

Datasheet No. A-097.001.006
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Juncus bufonius* L.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Cyperus bufonius* Maack ex Trautv., *Juncus aletaiensis* K.F.Wu, *J. bilineatus* Gand., *J. bufonius* f. *alpinus* (Schur) I.Grint., *J. bufonius* f. *bracteatus* Pamp., *J. bufonius* f. *bufonius*, *J. bufonius* f. *divaricatus* Racib., *J. bufonius* f. *filiformis* Klinge, *J. bufonius* f. *giganteus* (Asch. & Graebn.) Nyár., *J. bufonius* f. *scoparius* (Asch. & Graebn.) Nyár., *J. bufonius* subsp. *juzepeczukii* (V.I.Krecz. & Gontsch.) Soó, *J. bufonius* var. *alpinus* Schur, *J. bufonius* var. *bufonius*, *J. bufonius* var. *capillaris* Rchb., *J. bufonius* var. *compactus* Celak., *J. bufonius* var. *congestus* Wahlenb., *J. bufonius* var. *dolichophyllus* Zapal., *J. bufonius* var. *filiformis* Lojac., *J. bufonius* var. *gracilis* St.-Amans, *J. bufonius* var. *gramineus* Lojac., *J. bufonius* var. *grandiflorus* Schult. & Schult.f., *J. bufonius* var. *juzepeczukii* (V.I.Krecz. & Gontsch.) Vorosch., *J. bufonius* var. *laxus* Celak., *J. bufonius* var. *procerior* Roth, *J. bufonius* var. *pumilio* Griseb., *J. bufonius* var. *subauriculatus* Buchenau, *J. bufonius* var. *suffocatus* Lojac., *J. bufonius* var. *susianus* Nábelek, *J. bufonius* var. *tuberiferus* Krylov, *J. bufonius* var. *typicus* Husn., *J. bufonum* Bubani, *J. cespifolius* Raf., *J. congestus* Nees, *J. creticus* Raf., *J. divaricatus* Gilib., *J. erythropodus* V.I.Krecz., *J. fasciatus* Lojac., *J. istriacus* Gand., *J. juzepeczukii* V.I.Krecz. & Gontsch., *J. leptocladus* Hayata, *J. plebeius* R.Br., *J. prolifer* Kunth, *J. pumilus* Raf., *Schoenus ferrugineus* Krock., *Tenageia bufonia* Fourr.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Poales Small
- Family: Juncaceae Juss.
- Genus: *Juncus* L.
- Species: *J. bufonius* L.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Monocotyledones
- Series: Calycineae
- Ordo: Juncaceae Juss.
- Genus: *Juncus* L.
- Species: *J. bufonius* L.

4. Distribution:

Global: Afghanistan, Alabama, Alaska, Albania, Alberta, Algeria, Altay, Amur, Argentina, Arizona, Arkansas, Austria, Azores, Bahamas, Balears, Baltic States, Bangladesh, Belarus, Belgium, Bolivia, Borneo, Brazil South, British Columbia, Bulgaria, Buryatiya, California, Canary Island, Cape Provinces, Central European Rus, Chad, Chile, China, Chita, Colombia, Colorado, Connecticut, Corse, Costa Rica, Cuba, Cyprus, Czechoslovakia, Denmark, East Aegean Is., East European Russia, East Himalaya, Ecuador, Egypt, Ethiopia, Falkland Island, Finland, Florida, France, Free State, Føroyar, Georgia, Germany, Great Britain, Greece, Guatemala, Hainan, Hawaii, Hungary, Iceland, Illinois, India, Indiana, Inner Mongolia, Iowa, Iran, Iraq, Ireland, Irkutsk, Italy, Jamaica, Japan, Juan Fernández Is, Kamchatka, Kansas, Kazakhstan, Kentucky, Kenya, Khabarovsk, Kirgizstan, Korea, Krasnoyarsk, Kriti, Krym, Kuril Is., Labrador, Lebanon-Syria, Leeward Island, Libya, Louisiana, Madagascar, Madeira, Magadan, Maine, Manchuria, Manitoba, Massachusetts, Mauritania, Mauritius, Mexican Pacific Island, Mexico, Michigan, Minnesota, Missouri, Mongolia, Montana, Morocco, Myanmar, Nebraska, Nepal, Netherlands, New Hampshire, New Jersey, New Mexico, New South Wales, New York, New Zealand North, New Zealand South, Newfoundland, North Carolina, North Caucasus, North Dakota, North European Russi, Northern Territory, Northwest European R, Northwest Territorie, Norway, Nova Scotia, Nunavut, Ohio, Oklahoma, Ontario, Oregon, Pakistan, Palestine, Paraguay, Pennsylvania, Peru, Philippines, Poland, Portugal, Primorye, Prince Edward I., Qinghai, Queensland, Québec, Rhode I., Romania, Rwanda, Sakhalin, Sardegna, Saskatchewan, Sicilia, Sinai, Socotra, South Australia, South Dakota, South European Russi, Spain, Sri Lanka, Sudan, Sweden, Switzerland, Tadzhikistan, Taiwan, Tasmania, Tennessee, Texas, Thailand, Tibet, Transcaucasus, Tristan da Cunha, Tunisia, Turkey, Turkey-in-Europe, Turkmenistan, Tuva, Uganda, Ukraine, Uruguay, Uzbekistan, Venezuela, Vermont, Victoria, Vietnam, Virginia, Washington, West Siberia, West Virginia, Western Australia, Wisconsin, Wyoming, Xinjiang, Yakutskiya, Yemen, Yugoslavia

India: Arunachal Pradesh, Assam, Bihar, Haryana, Himachal Pradesh, Jammu and Kashmir, Kerala, Madhya Pradesh, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttarakhand, Uttar Pradesh, West Bengal

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat:Rhizomatous herb; occurs in wet grasslands, swamps, edges of lakes, river banks and stream sides between 100 and 3,500 meters

8. Life Form:

9. Economic Importance: Used as fodder for wild cattle

10. Probable Progenitor of:

11. DNA

C-value

Methodology

2C (2.6 pg)¹

Feulgen densitometry¹

12. Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=30¹⁴; 2n=34¹⁵; 2n=60¹⁶; 2n=80¹⁷; 2n=106¹⁸; 2n=108³; 2n=120^{16,19}

14. Gametic chromosome number(s):n=30¹⁰

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

Image file

16. Ploidy level:

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy): Variation in somatic chromosome numbers with 2n=27-36, 2n=53-74 and 2n=78-100²⁰

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

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):