Species Datasheet

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Datasheet No. P-037.003.001
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Ceterach officinarum* Willd.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Aspleniumceterach L.

3.Systematic Position:
Christenhusz 2011

- Class: EquisetopsidaC.Agardh
- Subclass: PolypodiidaeCronquist, Takht. &Zimmerm.
- Order: Polypodiales Link.
- Family: Aspleniaceae Newman
- Subfamily:
- Genus: *Ceterach* Willd.
- Species: *Ceterach officinarum* Willd.
- Subspecies*:*
- *Variety:*

4.Distribution:

Global: Western and Central Europe, including the Mediterranean region

India: Western Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Growing in rocky walls, especially in alkaline ones up to 2700 m, prefers mountainous locations, full sun and less humid conditions.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	**Methodology**
2C: 15.80pg[17]	Flow cytometry[17]

12.Basic chromosome number(s):x=36[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,12, 13,14, 15, 16, 17, 19, 20, 21, 23]

13. Zygotic chromosome number(s):2n=72[5, 11] ,144[4, 6, 8, 9, 10, 12, 19, 20] , 216[12]

14. Gametic chromosome number(s):n=36 [23] , 72[1, 2, 3, 7, 14, 15, 16, 17, 21, 23] , 108[13]

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

Image file

16.Ploidylevel: Diploid (sexual)[5, 11, 23] ,

Tetraploid (sexual)[1, 2, 3, 4, 6, 7, 8, 9, 12, 14, 15, 16, 17, 20, 21] ,

Hexaploid (sexual)[12, 13]

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: 36II[23] Vida G 1963 A new Asplenium (section Ceterach) species and the problem of the origin of Phyllitis hybrid (Milde) C. Christ. Acta Bot Acad Hungary 9: 197-215

Tetraploid: 72II[1, 2, 3, 4, 6, 7, 12, 14, 15, 16, 17, 20, 21, 23]Tetraploid (sexual)Emmott, J.I. New Phytol. 63: 306-318 (1964)

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Vida G 1963 A new Asplenium (section Ceterach) species and the problem of the origin of Phyllitis hybrid (Milde) C. Christ. Acta Bot Acad Hungary 9: 197-215

Hexaploid: $108II^{13}$ Pinter et al 2002

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.):