<u>Cite this as:</u> Shu-ming LIU, Shi-jun WANG, Si-yao SONG, Yong ZOU, Jun-ru WANG, Bing-yin SUN, 2017. Characteristic differences in essential oil composition of six *Zanthoxylum bungeanum* Maxim. (Rutaceae) cultivars and their biological significance. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, 18(10):917-920. http://dx.doi.org/10.1631/jzus.B1700232

Characteristic differences in essential oil composition of six *Zanthoxylum bungeanum* Maxim. (Rutaceae) cultivars and their biological significance

Key words: *Z. bungeanum* Maxim cultivars, Essential oil, Characteristic differences, Composition, GC–MS, Cluster Analysis

Research Summary



For six *Z. bungeanum* Maxim cultivars, characteristic differences have been observed in chemical composition and content of essential oil:





- 71 components were identified
- Be classified into 3 groups
- Cultivars have different favorable potential



Innovation Points

• **Research** of chemical composition of essential oil of cultivars, after artificial introduction and cultivation

• Emphasis of characteristic differences among cultivars (Fig.1)

• Summary of different favorable potential activity for different cultivars.





