## **Top Significant Pathways GATC** Quorum sensing Pentose and glucuronate interconversions Galactose metabolism Metabolic pathways Biosynthesis of secondary metabolites Ascorbate and aldarate metabolism Citrate cycle (TCA cycle) Oxidative phosphorylation Pentose phosphate pathway Fructose and mannose metabolism Ubiquinone and other terpenoid-quinone biosynthesis direction Fatty acid degradation Negative Biosynthesis of siderophore group nonribosomal peptides Positive Proximal tubule bicarbonate reclamation Biosynthesis of vancomycin group antibiotics AMPK signaling pathway Prodigiosin biosynthesis Acarbose and validamycin biosynthesis MAPK signaling pathway – fly Longevity regulating pathway FoxO signaling pathway Polyketide sugar unit biosynthesis Apoptosis – fly Bile secretion 1.0 -1.0-0.50.5 Normalized Enrichment Score (NES)