KEGG Pathways with Significant Changes in number of unique KEGG Orthologs across Anthazoan Tree

Major KEGG Category	Minor KEGG Category	KEGG Pathway	p- value
Cellular Processes	Cell motility	Bacterial chemotaxis (map02030)	0.002
Environmental Information Processing	Membrane transport	ABC transporters (map02010)	0.010
Environmental Information Processing	Membrane transport	Bacterial secretion system (map03070)	0.014
Environmental Information Processing	Signal transduction	MAPK signaling pathway (map04010)	0.014
Environmental Information Processing	Signal transduction	MAPK signaling pathway - fly (map04013)	0.037
Environmental Information Processing	Signal transduction	Notch signaling pathway (map04330)	0.009
Environmental Information Processing	Signal transduction	Two-component system (map02020)	0.011
Genetic Information Processing	Replication and repair	Nucleotide excision repair (map03420)	0.036
Genetic Information Processing	Transcription	RNA polymerase (map03020)	0.016
Genetic Information Processing	Translation	Ribosome (map03010)	<0.001
Metabolism	Amino acid metabolism	Lysine biosynthesis (map00300)	0.021
Metabolism	Carbohydrate metabolism	Ascorbate and aldarate metabolism (map00053)	0.029
Metabolism	Carbohydrate metabolism	Butanoate metabolism (map00650)	0.036
Metabolism	Lipid metabolism	Fatty acid degradation (map00071)	0.029
Metabolism	Metabolism of other	beta-Alanine metabolism	0.022

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	amino acids	(map00410)	
Organismal Systems	Immune system	Toll-like receptor signaling pathway (map04620)	0.048
Organismal Systems	Nervous system	Retrograde endocannabinoid signaling (map04723)	0.003