

Table S6 GO terms for the 928 mRNAs enriched after 18 hours of U0126 treatment in *puf-8*; *lip-1* relative to 18 hours of vehicle DMSO control treatment in *puf-8*; *lip-1*

Category	Term	Count	%	FDR
Biological Process	GO:0007049~cell cycle	65	7.1	2.2E-15
Biological Process	GO:0022402~cell cycle process	59	6.4	6.9E-14
Biological Process	GO:0006259~DNA metabolic process	39	4.2	6.3E-13
Biological Process	GO:0003006~reproductive developmental process	110	12.0	9.1E-13
Biological Process	GO:0007126~meiosis	39	4.2	1.8E-12
Biological Process	GO:0051327~M phase of meiotic cell cycle	39	4.2	2.3E-12
Biological Process	GO:0051321~meiotic cell cycle	39	4.2	7.7E-12
Biological Process	GO:0022403~cell cycle phase	48	5.2	2.6E-11
Biological Process	GO:0007059~chromosome segregation	34	3.7	3.9E-10
Biological Process	GO:0045132~meiotic chromosome segregation	30	3.3	1.1E-09
Biological Process	GO:0007548~sex differentiation	95	10.3	2.7E-09
Biological Process	GO:0048806~genitalia development	84	9.1	7.6E-08
Biological Process	GO:0033554~cellular response to stress	25	2.7	1.0E-07
Biological Process	GO:0006974~response to DNA damage stimulus	21	2.3	1.5E-07
Biological Process	GO:0006281~DNA repair	19	2.1	4.8E-07
Biological Process	GO:0007276~gamete generation	31	3.4	1.3E-06
Biological Process	GO:0010564~regulation of cell cycle process	13	1.4	3.9E-06
Biological Process	GO:0009410~response to xenobiotic stimulus	6	0.7	7.5E-06
Biological Process	GO:0002009~morphogenesis of an epithelium	45	4.9	7.7E-06
Biological Process	GO:0060429~epithelium development	45	4.9	1.1E-05
Biological Process	GO:0051726~regulation of cell cycle	16	1.7	1.2E-05
Biological Process	GO:0019953~sexual reproduction	34	3.7	1.6E-05
Biological Process	GO:0048729~tissue morphogenesis	45	4.9	2.2E-05
Biological Process	GO:0051445~regulation of meiotic cell cycle	9	1.0	3.6E-05
Biological Process	GO:0040020~regulation of meiosis	8	0.9	3.9E-05
Biological Process	GO:0007281~germ cell development	14	1.5	5.0E-05
Biological Process	GO:0048477~oogenesis	20	2.2	5.0E-05
Biological Process	GO:0051276~chromosome organization	24	2.6	5.5E-05

Molecular Function	GO:0004518~nuclease activity	15	1.6	1.3E-04
Biological Process	GO:0040008~regulation of growth	169	18.4	1.4E-04
Biological Process	GO:0043933~macromolecular complex subunit organization	21	2.3	1.4E-04
Biological Process	GO:0040010~positive regulation of growth rate	151	16.4	1.5E-04
Biological Process	GO:0007292~female gamete generation	20	2.2	1.6E-04
Biological Process	GO:0045927~positive regulation of growth	163	17.7	2.3E-04
Biological Process	GO:0032504~multicellular organism reproduction	51	5.5	3.1E-04
Biological Process	GO:0065003~macromolecular complex assembly	19	2.1	3.8E-04
Biological Process	GO:0040007~growth	122	13.3	3.9E-04
Biological Process	GO:0042006~masculinization of hermaphroditic germ-line	6	0.7	4.4E-04
Biological Process	GO:0048580~regulation of post-embryonic development	23	2.5	4.7E-04
Biological Process	GO:0010608~posttranscriptional regulation of gene expression	12	1.3	6.3E-04
Biological Process	GO:0006417~regulation of translation	8	0.9	9.7E-04
Biological Process	GO:0006325~chromatin organization	16	1.7	1.1E-03
Molecular Function	GO:0003684~damaged DNA binding	5	0.5	1.5E-03
Molecular Function	GO:0003702~RNA polymerase II transcription factor activity	9	1.0	1.5E-03
Biological Process	GO:0009791~post-embryonic development	148	16.1	1.9E-03
Biological Process	GO:0048610~reproductive cellular process	14	1.5	2.3E-03
Biological Process	GO:0002164~larval development	146	15.9	2.4E-03
Biological Process	GO:0042127~regulation of cell proliferation	8	0.9	2.5E-03