## TERPENOID BACKBONE BIOSYNTHESIS Glycolysis c. D-Glyceraldehyde \_\_ 3-phosphate Acetyl-CoA°**Ö⁴** pyruvate<sup>c</sup>©<sup>22</sup> K00626 K01662 Mevalonate pathway MEP/DOXP pathway c. 73-1-Deoxy-D-xylulose 5-phosphate 🍄²Acetoacetyl-CoA K00099 K01641 2-C-Methyl-D-erythritol 4-phosphate 3-Hydroxy-3-methyl-glutaryl-CoA K00991.. c 4-(Cytidine 5'-diphospho)-2-C-methyl-D-erythritol K00021 K00054 K00919 c%-2-Phospho-4-(cytidine 5'-diphospho)-2-C-methyl-D-erythritol 🌣 Mevalonate K01770... K18689 K00869 ∘ 32-C-Methyl-D-erythritol $^{2}\mathbf{\Phi}^{7}$ Mevalonate-5P 2,4-cyclodiphosphate K03526 K18690 K00938... K03526 1-Hydroxy-2-methyl-K17942 K01597 K03527 Mevalonate-3,5PP°\*\* 2-butenyl 4-diphosphate Mevalonate-5PP K06981 K03527 Isopentenyl-P Dimethylallyl-PP 04 K01823 K12742 2.5.1.20 **₽**©Isoprene Rubber Isopentenyl-PP Zeatin biosynthesis K00787.. (Z,Z)-Famesyl-PP Sesquiterpenoid and triterpenoid biosynthesis Monoterpenoid biosynthesis Geranyl-PP Decaprenyl-PP Polypreny-PP 2.5.1.88 (Z,E)-Famesyl-PP Diterpenoid biosynthesis trans-Farnesol (E,E)-Famesyl-P Farnesal Carotenoid biosynthesis (E,E)-Farnesyl-PP Indole diterpene alkaloid biosynthesis K15890.. K15793 Geranyl geranyl-PP K05906 K05906 K00804... Steroid biosynthesis Farnesyl<sup>c</sup> cysteine K15888 K05356 K05356 K05355 K15889 K06013 K05355 K00587 K05954... K08658 Hexaprenyl-PP Protein C-terminal S-farnesyl-L-cysteine S-famesyl protein Protein C-terminal S-farnesyl-L-cysteine methyl ester K00805 Nona-prenyl-PP Phytyl-PP tritrans,heptacis-Undecaprenyl-PP Carotenoid biosynthesis Heptaprenyl-PP N-Glycan biosynthesis K02523 Dehydro Dolichol-PP Octaprenyl-PP dolichol-PP Ubiquinone and other terpenoid-quinone biosynthesis C04574 K12504... C 1032 Decaprenyl-PP di-trans,poly-cis-Undecaprenyl-PP 00900 4/8/15 (c) Kanehisa Laboratories