Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
fatty acid metabolic process	3	2	0.91	1	0.22	0.22
organic acid metabolic process	6	3	1.83	2	0.26	0.26
carboxylic acid metabolic process	6	3	1.83	3	0.26	0.26
lipid metabolic process	9	4	2.74	4	0.27	0.27
metabolic process	56	19	17.04	5	0.28	0.28
M phase	1	1	0.3	6	0.3	0.3
polysaccharide metabolic process	1	1	0.3	7	0.3	0.3
chitin metabolic process	1	1	0.3	8	0.3	0.3
chitin catabolic process	1	1	0.3	9	0.3	0.3
amino sugar metabolic process	1	1	0.3	10	0.3	0.3
glucosamine metabolic process	1	1	0.3	11	0.3	0.3
glucosamine catabolic process	1	1	0.3	12	0.3	0.3
N-acetylglucosamine metabolic process	1	1	0.3	13	0.3	0.3
N-acetylglucosamine catabolic process	1	1	0.3	14	0.3	0.3
translation	1	1	0.3	15	0.3	0.3
glutamine metabolic process	1	1	0.3	16	0.3	0.3
glutamine biosynthetic process	1	1	0.3	17	0.3	0.3
acyl-CoA metabolic process	1	1	0.3	18	0.3	0.3
cell cycle	1	1	0.3	19	0.3	0.3
chromosome segregation	1	1	0.3	20	0.3	0.3
meiosis	1	1	0.3	21	0.3	0.3
glutamine family amino acid metabolic pr...	1	1	0.3	22	0.3	0.3
glutamine family amino acid biosynthetic...	1	1	0.3	23	0.3	0.3
gas transport	1	1	0.3	24	0.3	0.3
oxygen transport	1	1	0.3	25	0.3	0.3
cell cycle process	1	1	0.3	26	0.3	0.3
cell cycle phase	1	1	0.3	27	0.3	0.3
meiotic chromosome segregation	1	1	0.3	28	0.3	0.3
amino sugar catabolic process	1	1	0.3	29	0.3	0.3
meiotic cell cycle	1	1	0.3	30	0.3	0.3
M phase of meiotic cell cycle	1	1	0.3	31	0.3	0.3
transmembrane transport	1	1	0.3	32	0.3	0.3
gene expression	4	2	1.22	33	0.36	0.36
monocarboxylic acid metabolic process	4	2	1.22	34	0.36	0.36
cellular biopolymer biosynthetic process	4	2	1.22	35	0.36	0.36
biopolymer biosynthetic process	4	2	1.22	36	0.36	0.36
macromolecule metabolic process	23	8	7	37	0.39	0.39
biopolymer metabolic process	23	8	7	38	0.39	0.39
macromolecule biosynthetic process	5	2	1.52	39	0.48	0.48
cellular macromolecule biosynthetic proc...	5	2	1.52	40	0.48	0.48
cellular lipid metabolic process	5	2	1.52	41	0.48	0.48
primary metabolic process	41	13	12.48	42	0.49	0.49
proteolysis	15	5	4.57	43	0.5	0.5
DNA packaging	2	1	0.61	44	0.52	0.52
establishment or maintenance of chromati...	2	1	0.61	45	0.52	0.52
chromatin assembly or disassembly	2	1	0.61	46	0.52	0.52
nucleosome assembly	2	1	0.61	47	0.52	0.52
cellular amino acid and derivative metab...	2	1	0.61	48	0.52	0.52
amino acid metabolic process	2	1	0.61	49	0.52	0.52
coenzyme metabolic process	2	1	0.61	50	0.52	0.52
nitrogen compound metabolic process	2	1	0.61	51	0.52	0.52
defense response	2	1	0.61	52	0.52	0.52
organelle organization	2	1	0.61	53	0.52	0.52
amino acid biosynthetic process	2	1	0.61	54	0.52	0.52
cellular amine metabolic process	2	1	0.61	55	0.52	0.52
amine biosynthetic process	2	1	0.61	56	0.52	0.52
cellular component assembly	2	1	0.61	57	0.52	0.52
chromatin assembly	2	1	0.61	58	0.52	0.52
cellular macromolecular complex subunit ...	2	1	0.61	59	0.52	0.52
cellular macromolecular complex assembly	2	1	0.61	60	0.52	0.52
