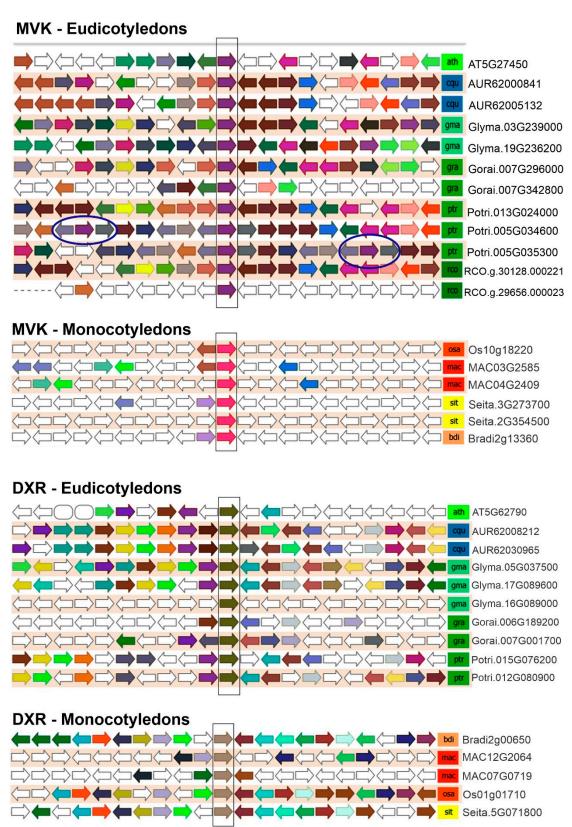
Supplementary Materials

Supplementary Table 1. Primer sequences used for RT-qPCR analyses

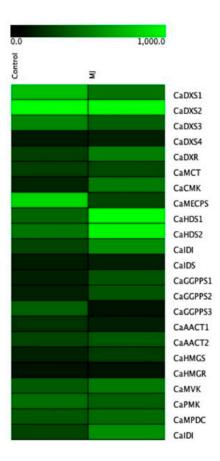
Gene ID	Primer sequence	Size (bases)	Tm (°C)	Amplicon (bp)	Efficiency
CaMVK	F: ATGTTTCCCTCCGCTTCC	18	59,3	95	97%
	R: TCCAACCGGCCAAGAAAAT	19	59,1		
CaDXR	F: CCTGTTCTCCCCTACGACT	19	59,3	127	92%
	R: GCCTCCATTGTCCTTCCT	18	59,1		
CaGAPDH	F: AGGCTGTTGGGAAAGTTCTTC	21	59,5	70	98%
	R: ACTGTTGGAACTCGGAATGC	20	58.4		

Supplementary Figures

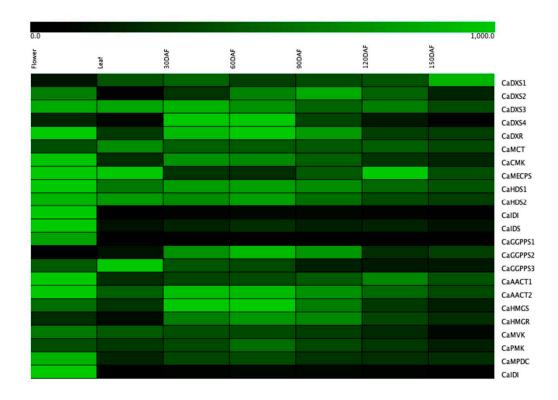


Supplementary Figure 1. Schematic representation of genomic regions containing MVK or DXR genes. We highlighted in a rectangle DXR and MVK. The figure was based on the "Synteny plot" tool of Plaza 4.0. Genes with the same color have similar function. Eudicot MVK genes share

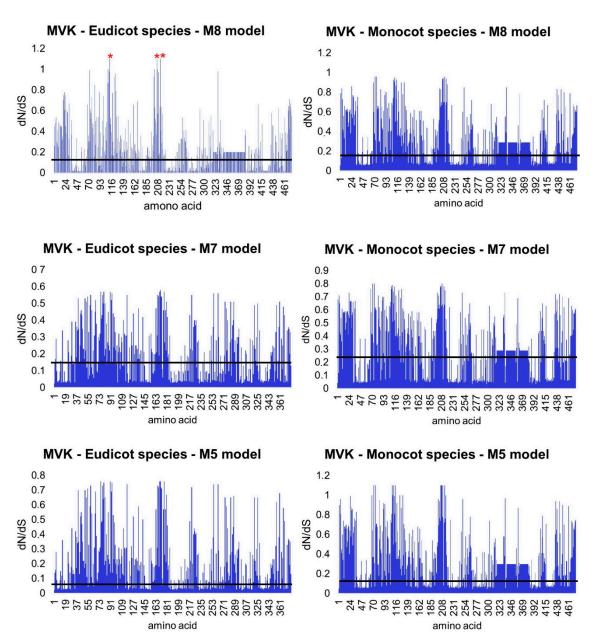
similar genomic neighborhood. We circled the *MVK* tandem duplication in *P. trichocarpa*. In monocots, genomic neighborhood among MVK genes has less collinear genes. In *DXR*, we also observe high similar genomic neighborhood, suggesting WGD events in soybean (Glyma) and *P. trichocarpa* (Potri). Only one gene in soybean (Glyma.16G089000) and one in cotton (Gorai.006G189200) do not share a significative genomic neighborhood, suggesting that these genes arose from segmental duplication.



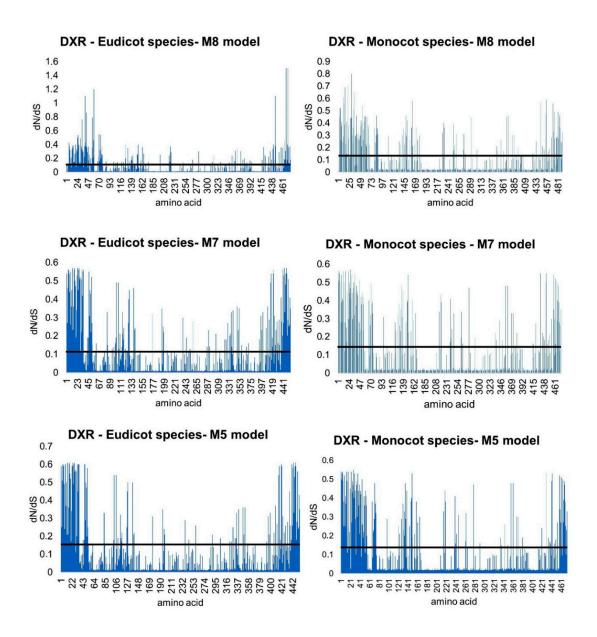
Supplementary Figure 2. RPKM values of *C. arabica* terpenoid pathway genes under methyl jasmonate application. Legend: C – control; MJ – methyl jasmonate application.



Supplementary Figure 3. RPKM values of *C. arabica* terpenoid pathway genes in flowers, leaves and along fruit development. Legend: DAF – perisperm in days after flowering.



Supplementary Figure 4. Distribution of dN/dS over individual sites in MVK, based on Selecton statistics. The horizontal line represents the average dN/dS. Asterisks (*) represent statistical significance in Bayesian analysis (p < 0,05).



Supplementary Figure 5. Distribution of dN/dS over individual sites in *DXR*, based on Selecton statistics. The horizontal line represents the average dN/dS.