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Supplementary material

Feeding experiment using ^{13}C uniform labeled α -linolenic acid supports the involvement of decarboxylation mechanism to give *cis*-jasmane in *Lasiodiplodia theobromae*.

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Figure S1. Proposed biosynthetic pathway to produce *cis*-jasmane

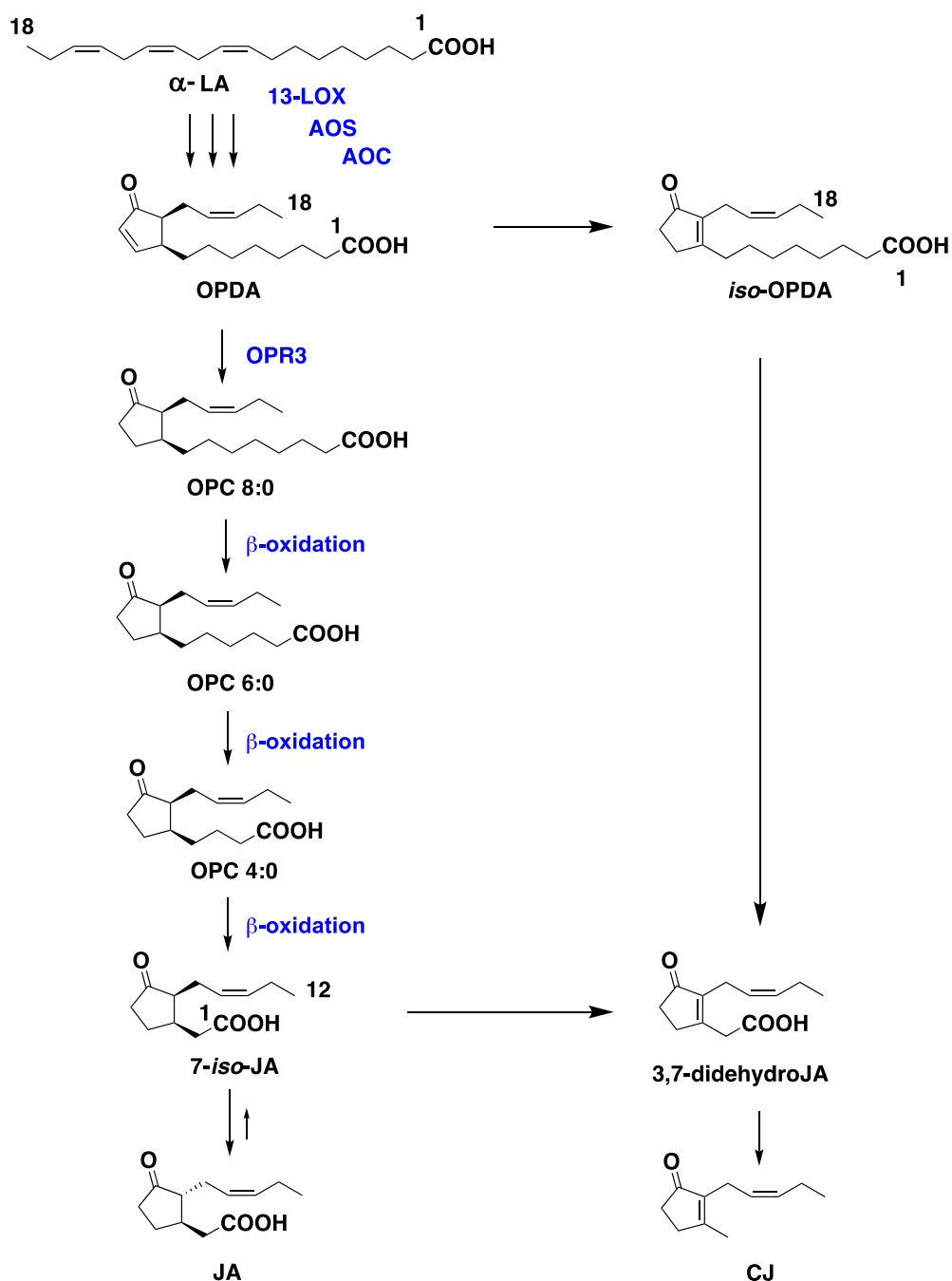


Figure S1. Proposed biosynthetic pathway to produce *cis*-jasmone