cellular nitrogen compound metabolic pro...	2	1	0.61	61	0.52	0.52
nucleosome organization	2	1	0.61	62	0.52	0.52
macromolecular complex subunit organizat...	2	1	0.61	63	0.52	0.52
nitrogen compound biosynthetic process	2	1	0.61	64	0.52	0.52
cofactor metabolic process	2	1	0.61	65	0.52	0.52
chromosome organization	2	1	0.61	66	0.52	0.52
macromolecular complex assembly	2	1	0.61	67	0.52	0.52
protein-DNA complex assembly	2	1	0.61	68	0.52	0.52
cellular biopolymer metabolic process	22	7	6.7	69	0.53	0.53
cellular macromolecule metabolic process	22	7	6.7	70	0.53	0.53
protein metabolic process	19	6	5.78	71	0.55	0.55
cellular protein metabolic process	19	6	5.78	72	0.55	0.55
transport	17	5	5.17	73	0.64	0.64
localization	17	5	5.17	74	0.64	0.64
establishment of localization	17	5	5.17	75	0.64	0.64

Table 8

Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
transcription	3	1	0.91	76	0.67	0.67
transcription, DNA-dependent	3	1	0.91	77	0.67	0.67
regulation of transcription, DNA-depende...	3	1	0.91	78	0.67	0.67
regulation of biosynthetic process	3	1	0.91	79	0.67	0.67
regulation of gene expression	3	1	0.91	80	0.67	0.67
regulation of macromolecule biosynthetic...	3	1	0.91	81	0.67	0.67
carbohydrate catabolic process	3	1	0.91	82	0.67	0.67
RNA metabolic process	3	1	0.91	83	0.67	0.67
regulation of nucleobase, nucleoside, nu...	3	1	0.91	84	0.67	0.67
regulation of metabolic process	3	1	0.91	85	0.67	0.67
regulation of cellular metabolic process	3	1	0.91	86	0.67	0.67
regulation of cellular biosynthetic proc...	3	1	0.91	87	0.67	0.67
RNA biosynthetic process	3	1	0.91	88	0.67	0.67
regulation of transcription	3	1	0.91	89	0.67	0.67
regulation of RNA metabolic process	3	1	0.91	90	0.67	0.67
regulation of macromolecule metabolic pr...	3	1	0.91	91	0.67	0.67
cellular metabolic process	35	10	10.65	92	0.69	0.69
biosynthetic process	11	3	3.35	93	0.71	0.71
locomotion	11	3	3.35	94	0.71	0.71
cellular biosynthetic process	11	3	3.35	95	0.71	0.71
cellular process	46	13	14	96	0.73	0.73
response to stress	4	1	1.22	97	0.77	0.77
cellular component organization	4	1	1.22	98	0.77	0.77
embryonic development ending in birth or...	17	4	5.17	99	0.83	0.83
nematode larval development	5	1	1.52	100	0.84	0.84
larval development	5	1	1.52	101	0.84	0.84
catabolic process	5	1	1.52	102	0.84	0.84
post-embryonic development	5	1	1.52	103	0.84	0.84
regulation of cellular process	5	1	1.52	104	0.84	0.84
embryonic development	18	4	5.48	105	0.87	0.87
response to stimulus	10	2	3.04	106	0.87	0.87
carbohydrate metabolic process	6	1	1.83	107	0.89	0.89
behavior	6	1	1.83	108	0.89	0.89
oviposition	6	1	1.83	109	0.89	0.89
reproductive behavior	6	1	1.83	110	0.89	0.89
multicellular organism reproduction	6	1	1.83	111	0.89	0.89
reproductive behavior in a multicellular...	6	1	1.83	112	0.89	0.89
reproductive process in a multicellular ...	6	1	1.83	113	0.89	0.89
aging	11	2	3.35	114	0.9	0.9
determination of adult life span	11	2	3.35	115	0.9	0.9
multicellular organismal aging	11	2	3.35	116	0.9	0.9
nucleobase, nucleoside, nucleotide and n...	7	1	2.13	117	0.93	0.93
