Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
purine nucleotide metabolic process	3	3	0.97	1	0.031	0.031
purine nucleotide biosynthetic process	3	3	0.97	2	0.031	0.031
IMP biosynthetic process	3	3	0.97	3	0.031	0.031
nucleoside phosphate metabolic process	3	3	0.97	4	0.031	0.031
nucleotide metabolic process	3	3	0.97	5	0.031	0.031
nucleoside monophosphate metabolic proce...	3	3	0.97	6	0.031	0.031
nucleoside monophosphate biosynthetic pr...	3	3	0.97	7	0.031	0.031
purine nucleoside monophosphate metaboli...	3	3	0.97	8	0.031	0.031
purine nucleoside monophosphate biosynth...	3	3	0.97	9	0.031	0.031
purine ribonucleotide metabolic process	3	3	0.97	10	0.031	0.031
purine ribonucleotide biosynthetic proce...	3	3	0.97	11	0.031	0.031
ribonucleoside monophosphate biosyntheti...	3	3	0.97	12	0.031	0.031
ribonucleoside monophosphate metabolic p...	3	3	0.97	13	0.031	0.031
nucleotide biosynthetic process	3	3	0.97	14	0.031	0.031
purine ribonucleoside monophosphate meta...	3	3	0.97	15	0.031	0.031
purine ribonucleoside monophosphate bios...	3	3	0.97	16	0.031	0.031
ribonucleotide metabolic process	3	3	0.97	17	0.031	0.031
ribonucleotide biosynthetic process	3	3	0.97	18	0.031	0.031
IMP metabolic process	3	3	0.97	19	0.031	0.031
nucleobase, nucleoside and nucleotide me...	3	3	0.97	20	0.031	0.031
nucleobase, nucleoside, nucleotide and n...	7	5	2.25	21	0.034	0.034
carbohydrate metabolic process	6	4	1.93	22	0.083	0.083
biosynthetic process	11	6	3.54	23	0.094	0.094
cellular biosynthetic process	11	6	3.54	24	0.094	0.094
'de novo' IMP biosynthetic process	2	2	0.64	25	0.102	0.102
cellular aromatic compound metabolic pro...	2	2	0.64	26	0.102	0.102
phosphorus metabolic process	2	2	0.64	27	0.102	0.102
phosphate metabolic process	2	2	0.64	28	0.102	0.102
heterocycle metabolic process	2	2	0.64	29	0.102	0.102
reproduction	13	6	4.18	30	0.201	0.201
protein modification process	3	2	0.97	31	0.242	0.242
ion transport	3	2	0.97	32	0.242	0.242
biopolymer modification	3	2	0.97	33	0.242	0.242
growth	23	9	7.4	34	0.288	0.288
behavior	6	3	1.93	35	0.293	0.293
oviposition	6	3	1.93	36	0.293	0.293
reproductive behavior	6	3	1.93	37	0.293	0.293
multicellular organism reproduction	6	3	1.93	38	0.293	0.293
reproductive behavior in a multicellular...	6	3	1.93	39	0.293	0.293
reproductive process in a multicellular ...	6	3	1.93	40	0.293	0.293
gastrulation with mouth forming first	1	1	0.32	41	0.322	0.322
monosaccharide metabolic process	1	1	0.32	42	0.322	0.322
fucose metabolic process	1	1	0.32	43	0.322	0.322
L-fucose biosynthetic process	1	1	0.32	44	0.322	0.322
mannose metabolic process	1	1	0.32	45	0.322	0.322
cellular alcohol metabolic process	1	1	0.32	46	0.322	0.322
purine base metabolic process	1	1	0.32	47	0.322	0.322
protein amino acid phosphorylation	1	1	0.32	48	0.322	0.322
protein amino acid glycosylation	1	1	0.32	49	0.322	0.322
asparagine metabolic process	1	1	0.32	50	0.322	0.322
asparagine biosynthetic process	1	1	0.32	51	0.322	0.322
group transfer coenzyme metabolic proces...	1	1	0.32	52	0.322	0.322
folic acid and derivative metabolic proc...	1	1	0.32	53	0.322	0.322
sodium ion transport	1	1	0.32	54	0.322	0.322
phosphate transport	1	1	0.32	55	0.322	0.322
