PYRIMIDINE METABOLISM PRPP Pentose phosphate pathway **6000**19 Dihydro-_**ு**UDP-glucose (extracellular) K17828... 3.6.1.8 Orotidine-5P orofate N-Carbamoyl P9301_05951 K00226 Pseudouridine-5'-phosphate 2',3'-Cyclic UMP L-aspartate 3.6.1.8 **├─⊙** <u>Прррр</u> pyrD 3'-UMF UTP K01518 K01511... O Pseudouridine (extracellular) P9301_13921 K01119... K01510... Carbamoyl-P **▼** UTP K13800... K17722... rpoZ... β-Alanine metabolism **FO**: K01240 **▲** UDP 3-Ureidoβ-Alanine Uridine Dihydrouracil K01510... carA... propionate upp... 3.6.1.39 dcd Arginine Malonate Barbiturate -Glutamine K01513... biosynthesis | 1.1799.4|**--▶°⊙≪**pyrG (extracellular) 3-Oxo-3-ureido-K01513... propanoate **Ò**°Urea 3.6.1.8 codA K01510. Ureidoacrylate ₩ RNA K13800.. Alanine, aspartate and ytosine K09020 glutamate metabolism rpoZ... cmk K10213 CTP Cytidine Carbamate Malonate-3.2.2.10 semialdehyde K01119... K01119.. **O**4 3-Hydroxy-(Z)-3-Peroxy-aminoacrylate (Z)-3-Ureidoacrylate-Aminoacrylate 3'-CMP 2',3'-Cyclic CMP propionate K00527 K21636 hm5dCDP hm5dCTP peracid K19797 K00527 K21636 hm5dCMP K18942 K13800.. dCMP Deoxycytidine dCTP cmk ၨႚၯၴၫ dCDP hm5C in DNA K16904 surE K16904 K08722 K01489 K09887 K00756 dcd K01493 K01520 dnaN... K00757 Deoxyuridine 🕌 K03783... K00857 K00758 3.6.1.39 dUMP O Urea dUTP surE 5-Methylbarbiturate K08722 | 1.1799.4|**--▶℃** K00560.. nrdJ thy1 C(2376 3-Oxo-3-ureido-isobutyrate Methylmalonate 5-Methylcytosine surE °Ø¹UDP K08722 K08728 Valine, leucine and dnaN... K00857 DNA°**©⊶** isoleucine metabolism K01510.. K00758 K00207 Thymidine (R)-3-Amino-isobutyrate **♦** dTMP (R)-Dihydro-(R)-3-Ureido-Thymine K01510.. isobutyrate thymine 3.6.1.39 2-Deoxy-D-nbose-1P K01513... 00240 5/11/17 (c) Kanehisa Laboratories