reproductive process	7	1	2.13	118	0.93	0.93
reproduction	13	2	3.96	119	0.95	0.95
multicellular organismal development	35	7	10.65	120	0.97	0.97
multicellular organismal process	39	8	11.87	121	0.97	0.97
developmental process	37	7	11.26	122	0.98	0.98
regulation of biological process	23	3	7	123	0.99	0.99
regulation of growth rate	19	2	5.78	124	0.99	0.99
positive regulation of growth rate	19	2	5.78	125	0.99	0.99
biological regulation	24	3	7.3	126	0.99	0.99
regulation of growth	20	2	6.09	127	1	1
positive regulation of growth	20	2	6.09	128	1	1
positive regulation of biological proces...	20	2	6.09	129	1	1
growth	23	2	7	130	1	1
biological_process	115	35	35	131	1	1
transition metal ion transport	1	0	0.3	132	1	1
peptidoglycan metabolic process	2	0	0.61	133	1	1
gastrulation with mouth forming first	1	0	0.3	134	1	1
cell fate specification	1	0	0.3	135	1	1
morphogenesis of an epithelium	1	0	0.3	136	1	1
reproductive developmental process	2	0	0.61	137	1	1
monosaccharide metabolic process	1	0	0.3	138	1	1
fucose metabolic process	1	0	0.3	139	1	1
L-fucose biosynthetic process	1	0	0.3	140	1	1
mannose metabolic process	1	0	0.3	141	1	1
cellular alcohol metabolic process	1	0	0.3	142	1	1
purine base metabolic process	1	0	0.3	143	1	1
purine nucleotide metabolic process	3	0	0.91	144	1	1
purine nucleotide biosynthetic process	3	0	0.91	145	1	1
IMP biosynthetic process	3	0	0.91	146	1	1
'de novo' IMP biosynthetic process	2	0	0.61	147	1	1
protein folding	1	0	0.3	148	1	1
protein modification process	3	0	0.91	149	1	1
protein amino acid phosphorylation	1	0	0.3	150	1	1

Table 8 (contd)

Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
protein amino acid glycosylation	1	0	0.3	151	1	1
asparagine metabolic process	1	0	0.3	152	1	1
asparagine biosynthetic process	1	0	0.3	153	1	1
fatty acid biosynthetic process	1	0	0.3	154	1	1
membrane lipid metabolic process	2	0	0.61	155	1	1
phospholipid metabolic process	2	0	0.61	156	1	1
sphingolipid metabolic process	2	0	0.61	157	1	1
sphingomyelin metabolic process	2	0	0.61	158	1	1
sphingomyelin catabolic process	2	0	0.61	159	1	1
cellular aromatic compound metabolic pro...	2	0	0.61	160	1	1
group transfer coenzyme metabolic proces...	1	0	0.3	161	1	1
nucleoside phosphate metabolic process	3	0	0.91	162	1	1
folic acid and derivative metabolic proc...	1	0	0.3	163	1	1
phosphorus metabolic process	2	0	0.61	164	1	1
phosphate metabolic process	2	0	0.61	165	1	1
ion transport	3	0	0.91	166	1	1
cation transport	2	0	0.61	167	1	1
sodium ion transport	1	0	0.3	168	1	1
phosphate transport	1	0	0.3	169	1	1
anion transport	1	0	0.3	170	1	1
iron ion transport	1	0	0.3	171	1	1
lipid transport	6	0	1.83	172	1	1
cellular ion homeostasis	1	0	0.3	173	1	1
cellular iron ion homeostasis	1	0	0.3	174	1	1
ER-nuclear signaling pathway	2	0	0.61	175	1	1
response to unfolded protein	2	0	0.61	176	1	1
cell wall organization	2	0	0.61	177	1	1
cell communication	3	0	0.91	178	1	1
cell adhesion	1	0	0.3	179	1	1
cell-matrix adhesion	1	0	0.3	180	1	1
