TERPENOID BACKBONE BIOSYNTHESIS Glycolysis .X.aD-Glyceraldehyde 3-phosphate Acetyl-CoA° pyruvate^c©2 Mevalonate pathway MEP/DOXP pathway 71-Deoxy-D-xylulose 5-phosphate **©**ºAcetoacetyl-CoA K01641 2-C-Methyl-D-erythritol 4-phosphate o 3-Hydroxy-3-methyl-glutaryl-CoA 2-C-methyl-D-erythritol K00054 K00021 2-Phospho-4-(cytidine 5'-diphospho)-2-C-methyl-D-erythritol *Mevalonate K18689 cos2-C-Methyl-D-erythritol $^{2}\mathbf{\Phi}^{7}$ Mevalonate-5P 2,4-cyclodiphosphate K18690 K03526 1-Hydroxy-2-methyl-K17942 Mevalonate-3,5PP°** 2-butenyl 4-diphosphate Mevalonate-5PP Isopentenyl-P Dimethylallyl-PP 2.5.1.20 04 K12742 **₽**©Isoprene Rubber Isopentenyl-PP Zeatin biosynthesis (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 (E,E)-Famesyl-P Farnesal trans-Farnesol Carotenoid biosynthesis |||||(E,E)-Farnesyl-PP K15890... Indole diterpene alkaloid biosynthesis K15793 Geranyl geranyl-PP Steroid biosynthesis Farnesyl^c cysteine K05355 K05355 Hexaprenyl-PP Protein C-terminal S-farnesyl-L-cysteine S-famesyl protein Protein C-terminal S-farnesyl-L-cysteine methyl ester Nona-prenyl-PP Phytyl-PP tritrans,heptacis-Undecaprenyl-PP Carotenoid biosynthesis Heptaprenyl-PP N-Glycan biosynthesis Dehydro dolichol-PP Dolichol-PP Octaprenyl-PP Ubiquinone and other terpenoid-quinone biosynthesis COTTA C1032 Decaprenyl-PP di-trans,poly-cis-Undecaprenyl-PP 00900 4/8/15 (c) Kanehisa Laboratories