LA: linolenic acid, OPDA: 12-oxo-phytodeinoic acid, OPC 8:0 : 3-oxo-2-(2'-[Z]-pentenyl)-cyclopentae-1-octanoic acid, OPC 6:0 : 3-oxo-2-(2'-[Z]-pentenyl)-cyclopentae-1-hexanoic acid : OPC 4:0 : 3-oxo-2-(2'-[Z]-pentenyl)-cyclopentae-1-butanoic acid, JA: jasmonic acid, CJ: *cis*-jasmone, LOX: lipoxygenase, AOS: allene oxide synthase, AOC: allene oxide cyclase.

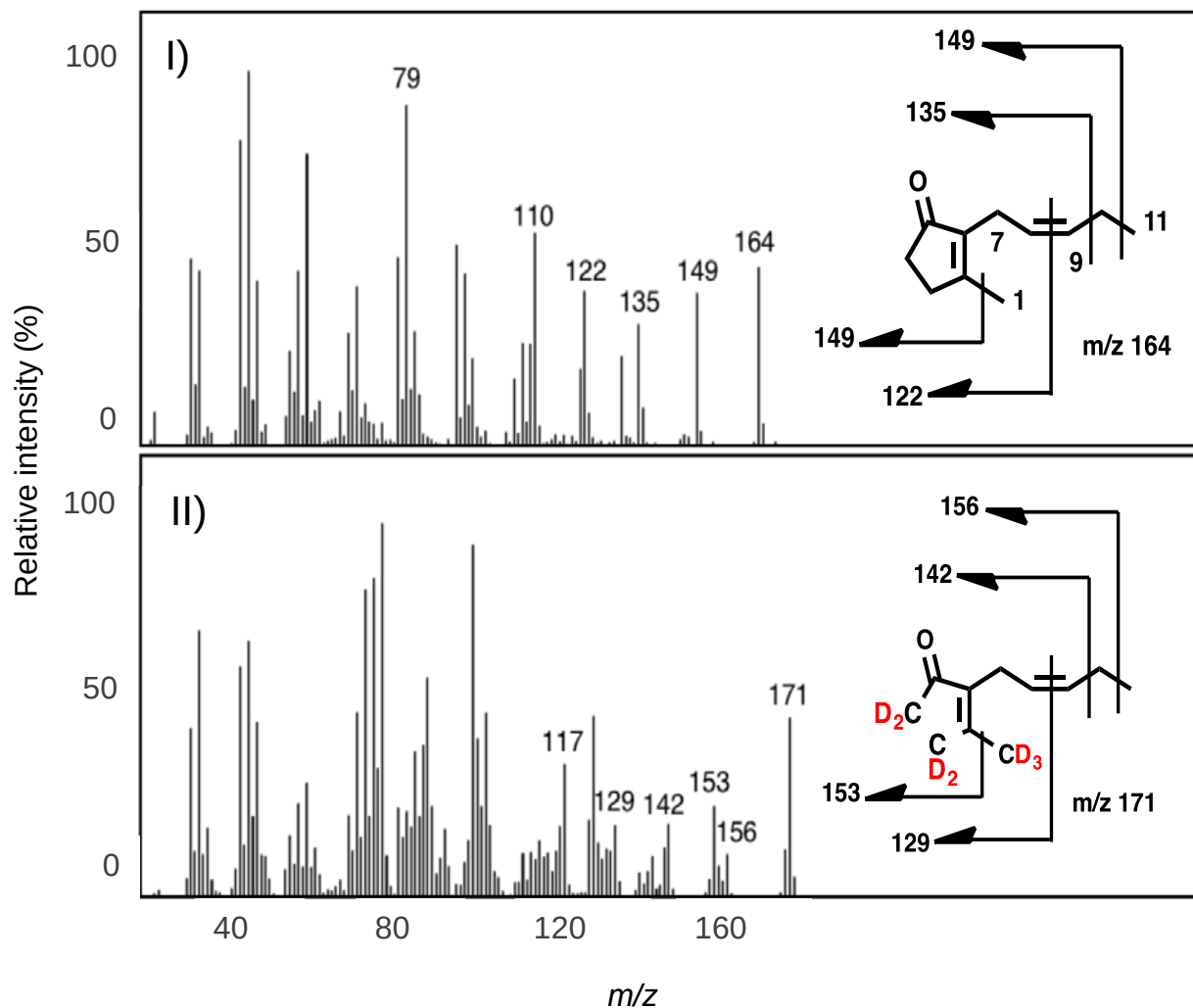


Figure S2. GC-MS analysis of authentic unlabeled and labeled CJs.

