



145/477 cellular amide metabolic process

6/50 translational elongation

134/401 amide biosynthetic process

7/20 cytoplasmic translation initiation

5/10 formation of translation preinitiation complex

107/270 peptide biosynthetic process

3/11 IRES-dependent viral translation initiation

42/186 interspecies interaction between organisms

55/253 regulation of cellular amide metabolic process

12/55 regulation of translational initiation

20/85 negative regulation of cellular amide metabolic process

9/18 response to interleukin-4

5/23 aromatic amino acid family metabolic process

4/10 L-phenylalanine metabolic process

4/16 aromatic amino acid family catabolic process

18/57 drug catabolic process

82/381 drug metabolic process

55/244 small molecule catabolic process

4/8 serine family amino acid catabolic process

90/516 single-organism catabolic process

40/164 organic acid catabolic process

22/86 cellular amino acid catabolic process

25/111 cellular amino acid biosynthetic process

2/8 L-serine biosynthetic process

6/18 serine family amino acid biosynthetic process

53/251 carboxylic acid biosynthetic process

18/70 alpha-amino acid biosynthetic process

13/40 serine family amino acid metabolic process

8/21 glycine metabolic process

39/168 alpha-amino acid metabolic process

58/275 cellular amino acid metabolic process

6/25 amino acid activation

110/578 carboxylic acid metabolic process

8/37 neurotransmitter biosynthetic process

15/71 neurotransmitter metabolic process

1/8 protein-cofactor linkage

14/61 pigment biosynthetic process

7/54 protein localization to mitochondrion

33/131 mitochondrial transport

2/9 mitochondrial protein processing

60/323 mitochondrion organization

4/11 glucan biosynthetic process

6/22 polysaccharide biosynthetic process

4/12 antigen processing and presentation of exogenous peptide antigen via MHC class I

6/19 antigen processing and presentation of peptide antigen via MHC class I

7/26 regulation of response to reactive oxygen species

3/28 maternal process involved in female pregnancy

18/70 female pregnancy

10/70 placenta development

4/8 regulation of isoprenoid metabolic process

82/354 cell activation involved in immune response

3/19 regulation of lipopolysaccharide-mediated signaling pathway

5/43 aminoglycan catabolic process

12/72 aminoglycan metabolic process

15/101 carbohydrate derivative catabolic process

7/44 sulfur compound catabolic process

21/109 response to transition metal nanoparticle

2/28 response to methylmercury

2/21 iron-sulfur cluster assembly

41/251 sulfur compound metabolic process

17/119 vacuolar transport

4/25 protein localization to lysosome

15/70 lysosome organization

10/36 iron ion transport

13/60 transition metal ion transport

5/20 ferric iron transport

3/16 energy coupled proton transmembrane transport, against electrochemical gradient

62/318 ion homeostasis

0/16 vacuolar acidification

0/25 pH reduction

2/9 cellular response to increased oxygen levels

1/7 copper ion transmembrane transport

1/5 copper ion import

46/218 metal ion homeostasis

60/308 cellular chemical homeostasis

10/47 iron ion homeostasis

14/70 transition metal ion homeostasis

3/17 zinc ion transport

7/26 body fluid secretion

36/175 response to endoplasmic reticulum stress

20/74 ER-nucleus signaling pathway

29/109 response to topologically incorrect protein

27/91 response to unfolded protein

4/8 negative regulation of transcription from RNA polymerase II promoter in response to stress

