

# Jasmonic acid is a crucial signal transducer in heat shock induced sesquiterpene formation in *Aquilaria sinensis*

Running title: Jasmonic acid and agarwood sesquiterpene in *Aquilaria sinensis*

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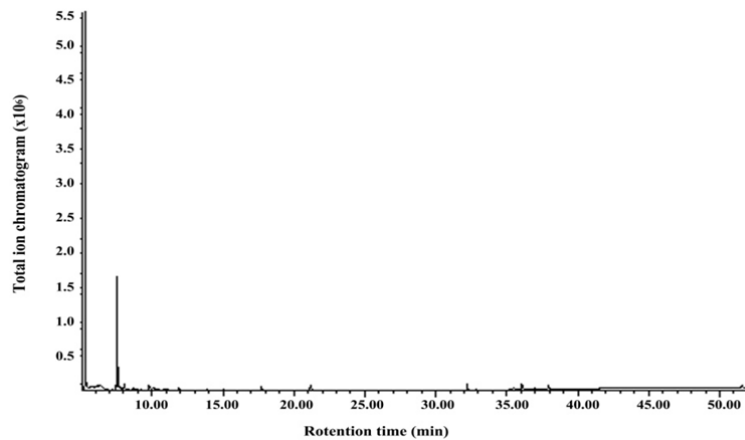
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## Supplementary Data

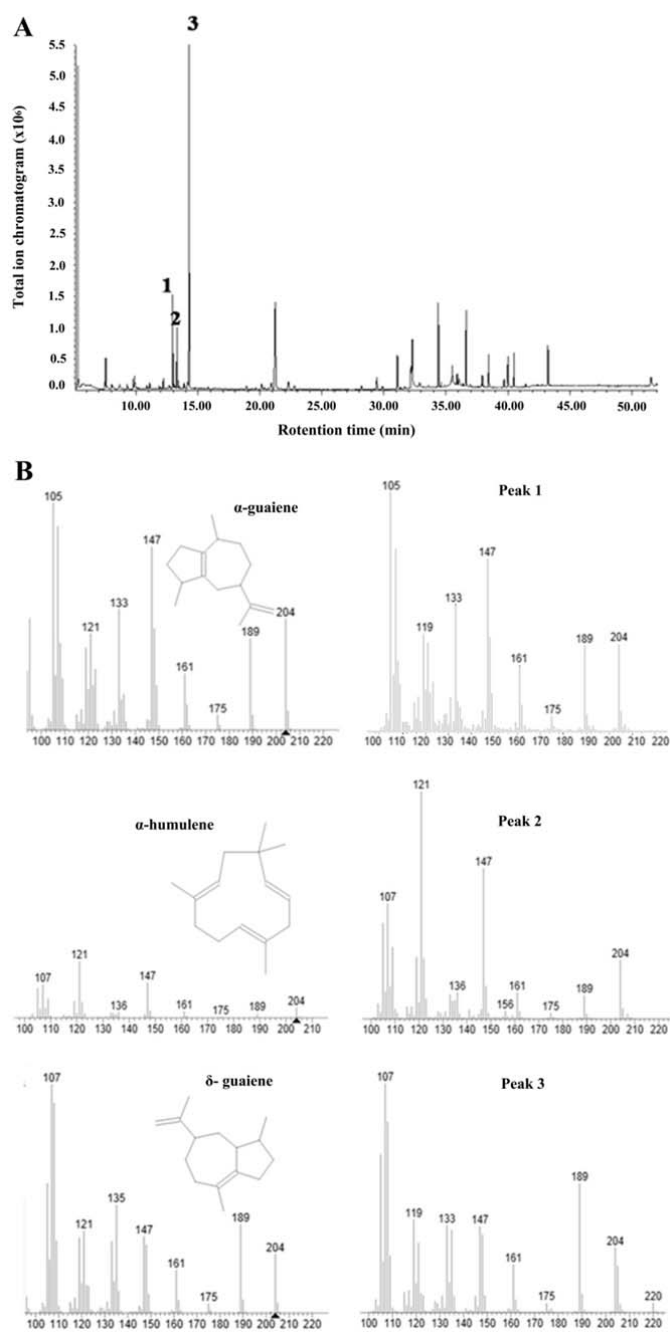
Supplementary Table 1. Primers used in this study.

Gene	Primer name	Sequence (5'-3')
<i>LOX</i>	<i>LOX</i> -f	GTGGTTGCGAGATGACGAA
	<i>LOX</i> -r	CAAGGAATGGCAGGTAGATG
<i>AOS</i>	<i>AOS</i> -f	GTTCAAACACTCAGGGATGC
	<i>AOS</i> -r	AAAAGAGACGCTCGGCTAC
<i>AOC</i>	<i>AOC</i> -f	AGCTCTTCTACACCTTCTACC
	<i>AOC</i> -r	GCCTGCTTCTATCACAATCA
<i>MYC2</i>	<i>MYC2</i> -f	AGTGATCCTGCCACCGCAG
	<i>MYC2</i> -r	GGCCTATTGTTACTCTCCAG
Internal control	<i>GAPDH</i> -f	CTGGTATGGCATTCCGTGTA
	<i>GAPDH</i> -r	AACCACATCCTCTTCGGTGTA

**Supplementary Fig S1. Gas chromatography-mass spectroscopy profiles of sesquiterpene compounds in healthy control sample.** Total ion chromatogram of the products from healthy *A. sinensis* suspension cells.



**Supplementary Fig S2. Gas chromatography-mass spectroscopy profiles of sesquiterpene compounds in healthy control and heat-shock-treated sample.** (A) Total ion chromatogram of the products from heat shock treated *A. sinensis* suspension cells. (B) Mass spectra of the sesquiterpenes and their authentic standards. Peak 1 is  $\alpha$ -guaiene, peak 2 is  $\alpha$ -humulene, and peak 3 is  $\delta$ -guaiene.



**Supplementary Fig S3. GC chromatograph of essential oil of agarwood in healthy and treated samples.** 1- Control, healthy sample; 2- H<sub>2</sub>O<sub>2</sub> treated sample; 3-MeJA treated sample; 4-SA treated sample.

