

Supplementary information

GGE-Biplot based transcriptional analysis of 7 genes involved in steroidal glycoalkaloid biosynthesis in potato (*Solanum tuberosum* L.)

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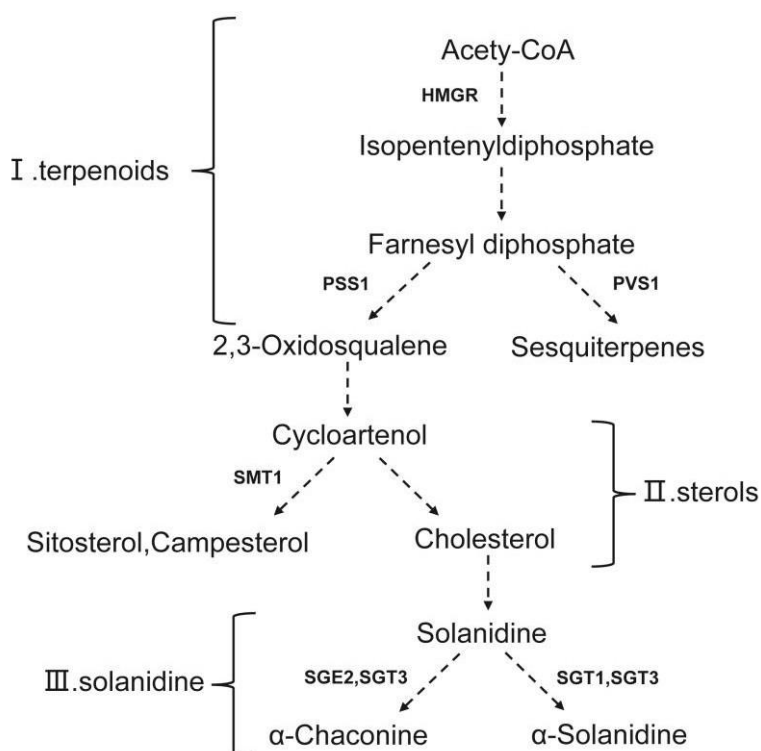


Figure S1. Simplified biosynthetic pathway for steroidal glycoalkaloids. The biosynthetic pathway is presented from acetyl-CoA to steroidal glycoalkaloids with additional pathways included that use the same substrate. Dashed arrows indicate multiple enzymatic steps. HMGR (3-hydroxy-3-methylglutaryl coenzyme A reductase 1&2), PSS1 (Squalene synthase), PVS1 (Vetispiradiene sesquiterpene cyclase), SGT1 (Solanidine galactosyltransferase), SGT2 (Solanidine glucosyltransferase) and SGT3 (Rhamnosyltransferase).

Table S1. Primer information for qRT-PCR

ID	Primer
hmg1-F	CTTCTCGTAAGGTGGCGTGA
hmg1-R	AACCCAATCCCAAAGAAACC
hmg2-F	TGGTGCCCTTGGTGGTTTC
hmg2-R	TTGCCATCATTTACAGCCTCC
pss1-F	TCTCTCGTAGTTTTGCTCTCGTC
pss1-R	CCTCAACAGTGTCAAGTGCTCG
pvs1-F	GTGAAGTATCAAGGTGGTGGAAAG
pvs1-R	AGGTTCAGCATACACCCCCATC
sgt1-F	AAGCCACAATCCTCACTACCC
sgt1-R	AGGCAACCCAACTTCAGCAG
sgt2-F	TACCCACCACAATGCTTCC
sgt2-R	ATCCCTTCAGGCAACCCA
sgt3-F	AGAGGAGTAAAAGGGTGGCAT
sgt3-R	AGCAAACAAAGAGAACGGAGT
actinI-F	AGGAGCATCCTGTCCTCCTAA
actinI-R	CACCATCACCAGAGTCCAACA