Species Datasheet

Datasheet No. P-037.001.029
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Asplenium nidus* L.

Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Aspleniumaustralasicum (J. Sm.) Hook.
*Aspleniumficifolium*Goldm.
Aspleniumnidus var. *nidus*
Neottopterisaustralasica J. Sm.
*Neottopterismauritiana*Fée
Neottopterismusaefolia J. Sm.
Neottopterisnidus (L.) J. Sm.
*Neottopterisrigida*Fée

3.Systematic Position:
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- Class: Equisetopsida C.Agardh
- Subclass: Polypodiidae Cronquist, Takht. & Zimmerm.
- Order: Polypodiales Link.
- Family: Aspleniaceae Newman
- Subfamily:
- Genus: *Asplenium* L.
- Species: *Asplenium nidus* L.
- Subspecies*:*
- *Variety:*

4.Distribution:

Global: East tropical Africa (in Tanzania, inclusive of the Zanzibar Archipelago); temperate and tropical Asia (in Indonesia; East Timor; the prefecture of Kyushu, and the Ryukyu Islands of Japan; Malaysia; the Philippines; Taiwan; and Thailand); and in Australasia (in the northern part of Queensland in Australia)

India: Foothills of Eastern Himalayas

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:: Epiphytic or terrestrial plant but typically grows on organic matter at 1500m

8.Life Form:

9.Economic Importance:*Aspleniumnidus* has been used locally in folk medicine for asthma, sores, weakness, and halitosis and in horticulture

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=36[1, 4, 11,53, 57, 61, 104, 134, 147, 154]

13. Zygotic chromosome number(s):2n=72 [154],144[53, 57, 61, 104, 134, 147, 154]

14. Gametic chromosome number(s):n=72[1, 4, 11]

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

Image file

16.Ploidy level: Diploid (sexual) [154] , Tetraploid (sexual)[1, 4, 11,53, 57, 61, 104, 134, 147, 154]

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 meiosis72II[1, 4, 11]

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level[103,147]

29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis; Pollen stainability;Translocationsetc.):