

# Species Datasheet

Datasheet No. A-061.100.002  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Spiranthespiralis*(L.) Chevall.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

**2. Synonyms:***Epipactisspiralis* (L.) Crantz,*Gyrostachysspiralis* (L.) Kuntze,*Ibidiumspirale* (L.) Salisb.,*Neottiaspiralis* (L.) Sw.,*Ophrysspiralis* L.,*Serapiasspiralis* (L.) Scop.,*Gyrostachysautumnalis* (Balb.) Dumort.,*Neottiaautumnalis* (Balb.) Steud.,*Ophrysaautumnalis* Balb.,*Spiranthesautumnalis* (Balb.) Rich.,*Spiranthesautumnalis* f. *bracteata* E.G.Camus, E.G.Camus,*Spiranthesautumnalis* var. *major* Rouy, G.Rouy & J.Foucaud,*Spiranthesautumnalis* f. *oycoviensis* Zapal., Consp.*Spiranthesautumnalis* f. *parviflora* Soó,*Spiranthesautumnalis* var. *parviflora* Schur, *Spiranthesglauca* Raf., *Tussacautumnalis* (Balb.) Desv.

## 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 spiralis* (L.) Chevall.

## 4. Distribution:

**Global:** Albania, Algeria, Austria, Balears, Belgium, Bulgaria, Corse, Cyprus, Czechoslovakia, Denmark, East Aegean Is., France, Germany, Great Britain, Greece, Hungary, Iran, Ireland, Italy, Kriti, Lebanon-Syria, Morocco, Nepal, Netherlands, North Caucasus, Poland, Portugal, Romania, Sardegna, Sicilia, Spain, Switzerland, Transcaucasus, Tunisia, Turkey, Turkey-in-Europe, Ukraine, West Himalaya, Yugoslavia

**India:** Grows on exposed alluvial soils along water channels 600-1200 m m.s.l. in Kurnool hills.

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

## 6. Threat Status:

IUCN:

BSI:

**7. Habit and Habitat:** Terrestrial herb

**8. Life Form:** Phanerophytes

**9. Economic Importance:**

**10. Probable Progenitor of:**

**11. DNA**

**C-value            Methodology**

**12. Basic chromosome number(s):**  $x=15^{1, 2, 3, 4, 6, 8, 10}$  ,  $10^{10}$  ,  $14^{10}$

**13. Zygotic chromosome number(s):**  $2n=20^{10}$  ,  $28^{10}$  ,  $30+0-2B^{10}$  ,  $30^{1, 2, 3, 4, 6, 8}$

**14. Gametic chromosome number(s):**  $n=15^{7, 10}$

**15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):**  $0-2B^{10}$  Vj, S.P. & Vohra, N. 1974a

Image file

**16. Ploidy level:** Diploid<sup>1, 2, 3, 4, 6, 8, 10</sup>

Image file

**17. Agametoploidy:**

**18. Nature of polyploidy (auto, segmental, allo, autoallo):**

**19. Genomic formula:**

**20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):**

**21. Somatic chromosomes:** <sup>10</sup>

**Karyotype** Median, submedian<sup>10</sup>

**Chromosome size** Small to medium<sup>10</sup>

**NOR chromosome(s)**

**Degree of asymmetry** Symmetrical<sup>10</sup>

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** Cytotype  $2n=30: 15II^{10}$

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.):**