Species Datasheet

Datasheet No. P-040.001.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Blechnum occidentale* L.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Blechnumcampylotis (Kunze) J. Sm.
Blechnumcartilagineum Sw.
Blechnumcognatum C. Presl
Blechnum × *falciculatum* C. Presl
*Blechnummucronatum*Fée
Blechnumoccidentale var. *occidentale*
Blechnumrugosum T. Moore
*Blechnumuburbicum*Vell.
*Lomariacampylotis*Kunze
Mesothemacampylotis (Kunze) C. Presl

3.Systematic Position:
Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Blechnaceae Newman
- Subfamily:
- Genus: *Blechnum* L.
- Species: *Blechnum occidentale* L.
- Subspecies*:*
- *Variety:*

4.Distribution:

Global:found in the Americas, from Texas and Florida in the USA, down as far south as Argentina and Paraguay in South America, and including some islands in the Caribbean

India:

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Terrestrial, inhabits the interior of forests, most often growing along forest edges, trails, roads and rarely on rocks near streams , 40 and 1600 m

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s):x=31[1, 4, 5, 7, 16, 23, 24, 28, 32, 33], 32[15, 29]

13. Zygotic chromosome number(s):2n=64[15, 29] , 92[7] **,** c.93[28] , 124[1, 4, 5, 7, 16, 23, 24, 33] , 132[29]

14. Gametic chromosome number(s):62[12, 32, 33]

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

chromosomes/Neocentric chromosomes):

Image file

16.Ploidylevel: Diploid (sexual)[15, 29] ,

Triploid [7] ,

Tetraploid (sterile hybrid)[1, 4, 5, 12, 23, 24] ,

Tetraploid (sexual) [7, 16, 31]

Image file

17.Agametoploidy:

18.Nature of polyploidy (auto, segmental, allo, autoallo): Autoalloploid [23, 24]

19.Genomicformula: AABC [23, 24]

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

Triploid:c. 31II+31I [28] ,

Tetraploid: Irregular with IIs and Is[1, 5] , 40II+44I[23, 24] , 62II[12, 32, 33]

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.):