

1. Genus: *Spiranthes* Rich.

2. 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

3. Species:

Global: 40

India: 2

4. Taxonomic riddles: 12, 13

5. Distribution:

Global: Afghanistan, Alabama, Alaska, Albania, Alberta, Aleutian Is., Algeria, Altay, Amur, Arizona, Arkansas, Assam, Austria, Bahamas, Balears, Bangladesh, Belgium, Belize, Bermuda, Bismarck Archipelago, Borneo, British Columbia, Bulgaria, Buryatiya, California, Chatham Is., China North-Central, China South-Central, China Southeast, Chita, Colorado, Connecticut, Corse, Costa Rica, Cuba, Cyprus, Czechoslovakia, Delaware, Denmark, District of Columbia, Dominican Republic, East Aegean Is., East European Russia, East Himalaya, Florida, France, French Guiana, Georgia, Germany, Great Britain, Greece, Guatemala, Hainan, Haiti, Honduras, Hungary, Idaho, Illinois, India, Indiana, Inner Mongolia, Iowa, Iran, Iraq, Ireland, Irkutsk, Italy, Jamaica, Japan, Jawa, Kansas, Kentucky, Khabarovsk, Korea, Krasnoyarsk, Kriti, Kuril Is., Labrador, Laos, Lebanon-Syria, Leeward Is., Lesser Sunda Is., Louisiana, Maine, Malaya, Maluku, Manchuria, Manitoba, Maryland, Massachusetts, Mexico Central, Mexico Gulf, Mexico Northeast, Mexico Southeast, Mexico Southwest, Michigan, Minnesota, Mississippi, Missouri, Mongolia, Montana, Morocco, Myanmar, Nansei-shoto, Nebraska, Nepal, Netherlands, Nevada, New Brunswick, New Caledonia, New Guinea, New Hampshire, New Jersey, New Mexico, New South Wales, New York, New Zealand North, New Zealand South, Newfoundland, Nicaragua, Niue, North Carolina, North Caucasus, North Dakota, Northwest Territories, Nova Scotia, Nunavut, Ohio, Oklahoma, Ontario,

Oregon, Pakistan, Pennsylvania, Philippines, Poland, Port Prince Edward I., Puerto Rico, Qinghai, Queensland, Qu Romania, Sakhalin, Samoa, Sardegna, Saskatchewan, Sicili South Australia, South Carolina, South Dakota, Spain, Sri I Sumatera, Switzerland, Taiwan, Tasmania, Tennessee, Texas, Tonga, Transcaucasus, Trinidad-Tobago, Tunisia, Turkey, Ti Tuva, Ukraine, Utah, Vanuatu, Vermont, Victoria, Vie Washington, West Himalaya, West Siberia, West Virginia, W Windward Is., Wisconsin, Wyoming, Xinjiang, Yakutskiya, Yug

India: Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kash Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Punjab, Sikkim, Tripu West Bengal

6. Habit and Habitat: Terrestrial herb

7. Economic Importance:

8. DNA content range:

Methodology

9. Basic chromosome number(s): $x=10^{10}, 14^{10}, 15^{1, 2, 3, 4, 5, 6, 8, 9, 10, 11}, 16^5$

10. Zygotic chromosome number(s): $2n=20^{10}, 28^{10}, 30+0-2B^{10}, 30^{1, 2, 3, 4, 5, 6, 8, 9, 11}, 32^5$

11. Gametic chromosome number(s): $n=15^{5, 7, 10}, 16^5$

12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes):

13. Ploidy level: Diploid^{1, 2, 3, 4, 5, 6, 8, 9, 10, 11}

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

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

17. Banding pattern(s):

18. Physical mapping of chromosomes:

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level:^{12, 13}

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: