mTOR SIGNALING PATHWAY Insulin signaling pathway Growth factors K04526... K16172 Hormones Ras/ MAPK • Wortmannin OLY294002 PIP3**O**I MAPK signaling pathway K02677... →Actin organization K06276 K08266 Insensitive Or its analogs +p K07203 DNA K04371 K08267 VEGF signaling pathway K05448 +p K04373 K16184 K08266 Extracellular amino acids K07206 ► Translation → Cell growth K07208 K07205 K03259 K07204 +р Regulation of autophagy K08270 K16185 K07198 K16186 Hypoxia +p O Amino acids K03156 K07298 Differentiation AMP O K08271 Metformin O K08272 AICAR O Energy stress 04150 10/23/15 (c) Kanehisa Laboratories