anion transport	1	1	0.32	56	0.322	0.322
cell adhesion	1	1	0.32	57	0.322	0.322
cell-matrix adhesion	1	1	0.32	58	0.322	0.322
gastrulation	1	1	0.32	59	0.322	0.322
aspartate family amino acid metabolic pr...	1	1	0.32	60	0.322	0.322
aspartate family amino acid biosynthetic...	1	1	0.32	61	0.322	0.322
glycoprotein metabolic process	1	1	0.32	62	0.322	0.322
glycoprotein biosynthetic process	1	1	0.32	63	0.322	0.322
coenzyme biosynthetic process	1	1	0.32	64	0.322	0.322
nucleobase metabolic process	1	1	0.32	65	0.322	0.322
purine base biosynthetic process	1	1	0.32	66	0.322	0.322
nucleotide-sugar metabolic process	1	1	0.32	67	0.322	0.322
nucleotide-sugar biosynthetic process	1	1	0.32	68	0.322	0.322
folic acid and derivative biosynthetic p...	1	1	0.32	69	0.322	0.322
monovalent inorganic cation transport	1	1	0.32	70	0.322	0.322
inorganic anion transport	1	1	0.32	71	0.322	0.322
carbohydrate biosynthetic process	1	1	0.32	72	0.322	0.322
phosphorylation	1	1	0.32	73	0.322	0.322
hexose metabolic process	1	1	0.32	74	0.322	0.322
hexose biosynthetic process	1	1	0.32	75	0.322	0.322

Table 9

Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
GDP-mannose metabolic process	1	1	0.32	76	0.322	0.322
biological adhesion	1	1	0.32	77	0.322	0.322
cell-substrate adhesion	1	1	0.32	78	0.322	0.322
nucleobase, nucleoside and nucleotide bi...	1	1	0.32	79	0.322	0.322
cellular carbohydrate biosynthetic proce...	1	1	0.32	80	0.322	0.322
nucleobase, nucleoside, nucleotide and n...	1	1	0.32	81	0.322	0.322
GDP-L-fucose biosynthetic process	1	1	0.32	82	0.322	0.322
fucose biosynthetic process	1	1	0.32	83	0.322	0.322
L-fucose metabolic process	1	1	0.32	84	0.322	0.322
pigment metabolic process	1	1	0.32	85	0.322	0.322
biopolymer glycosylation	1	1	0.32	86	0.322	0.322
cellular carbohydrate metabolic process	1	1	0.32	87	0.322	0.322
nucleobase biosynthetic process	1	1	0.32	88	0.322	0.322
pigment biosynthetic process	1	1	0.32	89	0.322	0.322
alcohol biosynthetic process	1	1	0.32	90	0.322	0.322
monosaccharide biosynthetic process	1	1	0.32	91	0.322	0.322
GDP-L-fucose metabolic process	1	1	0.32	92	0.322	0.322
embryonic morphogenesis	1	1	0.32	93	0.322	0.322
cofactor biosynthetic process	1	1	0.32	94	0.322	0.322
glycosylation	1	1	0.32	95	0.322	0.322
cellular component organization	4	2	1.29	96	0.387	0.387
reproductive process	7	3	2.25	97	0.402	0.402
regulation of growth rate	19	7	6.11	98	0.41	0.41
positive regulation of growth rate	19	7	6.11	99	0.41	0.41
cellular metabolic process	35	12	11.26	100	0.455	0.455
regulation of biological process	23	8	7.4	101	0.473	0.473
regulation of growth	20	7	6.43	102	0.478	0.478
positive regulation of growth	20	7	6.43	103	0.478	0.478
positive regulation of biological proces...	20	7	6.43	104	0.478	0.478
transport	17	6	5.47	105	0.484	0.484
localization	17	6	5.47	106	0.484	0.484
establishment of localization	17	6	5.47	107	0.484	0.484
nematode larval development	5	2	1.61	108	0.519	0.519
larval development	5	2	1.61	109	0.519	0.519
macromolecule biosynthetic process	5	2	1.61	110	0.519	0.519
anatomical structure morphogenesis	5	2	1.61	111	0.519	0.519
post-embryonic development	5	2	1.61	112	0.519	0.519
cellular macromolecule biosynthetic proc...	5	2	1.61	113	0.519	0.519
