

**DETERMINATION OF GENETIC RELATIONSHIPS
BETWEEN SOME SPECIMENTS BELONG TO JIAOGULAN
GENUS (*Gynostemma Blume*) IN BAC KAN PROVINCE BASED
ON ANALYSIS OF DNA INDICATORS**

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Summary

The study was conducted in specimens belong to Jiaogulan genus (*Gynostemma Blume*) which were taken in Bac Kan province. 15 samples were extracted the total DNA and amplified two DNA code indicators which are rbcL and ITS2 of 15/15 samples. Based on the analysis of rbcL and ITS2 indicators, 15 specimens of Jiaogulan in Bac Kan province belong to the *Gynostemma* genus. Based on the results of the ITS2 indicator analysis, it was found that 15 specimens collected in Bac Kan province closest to 3 different species. All specimens of the Jiaogulan with 3 leaflets (G1, G2, G3, G9, G10, G11) are closest to *Gynostemma laxum* species. All specimens of the Jiaogulan with 7 leaflets (G12, G13, G14, G15) are closest to *Gynostemma longipes* species. All specimens of the Jiaogulan with 5 leaflets (G4, G5, G6, G7, G8) are closest to *Gynostemma pentaphyllum* species.

Keywords: *Bac Kan, DNA sequencing, jiaogulan, taxonomy.*