signal transduction	2	0	0.61	181	1	1
intracellular signaling cascade	2	0	0.61	182	1	1
gastrulation	1	0	0.3	183	1	1
pattern specification process	1	0	0.3	184	1	1
sex differentiation	2	0	0.61	185	1	1
protein-based cuticle development	1	0	0.3	186	1	1
lipid biosynthetic process	1	0	0.3	187	1	1
aspartate family amino acid metabolic pr...	1	0	0.3	188	1	1
aspartate family amino acid biosynthetic...	1	0	0.3	189	1	1
glycoprotein metabolic process	1	0	0.3	190	1	1
glycoprotein biosynthetic process	1	0	0.3	191	1	1
coenzyme biosynthetic process	1	0	0.3	192	1	1
nucleobase metabolic process	1	0	0.3	193	1	1
purine base biosynthetic process	1	0	0.3	194	1	1
nucleotide metabolic process	3	0	0.91	195	1	1
nucleoside monophosphate metabolic proce...	3	0	0.91	196	1	1
nucleoside monophosphate biosynthetic pr...	3	0	0.91	197	1	1
purine nucleoside monophosphate metaboli...	3	0	0.91	198	1	1
purine nucleoside monophosphate biosynth...	3	0	0.91	199	1	1
purine ribonucleotide metabolic process	3	0	0.91	200	1	1
purine ribonucleotide biosynthetic proce...	3	0	0.91	201	1	1
ribonucleoside monophosphate biosyntheti...	3	0	0.91	202	1	1
ribonucleoside monophosphate metabolic p...	3	0	0.91	203	1	1
nucleotide biosynthetic process	3	0	0.91	204	1	1
purine ribonucleoside monophosphate meta...	3	0	0.91	205	1	1
purine ribonucleoside monophosphate bios...	3	0	0.91	206	1	1
nucleotide-sugar metabolic process	1	0	0.3	207	1	1
nucleotide-sugar biosynthetic process	1	0	0.3	208	1	1
peptidoglycan catabolic process	2	0	0.61	209	1	1
ribonucleotide metabolic process	3	0	0.91	210	1	1
ribonucleotide biosynthetic process	3	0	0.91	211	1	1
phospholipid catabolic process	2	0	0.61	212	1	1
folic acid and derivative biosynthetic p...	1	0	0.3	213	1	1
response to biotic stimulus	2	0	0.61	214	1	1
anatomical structure morphogenesis	5	0	1.52	215	1	1
embryonic pattern specification	1	0	0.3	216	1	1
body morphogenesis	3	0	0.91	217	1	1
monovalent inorganic cation transport	1	0	0.3	218	1	1
di-, tri-valent inorganic cation transpo...	1	0	0.3	219	1	1
inorganic anion transport	1	0	0.3	220	1	1
lipid catabolic process	2	0	0.61	221	1	1
carbohydrate biosynthetic process	1	0	0.3	222	1	1
organic acid biosynthetic process	1	0	0.3	223	1	1
phosphorylation	1	0	0.3	224	1	1
protein processing	1	0	0.3	225	1	1
intein-mediated protein splicing	1	0	0.3	226	1	1

Table 8 (contd)

Term	Annotated	Significant	Expected	Rank in classic Fisher	classic Fisher	elim Fisher
cell wall catabolic process	2	0	0.61	227	1	1
molting cycle, protein-based cuticle	1	0	0.3	228	1	1
molting cycle, collagen and cuticulin-ba...	1	0	0.3	229	1	1
hexose metabolic process	1	0	0.3	230	1	1
hexose biosynthetic process	1	0	0.3	231	1	1
GDP-mannose metabolic process	1	0	0.3	232	1	1
cellular homeostasis	1	0	0.3	233	1	1
biological adhesion	1	0	0.3	234	1	1
metal ion transport	2	0	0.61	235	1	1
cellular cation homeostasis	1	0	0.3	236	1	1
cellular di-, tri-valent inorganic catio...	1	0	0.3	237	1	1
sphingolipid catabolic process	2	0	0.61	238	1	1
cell differentiation	1	0	0.3	239	1	1