biological regulation	24	8	7.72	114	0.536	0.536
peptidoglycan metabolic process	2	1	0.64	115	0.542	0.542
DNA packaging	2	1	0.64	116	0.542	0.542
establishment or maintenance of chromati...	2	1	0.64	117	0.542	0.542
chromatin assembly or disassembly	2	1	0.64	118	0.542	0.542
nucleosome assembly	2	1	0.64	119	0.542	0.542
cellular amino acid and derivative metab...	2	1	0.64	120	0.542	0.542
amino acid metabolic process	2	1	0.64	121	0.542	0.542
coenzyme metabolic process	2	1	0.64	122	0.542	0.542
nitrogen compound metabolic process	2	1	0.64	123	0.542	0.542
cation transport	2	1	0.64	124	0.542	0.542
organelle organization	2	1	0.64	125	0.542	0.542
cell wall organization	2	1	0.64	126	0.542	0.542
amino acid biosynthetic process	2	1	0.64	127	0.542	0.542
peptidoglycan catabolic process	2	1	0.64	128	0.542	0.542
cellular amine metabolic process	2	1	0.64	129	0.542	0.542
amine biosynthetic process	2	1	0.64	130	0.542	0.542
cell wall catabolic process	2	1	0.64	131	0.542	0.542
cellular component assembly	2	1	0.64	132	0.542	0.542
metal ion transport	2	1	0.64	133	0.542	0.542
chromatin assembly	2	1	0.64	134	0.542	0.542
cellular macromolecular complex subunit ...	2	1	0.64	135	0.542	0.542
cellular macromolecular complex assembly	2	1	0.64	136	0.542	0.542
cellular nitrogen compound metabolic pro...	2	1	0.64	137	0.542	0.542
nucleosome organization	2	1	0.64	138	0.542	0.542
post-translational protein modification	2	1	0.64	139	0.542	0.542
macromolecular complex subunit organizat...	2	1	0.64	140	0.542	0.542
cell wall metabolic process	2	1	0.64	141	0.542	0.542
nitrogen compound biosynthetic process	2	1	0.64	142	0.542	0.542
external encapsulating structure organiz...	2	1	0.64	143	0.542	0.542
cofactor metabolic process	2	1	0.64	144	0.542	0.542
chromosome organization	2	1	0.64	145	0.542	0.542
macromolecular complex assembly	2	1	0.64	146	0.542	0.542
protein-DNA complex assembly	2	1	0.64	147	0.542	0.542
cellular process	46	15	14.8	148	0.547	0.547
organic acid metabolic process	6	2	1.93	149	0.631	0.631
lipid transport	6	2	1.93	150	0.631	0.631
carboxylic acid metabolic process	6	2	1.93	151	0.631	0.631

Table 9 (contd)

Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
multicellular organismal process	39	12	12.55	152	0.668	0.668
response to stimulus	10	3	3.22	153	0.683	0.683
transcription	3	1	0.97	154	0.692	0.692
transcription, DNA-dependent	3	1	0.97	155	0.692	0.692
regulation of transcription, DNA-depende...	3	1	0.97	156	0.692	0.692
regulation of biosynthetic process	3	1	0.97	157	0.692	0.692
body morphogenesis	3	1	0.97	158	0.692	0.692
regulation of gene expression	3	1	0.97	159	0.692	0.692
regulation of macromolecule biosynthetic...	3	1	0.97	160	0.692	0.692
carbohydrate catabolic process	3	1	0.97	161	0.692	0.692
RNA metabolic process	3	1	0.97	162	0.692	0.692
regulation of nucleobase, nucleoside, nu...	3	1	0.97	163	0.692	0.692
regulation of metabolic process	3	1	0.97	164	0.692	0.692
regulation of cellular metabolic process	3	1	0.97	165	0.692	0.692
regulation of cellular biosynthetic proc...	3	1	0.97	166	0.692	0.692
RNA biosynthetic process	3	1	0.97	167	0.692	0.692
regulation of transcription	3	1	0.97	168	0.692	0.692
regulation of RNA metabolic process	3	1	0.97	169	0.692	0.692
