The complete chloroplast genome of Chinese medicinal herb *Belamcanda chinensis* (L.) Redouté (Iridaceae)

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**ABSTRACT**

The species of *Belamcanda chinensis* (L.) Redouté is one of the Chinese traditional medicinal herbs. In this study, we first report the complete chloroplast (cp) genome of *B. chinensis*. The chloroplast (cp) genome was determined to be 153,735 bp and the GC content was 37.9%. The sequence includes a large single-copy (LSC) region of 83,199 bp, a small single-copy (SSC) region of 18,168 bp, and two separated inverted regions of 26,184 bp each. It contains 132 genes, including 86 protein-coding genes, 38 tRNA genes, and 8 rRNA genes. Based on 10 chloroplast genomes data, the maximum likelihood phylogenetic analysis revealed that *B. chinensis* was sister to *Iris* (Bootstrap = 100%) within Iridaceae. This result will be helpful for the conservation and breeding programs of the *B. chinensis*.

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to the genus *Iris* with BS = 100% (Figure 1). The chloroplast genomes resource may be utilized for DNA barcoding, conservation genetics, and breeding of cultivar *B. chinensis* in the future.

**Disclosure statement**

No potential conflict of interest was reported by the author(s).

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**Data availability statement**

The complete chloroplast genome sequence of *Belamcanda chinensis* has been submitted to the GenBank (https://www.ncbi.nlm.nih.gov/genbank/), and the accession number is MW039136. This sequence will be released immediately after process by the NCBI staff. Then, the data that support the findings of this study is openly available in GenBank.

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