protein splicing	1	0	0.3	240	1	1
endoplasmic reticulum unfolded protein r...	2	0	0.61	241	1	1
cell-substrate adhesion	1	0	0.3	242	1	1
cellular response to stress	2	0	0.61	243	1	1
nucleobase, nucleoside and nucleotide bi...	1	0	0.3	244	1	1
cellular response to unfolded protein	2	0	0.61	245	1	1
cellular carbohydrate biosynthetic proce...	1	0	0.3	246	1	1
nucleobase, nucleoside, nucleotide and n...	1	0	0.3	247	1	1
response to endoplasmic reticulum stress	2	0	0.61	248	1	1
multicellular organism growth	1	0	0.3	249	1	1
collagen and cuticulin-based cuticle dev...	1	0	0.3	250	1	1
regulation of locomotion	1	0	0.3	251	1	1
regulation of multicellular organism gro...	1	0	0.3	252	1	1
positive regulation of locomotion	1	0	0.3	253	1	1
positive regulation of multicellular org...	1	0	0.3	254	1	1
hermaphrodite genitalia development	2	0	0.61	255	1	1
response to chemical stimulus	2	0	0.61	256	1	1
molting cycle	1	0	0.3	257	1	1
cuticle development	1	0	0.3	258	1	1
GDP-L-fucose biosynthetic process	1	0	0.3	259	1	1
fucose biosynthetic process	1	0	0.3	260	1	1
L-fucose metabolic process	1	0	0.3	261	1	1
pigment metabolic process	1	0	0.3	262	1	1
homeostatic process	1	0	0.3	263	1	1
biopolymer modification	3	0	0.91	264	1	1
biopolymer glycosylation	1	0	0.3	265	1	1
post-translational protein modification	2	0	0.61	266	1	1
cell wall metabolic process	2	0	0.61	267	1	1
cellular lipid catabolic process	2	0	0.61	268	1	1
cellular catabolic process	2	0	0.61	269	1	1
cellular carbohydrate metabolic process	1	0	0.3	270	1	1
cell fate commitment	1	0	0.3	271	1	1
external encapsulating structure organiz...	2	0	0.61	272	1	1
IMP metabolic process	3	0	0.91	273	1	1
nucleobase biosynthetic process	1	0	0.3	274	1	1
pigment biosynthetic process	1	0	0.3	275	1	1
alcohol biosynthetic process	1	0	0.3	276	1	1
monosaccharide biosynthetic process	1	0	0.3	277	1	1
GDP-L-fucose metabolic process	1	0	0.3	278	1	1
carboxylic acid biosynthetic process	1	0	0.3	279	1	1
membrane lipid catabolic process	2	0	0.61	280	1	1
heterocycle metabolic process	2	0	0.61	281	1	1
organ development	2	0	0.61	282	1	1
embryonic morphogenesis	1	0	0.3	283	1	1
system development	2	0	0.61	284	1	1
genitalia development	2	0	0.61	285	1	1
anatomical structure development	7	0	2.13	286	1	1
cellular developmental process	1	0	0.3	287	1	1
chemical homeostasis	1	0	0.3	288	1	1
ion homeostasis	1	0	0.3	289	1	1
cofactor biosynthetic process	1	0	0.3	290	1	1
regulation of multicellular organismal p...	1	0	0.3	291	1	1
positive regulation of multicellular org...	1	0	0.3	292	1	1
cellular response to stimulus	2	0	0.61	293	1	1
response to protein stimulus	2	0	0.61	294	1	1
di-, tri-valent inorganic cation homeost...	1	0	0.3	295	1	1
iron ion homeostasis	1	0	0.3	296	1	1
cation homeostasis	1	0	0.3	297	1	1
cellular chemical homeostasis	1	0	0.3	298	1	1
nucleobase, nucleoside and nucleotide me...	3	0	0.91	299	1	1
oxidation reduction	1	0	0.3	300	1	1
regulation of biological quality	1	0	0.3	301	1	1
glycosylation	1	0	0.3	302	1	1

Table 8 (contd)