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Analysis of aroma-active compounds in three sweet osmanthus (*Osmanthus fragrans*) cultivars by GC-olfactometry and GC-MS

Key words: Sweet osmanthus (*Osmanthus fragrans)*, Aroma, Gas chromatography-olfactometry (GC-O), GC-mass spectrometry (GC-MS)

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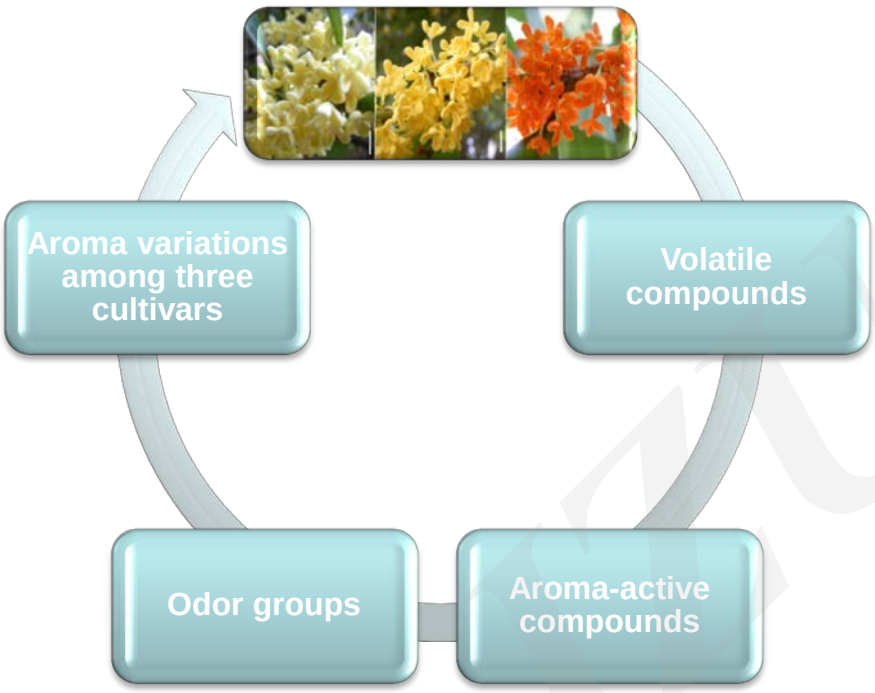
Research Summary

This article mainly focused on the aroma-active compounds which lead to the aroma variation among three cultivar groups of sweet osmanthus from following aspects:



- **Comparing the volatiles of three cultivars by GC-MS**
- **Comparing the aroma-active compounds of three cultivars by GC-O**
- **Classifying the odor groups and analyzing the aroma differences of three cultivars**

Major results and conclusions



- **Aroma-active compounds were not necessarily only the major volatiles: some volatiles with low content also contributed to aroma.**

- **The aroma differences among the three cultivars resulted from variation in the content of different odor groups and in the intensities of aroma-active compounds.**