acrostichumthalictroides L.
Belvisiasiliquosa (L.) Mirb.
Ceratopterisdeltoidea Benedict
*Ceratopterisgaudichaudii*Brongn.
Ceratopterissiliquosa (L.) Copel.
Ellobocarpuscornuta (P. Beauv.) Kaulf.
Furcariacornuta (P. Beauv.) Desv.
Furcariathalictroides (L.) Desv.
Onychiumcornutum (P. Beauv.) Hassak.
Pterissiliquosa (L.) P. Beauv.
Pteristhalictroides (L.) Sw.
Teleozomathalictroides (L.) R. Br.

3.Systematic Position:

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- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Ceratoptridoideae (J. Sm.) R.M. Tryon
- Genus: *Ceratopteris* Brong.
- Species: *Ceratopteris thalictroides* (L.) Brongn.

- Subspecies:
- Variety:

4.Distribution:

Global: Tropics and temperate regions of the world

India: Throughout Kerala

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:occurs in semi shaded localities mostly rooted in mud, occasionally free floating and common in paddy fields, ponds

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C (7.60 pg)[13]	Feulgenmicrodensitometry[13]

12.Basic chromosome number(s):x= 38[4, 10], 39 [3, 7, 8], 40[11, 12, 15]

13. Zygotic chromosome number(s):2n=80[11, 12] ,156[7], 154[7, 9]

14. Gametic chromosome number(s):n=38[4, 10] , 40 [11, 12, 15] , 80[4, 14, 15] , 78[3, 7, 8] , 77[2, 5, 7, 9] ,76[4]

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

Image file

16.Ploidylevel: Diploid (sexual)[4, 10, 11, 12, 15,

Tetraploid (sexual) [2, 3, 4, 5, 7, 8, 9, 14, 15]

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 Diploid: $38II^{4, 10}$,$40II^{11, 12, 15}$,

Tetraploid: $80II^{4, 14, 15}$, $78II^{3, 7, 8}$, $77II^{2, 7, 9}$, $76II^{4}$

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;Translocationsetc.):