

Supplementary Table S2. Gene ontology terms significantly enriched ($P < 0.05$, $FC > 2$) in the distal small intestine (ANTI vs. CON). FDR, false discovery rate.

#	GO term	Description	Number in input list	Number in BG/Ref	p-value	FDR
1	GO:0006954	inflammatory response	37	193	3.80E-13	5.50E-10
2	GO:0006955	immune response	49	312	2.70E-13	5.50E-10
3	GO:0002455	humoral immune response mediated by circulating immunoglobulin	15	33	4.70E-12	2.70E-09
4	GO:0002376	immune system process	61	474	3.70E-12	2.70E-09
5	GO:0006958	complement activation, classical pathway	15	33	4.70E-12	2.70E-09
6	GO:0002526	acute inflammatory response	21	71	6.30E-12	3.00E-09
7	GO:0006952	defense response	49	342	8.10E-12	3.30E-09
8	GO:0009611	response to wounding	44	294	1.90E-11	6.90E-09
9	GO:0006959	humoral immune response	18	55	2.90E-11	9.20E-09
10	GO:0002541	activation of plasma proteins involved in acute inflammatory response	16	43	3.80E-11	9.90E-09
11	GO:0006956	complement activation	16	43	3.80E-11	9.90E-09
12	GO:0010876	lipid localization	9	11	4.80E-11	1.20E-08
13	GO:0051605	protein maturation by peptide bond cleavage	17	52	1.00E-10	2.30E-08
14	GO:0016064	immunoglobulin mediated immune response	17	53	1.40E-10	2.80E-08
15	GO:0019724	B cell mediated immunity	17	53	1.40E-10	2.80E-08
16	GO:0002253	activation of immune response	18	62	2.70E-10	4.80E-08
17	GO:0002460	adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	17	61	1.70E-09	2.70E-07
18	GO:0002250	adaptive immune response	17	61	1.70E-09	2.70E-07
19	GO:0045087	innate immune response	19	77	1.80E-09	2.80E-07
20	GO:0002449	lymphocyte mediated immunity	17	62	2.20E-09	3.10E-07
21	GO:0050778	positive regulation of immune response	18	72	3.80E-09	5.20E-07
22	GO:0002443	leukocyte mediated immunity	17	65	4.80E-09	6.30E-07
23	GO:0009605	response to external stimulus	52	454	6.00E-09	7.30E-07
24	GO:0016485	protein processing	18	74	6.10E-09	7.30E-07
25	GO:0002684	positive regulation of immune system process	21	101	7.50E-09	8.60E-07
26	GO:0051604	protein maturation	18	76	9.60E-09	1.10E-06
27	GO:0002682	regulation of immune system process	25	145	1.70E-08	1.90E-06
28	GO:0050776	regulation of immune response	19	89	2.40E-08	2.40E-06
29	GO:0048584	positive regulation of response to stimulus	20	105	7.70E-08	7.70E-06
30	GO:0002252	immune effector process	18	93	2.60E-07	2.50E-05
31	GO:0048583	regulation of response to stimulus	24	183	5.20E-06	0.00049
32	GO:0050896	response to stimulus	105	1444	1.70E-05	0.0015
33	GO:0006957	complement activation, alternative pathway	5	10	4.30E-05	0.0037
34	GO:0019882	antigen processing and presentation	12	66	4.50E-05	0.0038
35	GO:0034641	cellular nitrogen compound metabolic process	28	264	5.10E-05	0.0042
36	GO:0006950	response to stress	68	881	6.40E-05	0.0052
37	GO:0006508	proteolysis	36	401	0.00017	0.013
38	GO:0006935	chemotaxis	11	68	0.00027	0.02
39	GO:0042330	taxis	11	68	0.00027	0.02
40	GO:0019835	cytolysis	5	16	0.00059	0.042

