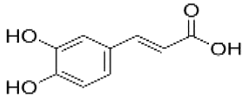
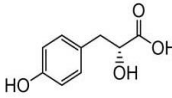
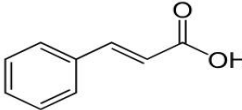
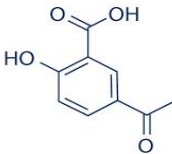
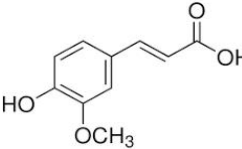
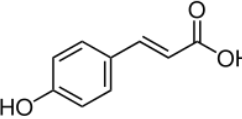
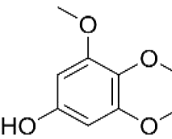
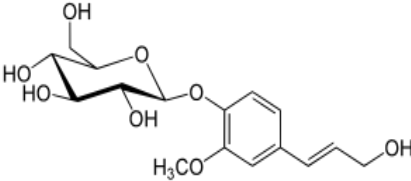
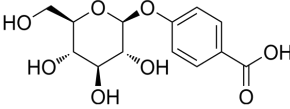
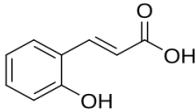
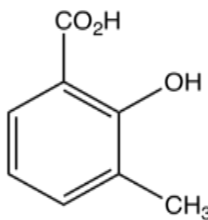
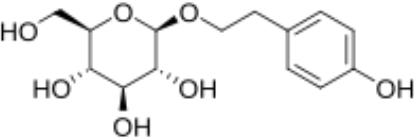
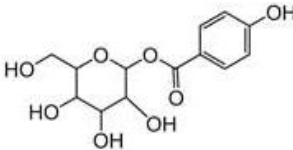
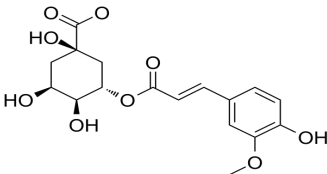
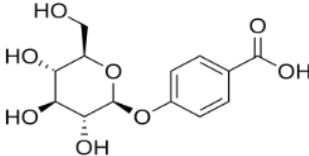
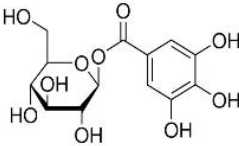
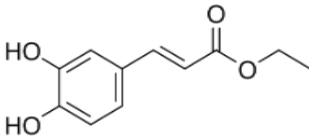
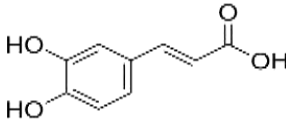
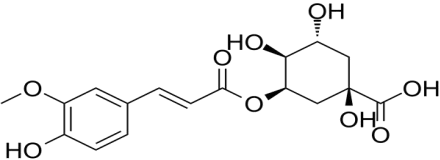
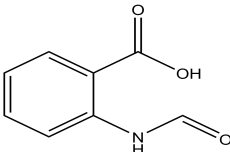
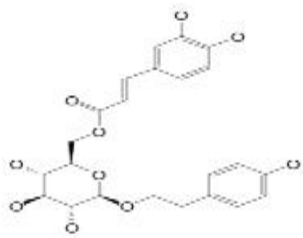
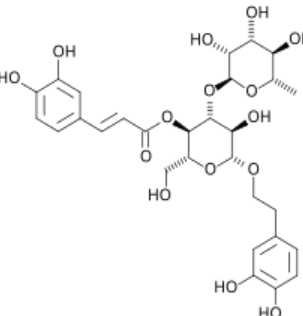
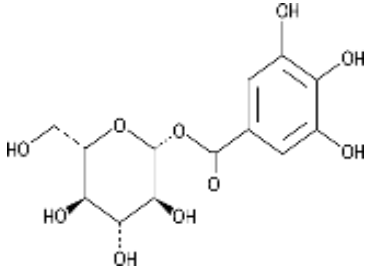
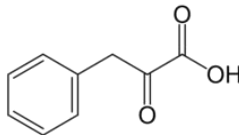
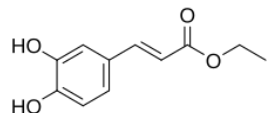
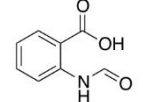
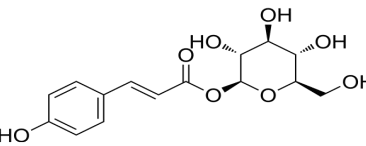
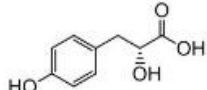


Supplementary Table S4. Differential Phenolic compounds regulated in Green Coffee Beans at different altitudes.

