## ISOFLAVONOID BIOSYNTHESIS 3,9-Dihydroxy-3,6a,9-Trihydroxy- 4-Dimethylallylglycinol 2'-Hydroxydaidzein pterocarpan pterocarpan **▶**©⁵ 1.3.1.51 ▶**○** 1.14.1385 **▶○** Glyceollin I <del>-</del>| 2.5.1.36 |-2'-Hydroxy-2,3-dihydrodaidzein CYP81E1/E7 CYP93A 3,9-Dihydroxypterocarpen Glyceocarpin **▶**© Coumestrol 2.5.1.36 **▶**♥ 1.14.1385 **▶**♥ Glyceollin II 9-Demethylmunduserone 7,4'-Dihydroxy-**-**⊭ത്: flavone K13262 🗝 Isoformononetin 0 7-Hydroxy-2',4',5'-trimethoxyisoflavone Flavonoid biosynthesis K13263 Formononetin 1.14.1385 **►○** Glyceollin III ©27-O-glucoside-**▶**♥⁵(-)-Vestitol K13266 6"-O-malonate Formononetin 7-O-glucoside 7,2'-Dihydroxy-4'-methoxy-isoflavanol 2,7,4'-Trihydroxy-isoflavanone Liquiritigenin K13263 —eo4(-)Medicarpin-3-O-glucoside-6'-O-malonate **₩७**° 42.1.139 K13265 K13257 K13258 K13259 K13260 Formononetin (-)-Medicarpin-3-O-glucoside 2'-Hydroxy-formononetin (-)-Medicarpin Daidzein (-)-Vestitone CYP81E1/E7 CYP930 K13259 Rotenone 2',7-Dihydroxy-4',5'-methylenedioxy-(+)-Sophorol **PO**: K13258 (+)-6a-Hydroxy-maackiain\_\_\_\_ Pseudobaptigenin 2,7-Dihydroxy-4'-methoxy-K13260 1.14.1352 isoflavanone **₩©** 21.1270| K13267 (+)-Maackiain Calycosin CYP81E9 CYP81E1/E7 CYP71D9 Daidzein ►©17-O-glucoside-6"-O-malonate ♣egs(-)-Maackiain 3-O-glucosyl-6"-O-malonate K05281 C10302 (-)-Maackiain-3-O-glucoside (-)-Sophorol (-)-Maackiain Daidzein 7-O-glucoside 2,6,7,4'-Tetrahydroxy-isoflavanone Glycitein Glycitein 7-O-glucoside-6"-O-malonate K13257 K13263 K13264 C14536 6-Hydroxydaidzein 6,7,4'-Trihydroxy-flavanone CYP93C Glycitein 7-O-glucoside 📂🍑 2'-Hydroxygenistein Apigenin CYP81E1/E7 K13262 **▶**© Prunetin 1.3.1.46 ► 2,3-Dihydrobiochanin A K13077 CYP93B Biochanin A Biochanin A 7-O-glucoside Naringenine **P**2025 Biochanin A K13258 K13259 7-O-glucoside-6"-O-malonate 2-Hydroxy-2,3-dihydrogenistein Genistein 1.14.1352 **→**©°Pratensein CYP81E9 K13260 📂💇2'-Hydroxybiochanin A CYP81E1/E7 K13263 K13264 **-►**O°2Genistein 7-O-glucoside-6"-O-malonate Genistein 7-O-glucoside 00943 11/19/13 (c) Kanehisa Laboratories