## GO\_Biological\_Process\_2017 endoplasmic reticulum tubular network formation (GO:0071787) positive regulation of protein import into nucleus, translocation (GO:0033160) endoplasmic reticulum tubular network organization (GO:0071786) axonal fasciculation (GO:0007413) cholesterol biosynthetic process (GO:0006695) fatty acid beta-oxidation (GO:0006635) protein O-linked mannosylation (GO:0035269) regulation of transcription from RNA polymerase II promoter (GO:0006357) cell communication by electrical coupling involved in cardiac conduction (GO:0086064) mitochondrial electron transport, NADH to ubiquinone (GO:0006120) 0 2 3 GO\_Cellular\_Component\_2017-log10 P-value integral component of organelle membrane (GO:0031301) endoplasmic reticulum tubular network (GO:0071782) mitochondrial inner membrane (GO:0005743) mitochondrial respiratory chain complex I (GO:0005747) rough endoplasmic reticulum (GO:0005791) tertiary granule membrane (GO:0070821) mediator complex (GO:0016592) site of double-strand break (GO:0035861) condensin complex (GO:0000796) proton-transporting two-sector ATPase complex (GO:0016469) GO\_Molecular\_Function\_2017-log10 P-value ATP binding (GO:0005524) DNA replication origin binding (GO:0003688) NADH dehydrogenase (ubiquinone) activity (GO:0008137) signal transducer activity (GO:0004871) aspartic endopeptidase activity, intramembrane cleaving (GO:0042500) acrosin binding (GO:0032190) excitatory extracellular ligand-gated ion channel activity (GO:0005231) semaphorin receptor binding (GO:0030215) syndecan binding (GO:0045545) phosphatase binding (GO:0019902) 2 3 -log<sub>10</sub> P-value **KEGG\_2016** Terpenoid backbone biosynthesis\_Homo sapiens\_hsa00900 AMPK signaling pathway\_Homo sapiens\_hsa04152 Insulin secretion\_Homo sapiens\_hsa04911 Fatty acid metabolism Homo sapiens hsa01212 Valine, leucine and isoleucine degradation\_Homo sapiens\_hsa00280 Longevity regulating pathway - mammal Homo sapiens hsa04211 Non-alcoholic fatty liver disease (NAFLD)\_Homo sapiens\_hsa04932 Regulation of lipolysis in adipocytes\_Homo sapiens\_hsa04923

Longevity regulating pathway - multiple species\_Homo sapiens\_hsa04213

Neurotrophin signaling pathway\_Homo sapiens\_hsa04722