p < 0.001 37/87 carbohydrate biosynthetic process p < 0.01 p < 0.05 6/6 regulation of neuron migration 198/403 organic acid metabolic process 186/404 lipid metabolic process 8/7 Golgi transport vesicle coating 111/218 monocarboxylic acid metabolic process 70/141 fatty acid metabolic process 6/11 lipoprotein metabolic process 5/10 cell fate commitment involved in formation of primary germ layer 155/404 RNA biosynthetic process 6/9 skeletal muscle organ developn 81/162 lipid biosynthetic process 103/238 small molecule biosynthetic process 50/117 organic acid biosynthetic process 204/458 response to biotic stimulus 13/21 hydrogen peroxide metabolic process 29/53 reactive oxygen species metabolic process 70/143 obsolete oxidation-reduction proce 6/10 cellular detoxification 123/287 response to inorganic substance 89/206 response to metal ion 11/18 toxin transport 14/31 regulation of oxidoreductase 9/21 regulation of monooxygenase 127/297 immune response 119/288 response to lipid 9/20 cellular response to cAMP 156/386 cellular response to organic substa 26/40 cellular aldehyde metabolic process 12/18 mesoderm formation 7/8 embryonic caudal fin morphogenesis 112/350 mRNA metabolic process 41/152 RNA catabolic process 25/115 translational initiation 18/114 nuclear-transcribed mRNA catabolic process, nonsense-mediated decay 22/35 fin morphogenesis 195/498 negative regulation of biosynthetic process 105/245 negative regulation of transcription by RNA polymerase II 8/13 positive regulation of response to DNA damage stimulus 200/538 positive regulation of macromolecule biosynthetic process 11/30 positive regulation of DNA metabolic process 42/110 antigen processing and presentation 26/56 antigen processing and presentation of peptide antigen via MHC class \boldsymbol{I} 160/355 proteolysis 81/165 small molecule catabolic process 59/120 organic acid catabolic process 64/146 cellular amino acid metabolic process 18/27 tricarboxylic acid cycle 4/10 determination of pancreatic left/right asy 20/61 determination of bilateral symmetry 6/15 determination of digestive tract left/right asymmetry 45/117 locomotory behavior 83/162 purine-containing compound metabolic process 96/206 nucleobase-containing small molecule metabolic production 17/36 purine nucleoside triphosphate metabolic process 141/302 carbohydrate derivative metabolic process 12/24 ATP biosynthetic process 138/318 organonitrogen compound biosynthetic process 7/12 ATP synthesis coupled proton transport 140/300 organophosphate metabolic process 40/95 nucleoside phosphate biosynthetic process 16/27 proton transmembrane transport 103/212 generation of precursor metabolites and energy 35/60 electron transport chain 60/137 determination of adult lifespan 28/50 protein N-linked glycosylation 9/13 chitin-based cuticle develo 16/19 vesicle coating ated transport, Golgi to endoplasmic reticulu 11/14 negative regulation of mitochondrion organization 20/33 regulation of mitochondrion orga 56/112 mitochondrion organization 79/203 regulation of response to external stimulus 22/36 iron ion homeostasis 32/55 transition metal ion homeostasis 14/28 iron ion transport 52/157 ncRNA metabolic process 29/83 rRNA metabolic process 23/50 RNA phosphodiester bond hydrolysis 8/19 positive regulation of RNA splicing 114/340 RNA processing 58/176 mRNA processing 49/151 RNA splicing 43/102 regulation of mRNA metabolic process 37/84 regulation of RNA splicing 13/54 RNA 3'-end processing 92/180 external encapsulating structure organization 12/18 collagen metabolic process 61/115 response to nutrient 28/47 tissue regeneration 126/331 cellular response to DNA damage stimulus 24/52 double-strand break repair 60/158 DNA repair 30/68 DNA recombination 7/13 DNA strand elongation 109/290 DNA metabolic process 72/173 chromosome organization 11/25 regulation of DNA-dependent DNA replication 22/62 regulation of DNA replication 19/69 DNA replication 55/145 methylation 16/54 histone methylation 10/24 regulation of histone methylation 46/126 peptidyl-lysine modification 59/169 covalent chromatin modification

11/32 ATP-dependent chromatin remodeling 107/262 chromatin organization 33/74 chromatin remodeling

12/36 positive regulation of chromosome organization 39/102 regulation of chromosome organization

27/56 monosaccharide biosynthetic process