

Table S3. Metabolites Associated with Acetogenin biosynthesis and Fatty Acid Oxidation Pathways showing differential accumulation between Peel and Flesh Tissues of pawpaw fruit.

Category	Compound Name	Tissue part
Oxylipins (strong similarity)	13(S)-HOT	Peel higher
Highly oxygenated fatty acids	9,12,13-Trihydroxy-10,15-octadecadienoic acid	Peel higher
Hydroxy fatty acids	12-Hydroxyoctadecanoic acid	Peel higher
Hydroxy fatty acids	2-Hydroxyhexadecanoic acid	Peel higher
Hydroxy fatty acids	10,16-Dihydroxyhexadecanoic acid	Peel higher
Hydroxy fatty acids	9,16-Dihydroxypalmitic acid	Peel higher
Hydroxy fatty acids	12-Hydroxydodecanoic acid	Peel higher
Hydroxy fatty acids	Hydroxy ricinoleic acid	Peel higher
Sphingoid/amino alcohol lipids	Hexadecylsphingosine	Peel higher
Sphingoid/amino alcohol lipids	2-Aminohexadecane-1,4-diol	Peel higher
Basic long-chain fatty acids	Hexadecanoic acid	Peel higher
Basic long-chain fatty acids	Myristoleic acid	Peel higher
Acetogenin (true)	Squamocin K	Flesh higher
Oxylipins (strong similarity)	9,10,13-TriHOME	Flesh higher
Oxylipins (strong similarity)	9,12,13-TriHOME	Flesh higher
Oxylipins (strong similarity)	13(S)-HODE	Flesh higher
Oxylipins (strong similarity)	9(S)-HODE	Flesh higher
Oxylipins (strong similarity)	9(S)-HOT	Flesh higher
Highly oxygenated fatty acids	6,9,10-Trihydroxyoctadec-7-enoic acid	Flesh higher
Highly oxygenated fatty acids	9-Hydroxy-12-oxo-10(E),15(Z)-octadecadienoic acid	Flesh higher
Highly oxygenated fatty acids	9-Hydroxy-13-oxo-10-octadecenoic acid	Flesh higher
Highly oxygenated fatty acids	9,12,13-Trihydroxy-10-octadecenoic acid	Flesh higher
Hydroxy fatty acids	3-Hydroxyoctadecanoic acid	Flesh higher
Hydroxy fatty acids	Hydroxyundecenoic acid sulfate	Flesh higher
Sphingoid/amino alcohol lipids	Sphinganine	Flesh higher
Sphingoid/amino alcohol lipids	Phytosphingosine	Flesh higher
Sphingoid/amino alcohol lipids	3-Dehydrosphinganine	Flesh higher
Sphingoid/amino alcohol lipids	Tetradecasphinganine	Flesh higher
Sphingoid/amino alcohol lipids	2-Aminooctadecane-1,4-diol	Flesh higher
Sphingoid/amino alcohol lipids	2-Aminotetradecane-1,4-diol	Flesh higher
Basic long-chain fatty acids	Octadecanoic acid	Flesh higher
Basic long-chain fatty acids	Tetracosanoic acid	Flesh higher
Basic long-chain fatty acids	Cetostearic acid	Flesh higher