**MVA pathway**

**(Cytosol)**

- Acetyl-CoA
  - AACT
  - Acetoacetyl-CoA
  - 3-Hydroxy-3-methylglutaryl-CoA
  - HMG-CoA Reductase (HMGR)
  - Mevalonate (MK)
  - Mevalonate-5-phosphate (PMK)
  - Mevalonate-5-diphosphate (MVD)

**IPP pathway**

- DMAPP
  - FPP
  - Sesquiterpene (C15)
  - Triterpene (C30)

**MEP pathway**

**(Plastid)**

- Pyruvate + 5-glycerolphosphate 3-phosphate
  - DXS
    - 1,3-Dihydroxyacetone 5-phosphate (DXR)
    - 2-C-methyl-D-erythritol 4-phosphate (MCT)
    - 4-Cymene 5-phosphate (4-CMP)
    - 2-C-methyl-D-erythritol 2,4-cyclodiphosphate (CMK)
    - 2-Phosphomevalonate-4-cymene 5-phosphate (2-PMP)
    - 2-C-methyl-D-erythritol 2,4-cyclodiphosphate (CMT)
    - 2-Phosphomevalonate-4-cymene 5-phosphate (2-PMP)
    - 2-C-methyl-D-erythritol 2,4-cyclodiphosphate (CMK)
    - 2-Phosphomevalonate-4-cymene 5-phosphate (2-PMP)
    - 2-C-methyl-D-erythritol 2,4-cyclodiphosphate (CMK)

**Monoterpenoid (C10)**

- Diterpenoid (C20)
  - Tetraterpenoid (C40): Carotenoid