regulation of macromolecule metabolic pr...	3	1	0.97	170	0.692	0.692
anatomical structure development	7	2	2.25	171	0.723	0.723
embryonic development	18	5	5.79	172	0.757	0.757
primary metabolic process	41	12	13.19	173	0.758	0.758
multicellular organismal development	35	10	11.26	174	0.776	0.776
gene expression	4	1	1.29	175	0.794	0.794
monocarboxylic acid metabolic process	4	1	1.29	176	0.794	0.794
cellular biopolymer biosynthetic process	4	1	1.29	177	0.794	0.794
biopolymer biosynthetic process	4	1	1.29	178	0.794	0.794
developmental process	37	10	11.9	179	0.848	0.848
catabolic process	5	1	1.61	180	0.862	0.862
regulation of cellular process	5	1	1.61	181	0.862	0.862
embryonic development ending in birth or...	17	4	5.47	182	0.867	0.867
cellular biopolymer metabolic process	22	5	7.08	183	0.908	0.908
cellular macromolecule metabolic process	22	5	7.08	184	0.908	0.908
metabolic process	56	15	18.02	185	0.92	0.92
aging	11	2	3.54	186	0.924	0.924
determination of adult life span	11	2	3.54	187	0.924	0.924
multicellular organismal aging	11	2	3.54	188	0.924	0.924
locomotion	11	2	3.54	189	0.924	0.924
protein metabolic process	19	4	6.11	190	0.924	0.924
cellular protein metabolic process	19	4	6.11	191	0.924	0.924
macromolecule metabolic process	23	5	7.4	192	0.93	0.93
biopolymer metabolic process	23	5	7.4	193	0.93	0.93
proteolysis	15	2	4.83	194	0.982	0.982
biological_process	115	37	37	195	1	1
transition metal ion transport	1	0	0.32	196	1	1
M phase	1	0	0.32	197	1	1
cell fate specification	1	0	0.32	198	1	1
morphogenesis of an epithelium	1	0	0.32	199	1	1
reproductive developmental process	2	0	0.64	200	1	1
polysaccharide metabolic process	1	0	0.32	201	1	1
chitin metabolic process	1	0	0.32	202	1	1
chitin catabolic process	1	0	0.32	203	1	1
amino sugar metabolic process	1	0	0.32	204	1	1
glucosamine metabolic process	1	0	0.32	205	1	1
glucosamine catabolic process	1	0	0.32	206	1	1
N-acetylglucosamine metabolic process	1	0	0.32	207	1	1
N-acetylglucosamine catabolic process	1	0	0.32	208	1	1
translation	1	0	0.32	209	1	1
protein folding	1	0	0.32	210	1	1
glutamine metabolic process	1	0	0.32	211	1	1
glutamine biosynthetic process	1	0	0.32	212	1	1
lipid metabolic process	9	0	2.9	213	1	1
fatty acid metabolic process	3	0	0.97	214	1	1
fatty acid biosynthetic process	1	0	0.32	215	1	1
acyl-CoA metabolic process	1	0	0.32	216	1	1
membrane lipid metabolic process	2	0	0.64	217	1	1
phospholipid metabolic process	2	0	0.64	218	1	1
sphingolipid metabolic process	2	0	0.64	219	1	1
sphingomyelin metabolic process	2	0	0.64	220	1	1
sphingomyelin catabolic process	2	0	0.64	221	1	1
iron ion transport	1	0	0.32	222	1	1
cellular ion homeostasis	1	0	0.32	223	1	1
cellular iron ion homeostasis	1	0	0.32	224	1	1
response to stress	4	0	1.29	225	1	1
defense response	2	0	0.64	226	1	1
ER-nuclear signaling pathway	2	0	0.64	227	1	1

Table 9 (contd)

Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
response to unfolded protein	2	0	0.64	228	1	1
cell cycle	1	0	0.32	229	1	1
chromosome segregation	1	0	0.32	230	1	1
meiosis	1	0	0.32	231	1	1
cell communication	3	0	0.97	232	1	1
signal transduction	2	0	0.64	233	1	1
intracellular signaling cascade	2	0	0.64	234	1	1
