## METHANE METABOLISM Methane CoM-S-S-CoB Ribulose-P pathway Formaldehyde **₽** D-Arabino-Hex-3-ulose-6P D-Xylulose-5P K03388. °**♥**°D-Ribulose-5P K16157... K10944... Methanogenesis **©**°Coenzyme B Pentose phosphate D-Fructose-6P Methanol \ K14080 K17100 pathway K00577.. K14081 Methyl-CoM Coenzyeme M Xylulose-P pathway Trimethylamine metabolism K03841... D-Glycer-aldehyde-3P K14028.. K14082 K14082 K14082 Sulfur K16178 K16176 K16179 K16177 K17066 metabolism K00863 K01623... Trimethylamine-D-Fructose-1,6-P2 Glycerone Glycerone-P N-oxide K18277 K00317 🗠 Methylamine Glycine, serine and threonine metabolism Dimethylamine Trimethylamine 1.6.6.9 Folate COSP COOPS biosynthesis °**Q**°Glycerate-3P 4.1.2.32 1.5.99.5 2.1.1.21 L-Serine 3-Phosphono-3-Phosphoserine K08685.. oxypyriivate N-Methyl-L-glutamate COMP1 Formaldehyde 🔻 Tetrahydrofolate K00600 K10713... K01834 K15633... <u>coo</u>γ€:] — Carbon fixation 5,10-Methylene-tetrahydrofolate ТЧМНТФ K03396 Glycine 👺 K10714 K00600 S-Hydroxy-methyl-N5-Formyl-THMPT \_ 5,10-Methylene-Serine pathway Formyl-MFR K13942 glutathione $\Phi^{\epsilon}$ THMPT Hydroxy-K00319 K00320 pýruvaté D-Glycerate Glyoxylate 🛣 **⊯⊘**Glycerate-2P 5-Methyl-THMPT 5,10-Methenyl-THMPT K17067... Methanofuran 🗞 (MFR) Glyoxylate and dicarboxylate K00440... K00440... K00148 metabólism F420 F420H2 F420 Coenzyme F420H2 K08691 K01689 S-Formyl-cos K00200... K08692.. K00024 Acetyl-CoA pathway K01070 K00200.. L-Malate Oxaloacetate Malyl-CoA K00192... Phosphoenol-K00193... K00122... pyruvate K03518... Acetyl-CoA CO2 Pyruvate Formate Acetylphosphate Acetate K05299 Glyoxylate and dicarboxylate metabolism K00625.. K00925 Nitrogen metabolism Coenzyme M biosynthesis Coenzyme F420 biosynthesis 7,8-Didemethyl-5-Amino-Phosphoenol-(2R)-3-Sulfolactate 8-hydroxy-5-deazariboflavin 6-ribitylaminouracil Coenzyme F420 pyruvate Sulfoacetaldehyde Riboflavin K05979 K13039. C@74 metabolism Coenzyme M 3-Sulfopyruvate Coenzyme F420-0 Coenzyme F420-1 (2R)-Phosphosulfolactate K14940 4-Hydroxyphenylpyruvate 55(2S)-Lactyl-2-diphospho-5'-guanosine (2S)-2-Phospholactate Coenzyme F420-3 Coenzyme B biosynthesis 7-Mercaptoheptanoyl-(-)-threo-Iso(homo)2citrate (-)-threo-Iso(homo)3citrate (R)-(Homo)2citrate (R)-(Homo)3citrate 7-Oxoheptanoate threonine Lysine K10977 K16792... K10977 K16792... biosynthesis 2-Oxosuberate 7-Mercaptoheptanoate Coenzyme B cis-(Homo)2aconitate 2-Oxopimelate cis-(Homo)3aconitate 2-Oxoadipate 00680 6/9/15 (c) Kanehisa Laboratories