

# Species Datasheet

Datasheet No. A-140.084.007  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Cicerbijugum*K.H.Rech  
Subspecies  
Variety  
Cultivar  
Hybrid

Image file

## 2. Synonyms:

## 3. Systematic Position: APG IV; Bentham and Hooker:

### Bentham and Hooker (1862)

Kingdom: Plantae  
Division: Phanerogamia  
Class: Dicotyledons  
Subclass: Polypetalae  
Series: Calyciflorae  
Cohors: Rosales Bercht. & J. Presl  
Ordo: LeguminosaeJuss.  
Subordo: PapilionaceaeGiseke  
Genus: *Cicer* L.  
Species: *Cicerbijugum*K. H. Rech

### APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Cicer* L.
- Species: *Cicerbijugum*K. H. Rech

## 4. Distribution:

**Global** Central Asia

**India** Experimental stations

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

**6.Threat Status:**

IUCN

BSI

**7.Habit and Habitat:**

**8.Life Form:**Annual

**9.Economic Importance:**

**10. Probable Progenitor of:**

**11.DNA**

**C-value**

2C (2.54pg)<sup>1</sup>

**Methodology**

Microdensitometer

**12.Basic chromosome number(s):** $x = 8$ <sup>139</sup>

**13. Zygotic chromosome number(s):** $2n=16$ <sup>1,18,23 - 26,30,36,37,139</sup>

**14. Gametic chromosome number(s):** $n= 8$ <sup>18</sup>

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

Image file

**16.Ploidy level:**Diploid<sup>1,18,23 - 26,30,36,37,139</sup>

Image file

**17.Agametoploidy:**

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

**19.Genomic formula:**

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

**21.Somatic chromosomes:**1,18,30,36,37,139

**Karyotype** Majority metacentric /submetacentric chromosomes

**Chromosome size**Small

**NOR chromosome(s)**2

**Degree of asymmetry**Symmetrical

Image file

**22.Banding pattern(s)**:C - banding<sup>37</sup>

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**8 II<sup>18</sup>

Image file

**27.Chromosome distribution at anaphase I:**

**28. Genetic diversity:**

**Chromosomal level**<sup>37</sup>

Image file

**DNA level**<sup>44,45,46,48,49,62,64,66,79,80,83,86,87,89,94,105,107,108</sup>

**29.Any other information (Apomixis; Inversion; Male sterility;Pollen grain mitosis;**

**Pollen stainability;Translocationsetc.):Pollen stainability:98.4%**<sup>24</sup>

Tertiary gene pool of *C. arietinum*