GC-MS fragmentation patterns for unlabeled CJ (I) and [$^2H_2$ -4, $^2H_2$ -3, $^2H_3$ -1] CJ (II).

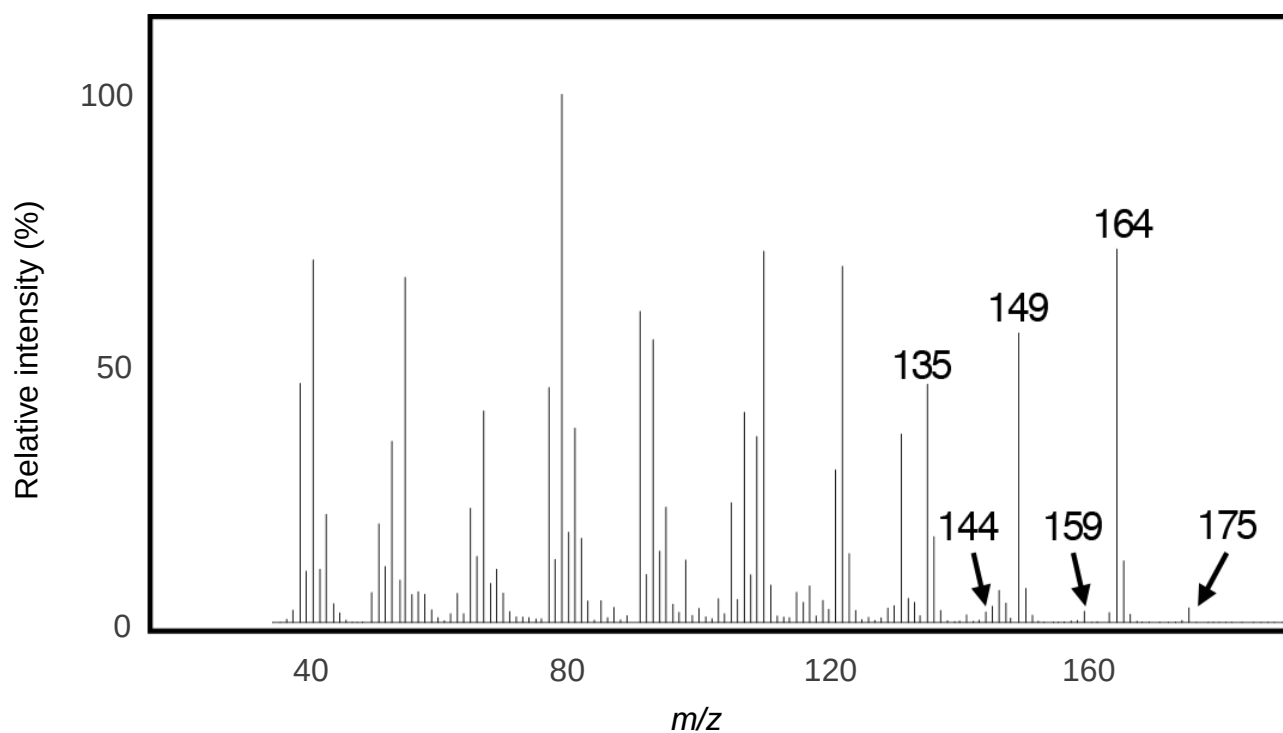


Figure S3. GC-MS analysis of unlabeled and [U- ^{13}C] CJs.

GC-MS fragmentation patterns for the peak with a retention time of 15.8 min in GC chromatograph of Figure 2C, whose MS range was set from m/z 30 to 200.