ID	Compounds	Class	Chemical Formula	Chemical Structure
HA1 vs. LA3				
mws2212	Caffeic acid	Phenolic acids	C ₉ H ₈ O ₄	
Lmrn001951	2-Hydroxy-3-(4-Hydroxyphenyl) Propanoic Acid*	Phenolic acids	C ₉ H ₁₀ O ₄	
HA1 vs. MA2				
MWS20194	Cinnamic acid	Phenolic acids	C ₉ H ₈ O ₂	
MWSmce001	5-Acetylsalicylic acid	Phenolic acids	C ₉ H ₈ O ₄	
mws2208	Ferulic Acid	Phenolic acids	C ₁₀ H ₁₀ O ₄	
pme1439	p-Coumaric acid	Phenolic acids	C ₉ H ₈ O ₃	
MWSmce329	Antiarol;3,4,5-Trimethoxyphenol	Phenolic acids	C ₉ H ₁₂ O ₄	
Hmsn002272	Coniferin	Phenolic acids	C ₁₆ H ₂₂ O ₈	
Hmtn001302	4-beta (Glucosyloxy) benzoic acid*	Phenolic acids	C ₁₃ H ₁₆ O ₈	
Lmmn001643	2-Hydroxycinnamic acid*	Phenolic acids	C ₉ H ₈ O ₃	

MWS2058	3-Methylsalicylic Acid	Phenolic acids	C ₈ H ₈ O ₃	
Ymjm000148	Salidoside	Phenolic acids	C ₁₄ H ₂₀ O ₇	
Zbfn002690	1(4Hydroxybenzoyl) Glucose; 25545-07-7	Phenolic acids	C ₁₃ H ₁₆ O ₈	
Zbjn003801	1-O-(6'-O-feruloyl) glucoside-3-O-Caffeoyl Quinic Acid	Phenolic acids	C ₂₆ H ₂₆ O ₂	
Zmhn001358	4-O-Glucosyl-4-hydroxybenzoic acid	Phenolic acids	C ₁₃ H ₁₆ O ₈	
Zmhn001926	1-O-Salicyloyl-β-D-glucose*	Phenolic acids	C ₁₃ H ₁₆ O ₈	
mws2184	Ethyl caffeate	Phenolic acids	C ₁₁ H ₁₂ O ₄	
mws2212	Caffeic acid	Phenolic acids	C ₉ H ₈ O ₄	
pmb2554	5-O-Feruloyl quinic acid glucoside*	Phenolic acids	C ₁₇ H ₂₀ O ₉	
pme3083	2-(Formylamino) benzoic acid	Phenolic acids	C ₈ H ₇ NO ₃	

MWS20194	Cinnamic acid	Phenolic acids	C ₉ H ₈ O ₂	
MWSmce329	Antiarol;3,4,5-Trimethoxyphenol	Phenolic acids	C ₉ H ₁₂ O ₄	
Hmln002149	Acteoside Verbascoside	Phenolic acids	C ₂₉ H ₃₆ O ₅	
Hmln003529	Benzyl β-primeveroside	Phenolic acids	C ₁₈ H ₂₆ O ₀	
MWS2058	3-Methylsalicylic Acid	Phenolic acids	CH ₃ C ₆ H ₃	
MWS3149	3-Methoxybenzoic acid	Phenolic acids	C ₈ H ₈ O ₃	
WaYn002313	Homosyringic Acid 4'-O-Glucoside	Phenolic acids	C ₁₃ H ₁₆ O ₈	
Ynmjm000146	p-Hydroxyphenyl 6-O-(E)-caffeoyl-β-D-glucopyranoside*	Phenolic acids	C ₅₂ H ₅₅ O ₆ ⁺	

Ymjm000147	p-Hydroxyphenyl 6-O-(E)-caffeoyl-β-D-allopyranoside*	Phenolic acids	C ₅₂ H ₅₅ O ₂₆ ⁺	
Zbln003174	verbascoside glycoside	Phenolic acids	C ₂₉ H ₃₆ O ₁₅	
Zmhn001926	1-O-Salicyloyl-β-D-glucose*	Phenolic acids	C ₁₃ H ₁₆ O ₁₀	
mws0159	Phenylpyruvic acid	Phenolic acids	C ₉ H ₈ O ₃	
mws2184	Ethyl caffeate	Phenolic acids	C ₁₁ H ₁₂ O ₄	
pme3083	2(Formylamino)benzoic acid	Phenolic acids	C ₉ H ₉ NO ₃	
pmn001419	1-O-p-Coumaroyl-β-D-glucose*	Phenolic acids	C ₁₅ H ₁₈ O ₈	
Lmrn001951	2-Hydroxy-3-(4-Hydroxyphenyl) Propanoic Acid*	Phenolic acids	C ₉ H ₁₀ O ₄	
Lmsn003628	6'-O-Sinapoylsucrose	Phenolic acids	C ₂₃ H ₃₂ O ₁₅	