6/63 ER-associated ubiquitin-dependent protein catabolic process

37/221 proteasomal protein catabolic process

6/12 protein folding in endoplasmic reticulum

43/137 protein folding

25/48 chaperone-mediated protein folding

3/13 regulation of inclusion body assembly

41/187 post-translational protein modification

2/15 sperm-egg recognition

7/47 protein N-linked glycosylation

17/130 glycoprotein biosynthetic process

4/20 peptidyl-asparagine modification

61/302 carbohydrate derivative biosynthetic process

3/6 pyrimidine nucleoside triphosphate biosynthetic process

27/174 glycoprotein metabolic process

0/7 mannose metabolic process

0/24 protein deglycosylation

3/44 oligosaccharide metabolic process

67/233 neuron projection guidance

90/332 taxis

6/16 photoreceptor cell axon guidance

98/331 axon development

36/138 developmental growth involved in morphogenesis

20/61 neuron projection extension

7/14 dendritic spine morphogenesis

10/23 dendritic spine development

7/10 establishment of Golgi localization

8/14 Golgi localization

162/576 regulation of anatomical structure morphogenesis

41/96 regulation of cell shape

105/363 regulation of cell morphogenesis

30/52 nucleus localization

140/489 embryonic morphogenesis

52/162 gastrulation

4/6 apical constriction involved in gastrulation

167/609 neuron projection development

9/12 apical constriction

62/196 morphogenesis of embryonic epithelium

130/428 epithelial cell differentiation

97/322 epithelial cell development

5/8 compartment pattern specification

174/660 morphogenesis of an epithelium

37/90 morphogenesis of a polarized epithelium

9/28 establishment of ommatidial planar polarity

25/65 establishment of tissue polarity

15/35 establishment of epithelial cell polarity

156/556 cell motility

27/57 establishment or maintenance of apical/basal cell polarity

45/110 establishment of cell polarity

86/222 establishment or maintenance of cell polarity

7/10 establishment of neuroblast polarity

9/19 establishment or maintenance of neuroblast polarity

29/127 Wnt signaling pathway

105/437 circulatory system development

35/163 heart morphogenesis

2/5 glomerulus morphogenesis

43/196 embryonic organ morphogenesis

23/90 limb development

4/17 hindlimb morphogenesis

67/256 appendage development

20/77 limb morphogenesis

5/12 forelimb morphogenesis

11/37 embryonic digit morphogenesis

122/479 pattern specification process

38/123 anterior/posterior axis specification

59/182 axis specification

44/171 embryonic pattern specification

59/200 anterior/posterior pattern specification

11/43 somitogenesis

51/189 segmentation

4/5 fourth ventricle development

130/477 sensory organ development

69/230 eye morphogenesis

48/175 camera-type eye development

9/33 neural tube patterning

11/26 ventricular system development

144/562 central nervous system development

6/8 lateral ventricle development

72/279 cell fate commitment

24/98 cell fate specification

101/369 instar larval or pupal development

13/33 eye-antennal disc development

56/209 wing disc development

81/304 post-embryonic organ development

52/185 imaginal disc-derived appendage development

15/53 leg disc development

4/6 negative regulation of B cell proliferation

153/536 post-embryonic development

3/7 dedifferentiation

29/109 mesoderm development

46/137 negative regulation of locomotion

53/190 positive regulation of developmental growth

80/268 positive regulation of growth

90/372 regulation of developmental growth

6/21 regulation of growth rate

10/30 positive regulation of striated muscle cell differentiation

16/47 positive regulation of muscle cell differentiation

23/100 regulation of muscle organ development

16/43 chaeta development

15/46 compound eye photoreceptor development

41/129 photoreceptor cell differentiation

11/26 rhabdome development

30/92 photoreceptor cell development

17/37 embryonic body morphogenesis

30/74 body morphogenesis

10/31 striated muscle contraction

32/91 muscle system process

7/23 cardiac muscle contraction

63/233 regulation of system process

6/6 actin-myosin filament sliding

26/50 actin filament-based movement

18/36 actin-mediated cell contraction

24/79 regulation of transporter

21/61 myofibril assembly

54/196 cellular component assembly involved in morphogenesis

13/36 sarcomere organization

138/527 organelle assembly

5/8 cardiac myofibril assembly

35/94 actomyosin structure organization

103/332 muscle structure development

30/112 muscle cell development

8/12 muscle thin filament assembly

6/15 myotube cell development

19/53 myotube differentiation

58/200 muscle cell differentiation

20/43 Rho protein signal transduction

46/133 small GTPase mediated signal transduction

9/12 Rac protein signal transduction

57/145 regulation of small GTPase mediated signal transduction

19/42 Fc receptor mediated stimulatory signaling pathway

32/93 immune response-regulating cell surface receptor signaling pathway

23/65 Fc receptor signaling pathway

12/29 actin polymerization or depolymerization

66/131 actin filament organization

129/305 actin filament-based process

92/230 fibril organization

16/34 regulation of lamellipodium organization

25/52 actin cytoskeleton reorganization

44/120 positive regulation of cytoskeleton organization

101/332 positive regulation of organelle organization

6/9 regulation of myosin II filament organization

82/186 regulation of actin filament-based process

17/29 negative regulation of protein polymerization

62/233 negative regulation of organelle organization

12/6/445 negative regulation of cellular component organization

32/76 negative regulation of cytoskeleton organization

95/279 regulation of cytoskeleton organization

7/20 negative regulation of microtubule polymerization or depolymerization

12/15 regulation of actin filament depolymerization

55/114 regulation of protein polymerization

9/11 negative regulation of actin filament depolymerization

8/9 actin filament capping

69/170 regulation of fibril organization

109/370 regulation of anatomical structure size

17/35 regulation of protein depolymerization

19/46 regulation of protein complex disassembly

24/65 negative regulation of protein complex assembly

4/6 negative regulation of filopodium assembly

23/56 regulation of filopodium assembly

46/132 regulation of cell projection assembly

116/493 mitotic cell cycle

11/54 cell cycle G2/M phase transition

20/87 membrane docking

55/240 regulation of cell cycle phase transition

89/395 regulation of mitotic cell cycle

43/170 positive regulation of cell cycle process

93/442 regulation of cell cycle process

17/54 positive regulation of cell cycle phase transition

56/233 positive regulation of cell cycle

74/276 cell division

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49/207 meriotic cell cycle

17/71 germlarium-derived egg chamber formation

58/206 microtubule-based movement

15/57 cilium movement

24/83 microtubule bundle formation