

Species Datasheet

-

Datasheet No. P-030.012.036
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Pteris quadriaurita* Retz.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Pterisbiaurita var. *repandula* (Link) Kauh

Pterisdiestelii Hieron.

Pterisedentula Kunze

Pterisgaleotti (Fée) Hook.

Pterisnemoralis var. *major* M. Martens & Galeotti

Pterisprolifera J. Bommer

Pterisquadriaurita var. *asperula* Christ

Pterisquadriaurita var. *curtidens* Christ

Pterisrepandula Link

3. Systematic Position:

Christenhusz 2011

- Class: Equisetopsida C. Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Pteridaceae E.D.M. Kirchn
- Subfamily: Pteridoideae C. Chr. Ex Crabbe, Jermy & Mickel
- Genus: *Pteris* L.
- Species: *Pteris quadriaurita* Retz.
- Subspecies:
- Variety:

4. Distribution:

Global:Tropics and sub tropics of the world

India: +Himalayas, throughout Kerala, Western Ghats, Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial herb, Moist deciduous, semi evergreen and evergreen forests.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=29$ ^{1, 11, 12, 27, 28, 35, 43, 51, 52, 56, 67, 69, 70, 71, 75, 76, 78}

13. Zygotic chromosome number(s): $2n=58$ ^{1, 11, 12, 56},
⁸⁷^{57, 61}

14. Gametic chromosome number(s): $n=29$ ^{1, 27, 28, 35, 43, 51, 52, 56, 67, 69, 70, 71, 75, 76, 78},
⁵⁸^{1, 11, 12, 15, 17, 18, 37, 84, 85},
⁸⁷^{57, 61}

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes):

Image file

16.Ploidylevel:Diploid (sexual) ^{1, 27, 28, 35, 43, 51, 52, 56, 67, 69, 70, 71, 75, 76, 78} ,

Diploid (apogamous)^{11, 12} ,

Triploid (apogamous) ^{57, 61} ,

Tetraploid (sexual) ^{1, 15, 17, 18, 37, 84, 85}

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 meiosisDiploid: 29II^{1, 35, 51, 52, 56, 67, 70, 71},

Diploid (apogamous): 8-celled sporangium 58II ^{11, 12}

Triploid (apogamous): 8-celled sporangium 87II ⁵⁷,

Tetraploid: 58II^{1, 15, 17, 18, 37, 84, 85},

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.):Apogamy^{11, 12, 57}