

# Species Datasheet

Datasheet No. G-011.007.003  
(family.genus.species)

## 1.Taxon:

Species: *Juniperus communis*L.

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file

**2. Synonyms:** *Juniperus albanica* Penzes, *J. argaea* Balansa ex Parl., *J. borealis* Salisb., *J. caucasica* Fisch. ex Gordon, *J. communis* var. *arborescens* Gaudin, *J. communis* var. *aurea* G.Nicholson, *J. communis* f. *aurea* (G.Nicholson) Rehder, *J. communis* var. *brevifolia* Sanio, *J. communis* subsp. *brevifolia* (Sanio) Penzes, *J. communis* var. *communis*, *J. communis* var. *compressa* Carriere, *J. communis* f. *compressa* (Carriere) Rehder, *J. communis* f. *crispa* Browicz&Ziel., *J. communis* subsp. *cupressiformis* Vict. &Sennen ex Penzes, *J. communis* var. *erecta* Pursh, *J. communis* var. *fastigiata* Parl., *J. communis* var. *hemisphaerica* (J.Presl&C.Presl) Parl., *J. communis* subsp. *hemisphaerica* (J.Presl&C.Presl) Nyman, *J. communis* var. *hispanica* Endl., *J. communis* var. *montana* Neilr., *J. communis* var. *oblonga* Loudon, *J. communis* var. *oblonga-pendula* Loudon, *J. communis* f. *oblonga-pendula* (Loudon) Beissn., *J. communis* subsp. *pannonica* Penzes, *J. communis* var. *pendens* Sudw., *J. communis* var. *pendula* Carriere, *J. communis* f. *pendula* (Carriere) Formanek, *J. communis* var. *pendula-aurea* Senecl., *J. communis* f. *pendulina* Kuphaldt, *J. communis* f. *pungens* Velen., *J. communis* var. *reflexa* Parl., *J. communis* var. *stricta* Carriere, *J. communis* f. *stricta* (Carriere) Rehder, *J. communis* var. *suecica* (Mill.) Aiton, *J. communis* f. *suecica* (Mill.)Beissn., *J. communis* var. *variegata-aurea* Carriere, *J. compressa* Carriere, *J. cracovia* K.Koch, *J. dealbata* Loudon, *J. depressa* Stevols, *J. difformis* Gilib., *J. echinoformis* Rinz ex Bolse, *J. elliptica* K.Koch, *J. fastigiata* Knight, *J. hemisphaerica* C.Presl, *J. hibernica* Lodd. ex Loudon, *J. hispanica* Booth ex Endl., *J. interrupta* H.L.Wendl. ex Endl., *J. kanitzii* Csato, *J. microphylla* Antoine, *J. niemannii* E.L.Wolf, *J. oblonga-pendula* (Loudon) Van Geert ex K.Koch, *J. oblongopendula* Loudon ex Beissn., *J. occidentalis* Carriere, *J. oxycedrus* subsp. *hemisphaerica* (J.Presl&C.Presl) E.Schmid, *J. reflexa* Gordon, *J. saxatilis* Lindl. & Gordon, *J. suecica* Mill., *J. taurica* Lindl. & Gordon, *J. uralensis* Beissn., *J. vulgaris* Bubani, *J. withmanniana* Carriere, *Sabina dealbata* (Loudon) Antoine, *Thuyaecarpus juniperinus* Trautv.

## 3.Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: PinidaeCronquist
- Order: Cupressales Link
- Family:Cupressaceae Gray
- Genus: *Juniperus*L.
- Species: *J.communis*L.

Bentham and Hooker (1862)

Kingdom: Plantae  
Division:Phanerogamia  
Class: Gymnospermeae  
Ordo: Coniferae  
Tribus:Cupressineae  
Genus: *Juniperus*L.  
Species: *J. communis*L.

#### **4.Distribution:**

**Global:** Recorded from temperate Eurasia, North Africa, North America N of Mexico. *J. communis* is the most widely distributed conifer species in the world, with a circumpolar distribution extending from ca. 70° N in Alaska, Scandinavia and Siberia to ca. 28° N in the Himalaya.

**India:** Himachal Pradesh, Jammu & Kashmir, Uttarakhand, Widespread in western Himalayas

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

#### **6.Threat Status:**

**IUCN:** Least Concern

**BSI:**

**7.Habit and Habitat:** Small evergreen tree or shrub 10-16m high, this is largely a pioneer woodland species, occupying natural rock outcrops and other places with skeletal soil and abundant sunlight in woodland and light forest, both broad-leaf and coniferous forest.

#### **8.LifeForm:** Phanerophytes

**9.Economic Importance:** The Common Juniper is widely used as an ornamental in parks and gardens.

#### **10. Probable Progenitor of:**

#### **11.DNA**

##### **C-value              Methodology**

2C (22.90pg) <sup>26</sup> Flow cytometry<sup>26</sup>

2C (22.30pg) <sup>26</sup> Flow cytometry<sup>26</sup>

2C (21.20pg) <sup>26</sup> Flow cytometry<sup>26</sup>

2C (22.10pg) <sup>29</sup> Flow cytometry<sup>29</sup>

2C (19.66 pg) <sup>18</sup> Flow cytometry<sup>18</sup>

2C (19.68 pg) <sup>21</sup> Flow cytometry<sup>21</sup>

**12. Basic chromosome number(s):** $x=11^{2,3,5,6,7,9,10,11,14,15,16,18,20,22,23,24,25}$

**13. Zygotic chromosome number(s):** $2n=22^{2,3,5,6,9,10,11,14,15,16,18,20,22,23,24,25}$

**14. Gametic chromosome number(s):** $n=$

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

Image file

**16. Ploidy level:** Diploid<sup>2,3,5,6,9,10,11,14,15,16,18,20,22,23,24,25</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:** 14, 15, 25

**Karyotype** Median and submedian<sup>14, 15, 25</sup>

**Chromosome size** Large<sup>14, 15, 25</sup>

**NOR chromosome(s)** 2<sup>25</sup>

**Degree of asymmetry** Symmetrical<sup>14, 15, 25</sup>

Image file

**22. Banding pattern(s):** CMA+ bands<sup>25</sup>

Image file

## **23.Physical mapping of chromosomes:**

### **In situ hybridization**

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**Fluorescent in situ hybridization:35SrDNA<sup>25</sup>**

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;Translocationetc.):**