

Supplemental Table 11: Pathway analysis results performed on DETGs repressed in HM compared to LM EACs (Binom. Test, p-unadj).

		Reference (Homo sapiens)	Input Gene List				
Annotation Data Set	Term	Gene_Count	Gene_Count	Expected	Over/Under-enrichment	Fold_Enrichment	P-unadj
Slim Biological Process	asymmetric protein localization (GO:0008105)	12	1	0.04	+	22.77	4.30E-02
	sulfur compound metabolic process (GO:0006790)	78	2	0.29	+	7.01	3.35E-02
	amino acid transport (GO:0006865)	79	2	0.29	+	6.92	3.43E-02
	protein phosphorylation (GO:0006468)	80	2	0.29	+	6.83	3.50E-02
	gamete generation (GO:0007276)	161	3	0.59	+	5.09	2.15E-02
	synaptic transmission (GO:0007268)	328	5	1.2	+	4.17	7.19E-03
	reproduction (GO:0000003)	266	4	0.97	+	4.11	1.67E-02
	mesoderm development (GO:0007498)	278	4	1.02	+	3.93	1.92E-02
	cell adhesion (GO:0007155)	336	4	1.23	+	3.25	3.51E-02
	biological adhesion (GO:0022610)	336	4	1.23	+	3.25	3.51E-02
	cell-cell signaling (GO:0007267)	513	6	1.88	+	3.2	1.14E-02
	system process (GO:0003008)	910	7	3.33	+	2.1	4.90E-02
	developmental process (GO:0032502)	1569	11	5.74	+	1.92	2.74E-02
	single-multicellular organism process (GO:0044707)	1463	10	5.35	+	1.87	4.05E-02
	multicellular organismal process (GO:0032501)	1479	10	5.41	+	1.85	4.31E-02
	response to stimulus (GO:0050896)	2677	4	9.8	-	0.41	2.57E-02
Slim Molecular Function	kinase inhibitor activity (GO:0019210)	30	2	0.11	+	18.22	5.54E-03
	actin binding (GO:0003779)	133	3	0.49	+	6.16	1.31E-02