Datasheet No. G-011.007

(Family.Genus)

1. Genus: Juniperus

2. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Pinidae Cronquist
- Order: Cupressales Link
- Family:Cupressaceae Gray
- Genus: JuniperusL.

3. Species:

Global: 75

India: 10

4. Taxonomic riddles:^{27, 28}

5. Distribution:

Global: Distributed throughout the Northern Hemisphere, from the <u>Arctic</u>, south to tropical <u>Africa</u>, from <u>Ziarat</u>, <u>Pakistan</u> east to eastern <u>Tibet</u> in the <u>Old World</u>, and in the mountains of <u>Central America</u>

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

6. Habit and Habitat:vary in size and shape from tall evergreen <u>trees</u>, 20–40 m (66–131 ft) tall, to columnar or low spreading <u>shrubs</u> with long trailing branches.

7.Economic Importance: It was also used in furniture making, coffins, fence posts and for smaller objects such as paper cutters, boxes and rulers.

8. DNA content range:

Methodology Flow cytometry^{8,21,26,29}

2C (19.10-73.60 pg) ^{8,21,26,29}

Bentham and Hooker (1862)

Kingdom: Plantae Division: Phanerogamia Class: Gymnospermeae Ordo: Coniferae Tribus: Cupressineae Genus: *Juniperus*L. **9. Basic chromosome number(s):**x=11^{1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 23, 24}

10. Zygotic chromosome number(s):2n=22^{1, 2, 3, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 23, 2 24²¹, 33^{5, 6}, 44^{5, 6, 13, 14}}

 Gametic chromosome number(s):n=11^{7, 12, 14} 22^{19, 30}
Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/ Neocentric chromosomes):

13. Ploidy level:Diploid¹, 2, 3, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 23, 24, 25, Triploid⁵, ⁶,

Tetraploid^{5, 6, 13, 14, 19, 30}

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

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

16. Karyograms: 13, 12, 14, 15, 17, 25 **Meiosis:** ¹², 14, 30

17. Banding pattern(s):CMA+ bands²⁵

19.Phylogenetic relationship atChromosomal; DNAlevel:

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: