

SUPPLEMENTARY INFORMATION

Insect (*Thrips hawaiiensis* (Morgan)) change the stereochemical configuration of 1-phenylethanol emitted from tea (*Camellia sinensis*) flowers

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Table S1 Primers of qRT-PCR used in this study.

Gene	Forward primer 5'-3'	Reverse primer 5'-3'
<i>CsLOX1</i>	GCTGACTGGACAACCGATGA	CAACATATGCTTCTATGAAAATGC
<i>CsLOX2</i>	GTTTTGTCAAATCATTCGGT	TTCTTCAAACCTCAAGTTTG
<i>CsLOX3</i>	GGGACAACACTGTATGGG	CCAGAGTCATGAGCAAGGG
<i>CsLOX4</i>	TTCTTGGCATTTCCTCGTA	TCATCCTCGTTCATCCTTGT
<i>CsPri</i>	CCAAAGGTTCGGAATTGTCTATG	GCGCTTTTAGTCATACACCGA
<i>CsGT1</i>	TGAAGAAGGAAGCAGAAGAAGC	GGCTCATGATTCAACCGG
<i>CsGT2</i>	GAGGACATAAGGATTAAAGCGAG	TTTCAACCCACTTAAATATTTCAATA
<i>CsEF1</i>	TTGGACAAGCTCAAGGCTGAACG	ATGGCCAGGAGCATCAAT GACAGT
<i>CsAOS1</i>	GCCTCAAACCCTAAAGTCATCA	GACACGATAACCGCCAGTT
<i>CsAOS2</i>	TCATTGTCCGTCCGATCACT	ACTCATCTCTGCCTTGGTTGTA
<i>CsAOC</i>	GCAGAAGCGGTTGGGAAT	CACCAGTCACAGCGAGATAC
<i>CsOPR1</i>	ACTTGTCTGTAGAGGAGATTGGA	AACCGATTGTAGATGCTGTTCAT
<i>CsOPR2</i>	ATGTTCCACCACCTCCAGTAT	TCATCTACGAGCAAGCCTATATCA

AOC, allene oxide cyclase; *AOS*, allene oxide synthase; *EF1*, encoding elongation factor 1; *GT*, glycosyltransferases; *LOX*, 9/13-lipoxygenase; *OPR*, 12-oxo-phytodienoic acid reductase; *Pri*, β -primeverosidase.

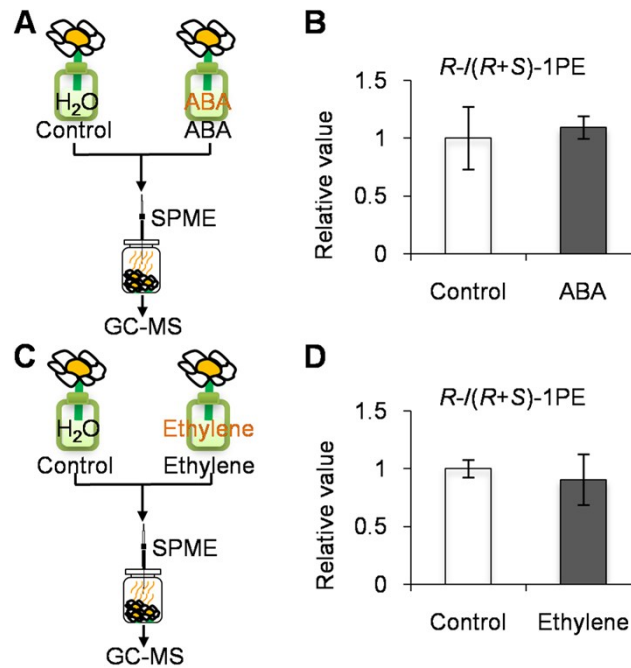


Figure S1 Effect of abscisic acid and ethylene treatments on emitted (*R*)-/(*S*)-1PE ratio in *C. sinensis* flowers in lab experiments.

(A and C) Treatments of *C. sinensis* flowers using ABA and ethylene. Control, untreated flowers. ABA, 0.5 mM abscisic acid treatment; Ethylene, 0.5 mM ethylene treatment. ABA, abscisic acid; GC-MS, gas chromatography-mass spectrometry; SPME, solid-phase microextraction. (B and D) Effects of ABA and ethylene treatments on emitted (*R*)-/(*R*+*S*)-1PE from *C. sinensis* flowers. The ratio of (*R*)-1PE to (*R*+*S*)-1PE in control was set as 1.