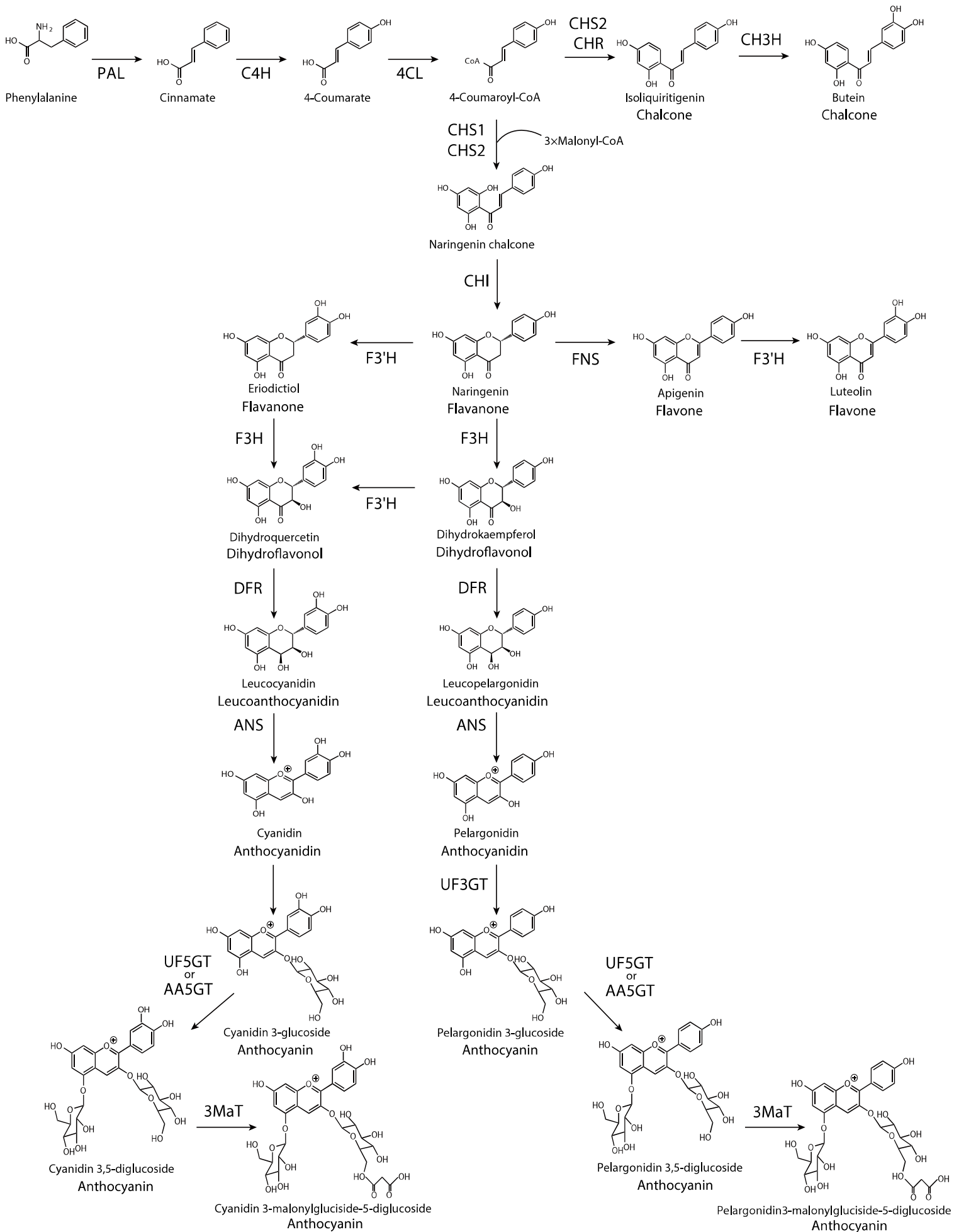


# Flavonoid Biosynthetic Pathways



PAL: Phenylalanine ammonia lyase, C4H: Cinnamate 4-hydroxylase, 4CL: 4-coumarate-CoA lyase, CHS: Chalcone synthase, CHR: Chalcone reductase, CH3H: Chalcon 3-hydroxylase  
 CHI: Chalcone isomerase, FNS: Flavone synthase, F3H: Flavanone 3-hydroxylase, F3'H: Flavonoid 3'-hydroxylase, DFR: Dihydroflavonol 4-reductase, ANS: Anthocyanidin synthase,  
 UF3GT: UDP-glucose dependent flavonoid 3-glucosyltransferase, UF5GT: UDP-glucose dependent flavonoid 5-glucosyltransferase,  
 AA5GT: Acyl-glucose dependent anthocyanin 5-glucosyltransferase, 3MaT: malonyl CoA:anthocyanin 3-O-glucoside-6"-O-malonyltransferase