pattern specification process	1	0	0.32	235	1	1
sex differentiation	2	0	0.64	236	1	1
protein-based cuticle development	1	0	0.32	237	1	1
lipid biosynthetic process	1	0	0.32	238	1	1
glutamine family amino acid metabolic pr...	1	0	0.32	239	1	1
glutamine family amino acid biosynthetic...	1	0	0.32	240	1	1
phospholipid catabolic process	2	0	0.64	241	1	1
response to biotic stimulus	2	0	0.64	242	1	1
embryonic pattern specification	1	0	0.32	243	1	1
gas transport	1	0	0.32	244	1	1
oxygen transport	1	0	0.32	245	1	1
di-, tri-valent inorganic cation transpo...	1	0	0.32	246	1	1
lipid catabolic process	2	0	0.64	247	1	1
organic acid biosynthetic process	1	0	0.32	248	1	1
protein processing	1	0	0.32	249	1	1
intein-mediated protein splicing	1	0	0.32	250	1	1
molting cycle, protein-based cuticle	1	0	0.32	251	1	1
molting cycle, collagen and cuticulin-ba...	1	0	0.32	252	1	1
cellular homeostasis	1	0	0.32	253	1	1
cell cycle process	1	0	0.32	254	1	1
cell cycle phase	1	0	0.32	255	1	1
cellular cation homeostasis	1	0	0.32	256	1	1
cellular di-, tri-valent inorganic catio...	1	0	0.32	257	1	1
sphingolipid catabolic process	2	0	0.64	258	1	1
cell differentiation	1	0	0.32	259	1	1
protein splicing	1	0	0.32	260	1	1
endoplasmic reticulum unfolded protein r...	2	0	0.64	261	1	1
cellular response to stress	2	0	0.64	262	1	1
cellular response to unfolded protein	2	0	0.64	263	1	1
response to endoplasmic reticulum stress	2	0	0.64	264	1	1
multicellular organism growth	1	0	0.32	265	1	1
collagen and cuticulin-based cuticle dev...	1	0	0.32	266	1	1
regulation of locomotion	1	0	0.32	267	1	1
regulation of multicellular organism gro...	1	0	0.32	268	1	1
positive regulation of locomotion	1	0	0.32	269	1	1
positive regulation of multicellular org...	1	0	0.32	270	1	1
hermaphrodite genitalia development	2	0	0.64	271	1	1
response to chemical stimulus	2	0	0.64	272	1	1
molting cycle	1	0	0.32	273	1	1
cuticle development	1	0	0.32	274	1	1
homeostatic process	1	0	0.32	275	1	1
cellular lipid catabolic process	2	0	0.64	276	1	1
cellular catabolic process	2	0	0.64	277	1	1
cellular lipid metabolic process	5	0	1.61	278	1	1
meiotic chromosome segregation	1	0	0.32	279	1	1
cell fate commitment	1	0	0.32	280	1	1
amino sugar catabolic process	1	0	0.32	281	1	1
carboxylic acid biosynthetic process	1	0	0.32	282	1	1
membrane lipid catabolic process	2	0	0.64	283	1	1
organ development	2	0	0.64	284	1	1
system development	2	0	0.64	285	1	1
genitalia development	2	0	0.64	286	1	1
cellular developmental process	1	0	0.32	287	1	1
chemical homeostasis	1	0	0.32	288	1	1
ion homeostasis	1	0	0.32	289	1	1
regulation of multicellular organismal p...	1	0	0.32	290	1	1
positive regulation of multicellular org...	1	0	0.32	291	1	1
meiotic cell cycle	1	0	0.32	292	1	1
M phase of meiotic cell cycle	1	0	0.32	293	1	1
cellular response to stimulus	2	0	0.64	294	1	1
response to protein stimulus	2	0	0.64	295	1	1
di-, tri-valent inorganic cation homeost...	1	0	0.32	296	1	1
iron ion homeostasis	1	0	0.32	297	1	1
cation homeostasis	1	0	0.32	298	1	1
cellular chemical homeostasis	1	0	0.32	299	1	1
transmembrane transport	1	0	0.32	300	1	1
oxidation reduction	1	0	0.32	301	1	1
regulation of biological quality	1	0	0.32	302	1	1

Table 9 (contd)