

Species Datasheet

Datasheet No. A-061.100.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Spiranthes sinensis* (Pers.) Ames

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Aristoteleaspiralis* Lour., *Calanthe australis* (R.Br.) Aiton ex Loudon, *Epidendrum aristotelea* Raeusch., *Gyrostachys amoena* Blume, *Gyrostachys australis* (R.Br.) Blume, *Gyrostachys australis* var. *flexuosa* (Sm.) Blume, *Gyrostachys australis* var. *sinensis* (Pers.) Blume, *Gyrostachys congesta* (Lindl.) Kuntze, *Gyrostachys novifuburgensis* Kuntze, *Gyrostachys stylites* (Lindl.) Kuntze, *Gyrostachys wightiana* Kuntze, *Ibidium spirale* (Lour.) Makino, *Ibidium viridiflorum* (Makino) Makino, *Monistes australis* (R.Br.) Raf., *Neottia amoena* M.Bieb., *Neottia australis* R.Br., *Neottia australis* var. *chinensis* Ker Gawl., *Neottia crispata* Blume, *Neottia flexuosa* Sm., *Neottia parviflora* Sm., *Neottia pudica* (Lindl.) Sweet, *Neottia sinensis* Pers., *Ophrys spiralis* Georgi, *Sarcoglottis pudica* (Lindl.) P.N. Don, *Spiranthes amoena* (M.Bieb.) Spreng., *Spiranthes aristotelea* Merr., *Spiranthes australis* (R.Br.) Lindl., *Spiranthes australis* var. *pudica* (Lindl.) F.Muell., *Spiranthes australis* var. *sinensis* (Pers.) Gagnep., *Spiranthes australis* var. *suishaensis* Hayata, *Spiranthes australis* var. *viridiflora* Makino, *Spiranthes congesta* Lindl., *Spiranthes crispata* (Blume) Zoll. & Moritz, *Spiranthes densa* A.Rich., *Spiranthes flexuosa* (Sm.) Lindl., *Spiranthes indica* Lindl. ex Steud., *Spiranthes longispicata* A.Rich., *Spiranthes neocaledonica* Schltr., *Spiranthes novae-zelandiae* Hook.f., *Spiranthes papuana* Schltr., *Spiranthes parviflora* (Sm.) Lindl., *Spiranthes pudica* Lindl., *Spiranthes sinensis* var. *amoena* (M.Bieb.) H.Hara, *Spiranthes sinensis* var. *australis* (R.Br.) H.Hara & S.Kitam., *Spiranthes sinensis* f. *autumnus* Tsukaya, *Spiranthes spiralis* (Lour.) Makino, *Spiranthes stylites* Lindl., *Spiranthes suishaensis* (Hayata) Hayata, *Spiranthes suishanensis* (Hayata) Schltr., *Spiranthes viridiflora* (Makino) Makino, *Spiranthes wightiana* Lindl. ex Wall., *Spiranthes wightiana* Lindl.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Orchidoideae
- Tribe: Cranichideae
- Subtribe: Spiranthinae
- Genus: *Spiranthes* Rich
- Species: *Spiranthes sinensis* (Pers.) Ames

4. Distribution:

Global: Bangladesh, Bismarck Archipelago, China South-Central, China Southeast, Hainan, Japan, Laos, Myanmar, Nansei-shoto, New Caledonia, New Guinea, Philippines, Taiwan, Vietnam, Western Australia

India: Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Punjab, Sikkim, Tripura, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN:Least Concern (LC)

BSI:

7.Habit and Habitat:Medium sized, cool to hot growing terrestrial species on roadsides, grassy areas, open forests

8.Life Form:Phanerophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=15^{5, 9, 11}, 16^5$

13. Zygotic chromosome number(s): $2n=30^{5, 9, 11}, 32^5$

14. Gametic chromosome number(s): $n=15^5, 16^5$

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

Image file

16.Ploidy level:Diploid^{5, 9, 11}

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 $15\Pi^5$, $16\Pi^5$

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; Translocation etc.):