

Supplementary table S1: Enrichment of GO terms with more than 5% overlap with top differentially regulated genes in mothers.

GO term	Gene Set Name	K ¹	k ²	k/K	p-value	FDR q-value	Group
GO:0035455	RESPONSE TO INTERFERON ALPHA	20	5	0,25	5,2E-08	3,6E-06	Interferon
GO:0045071	NEGATIVE REGULATION OF VIRAL GENOME REPLICATION	49	10	0,204	7,9E-14	3,89E-11	Viral
GO:0048008	PLATELET DERIVED GROWTH FACTOR RECEPTOR SIGNALING PATHWAY	34	6	0,177	2,16E-08	1,77E-06	Other
GO:0034340	RESPONSE TO TYPE I INTERFERON	68	11	0,162	6,74E-14	3,74E-11	Interferon
GO:0045069	REGULATION OF VIRAL GENOME REPLICATION	75	11	0,147	2,09E-13	9,25E-11	Viral
GO:0048525	NEGATIVE REGULATION OF VIRAL PROCESS	89	10	0,112	4,08E-11	8,23E-09	Viral
GO:0051607	DEFENSE RESPONSE TO VIRUS	164	15	0,092	1,1E-14	2,29E-11	Viral
GO:0006903	VESICLE TARGETING	77	7	0,091	1,6E-07	9,96E-06	Other
GO:0006901	VESICLE COATING	75	6	0,08	2,7E-06	1,2E-04	Other
GO:0043903	REGULATION OF SYMBIOSIS ENCOMPASSING MUTUALISM THROUGH PARASITISM	205	16	0,078	1,73E-14	2,29E-11	Viral
GO:0043901	NEGATIVE REGULATION OF MULTI ORGANISM PROCESS	151	11	0,0728	4,84E-10	7,41E-08	Viral
GO:0006900	MEMBRANE BUDDING	114	8	0,0702	1,58E-07	9,86E-06	Other
GO:0009615	RESPONSE TO VIRUS	247	17	0,0688	2,06E-14	2,29E-11	Viral
GO:0000819	SISTER CHROMATID SEGREGATION	176	9	0,0511	4,0E-07	2,22E-05	Other

¹K=Number of genes in gene set, ²k=Number of genes in overlap

Supplementary table S2: Enrichment of GO terms with more than 5% overlap with top differentially regulated genes in neonates.

GO term	Gene Set Name	K ¹	k ²	k/K	p-value	FDR q-value	Group
GO:0034340	RESPONSE TO TYPE I INTERFERON	68	15	0,2206	5,93E-22	2,63E-18	Interferon
GO:0035455	RESPONSE TO INTERFERON ALPHA	20	4	0,2	1,5E-06	7,78E-05	Interferon
GO:0032069	REGULATION OF NUCLEASE ACTIVITY	23	4	0,1739	2,7E-06	1,3E-04	Other
GO:0045071	NEGATIVE REGULATION OF VIRAL GENOME REPLICATION	49	8	0,1633	3,68E-11	9,07E-09	Viral
GO:0045824	NEGATIVE REGULATION OF INNATE IMMUNE RESPONSE	38	6	0,1579	1,37E-08	1,27E-06	Immune system
GO:0045069	REGULATION OF VIRAL GENOME REPLICATION	75	8	0,1067	1,25E-09	1,81E-07	Viral
GO:0060333	INTERFERON GAMMA MEDIATED SIGNALING PATHWAY	70	7	0,1	2,2E-08	1,91E-06	Interferon
GO:0048525	NEGATIVE REGULATION OF VIRAL PROCESS	89	8	0,0899	4,98E-09	5,39E-07	Viral
GO:0051607	DEFENSE RESPONSE TO VIRUS	164	13	0,0793	3,6E-13	1,33E-10	Viral
GO:0043901	NEGATIVE REGULATION OF MULTI ORGANISM PROCESS	151	11	0,0728	6,11E-11	1,36E-08	Viral
GO:0009615	RESPONSE TO VIRUS	247	17	0,0688	8,15E-16	7,23E-13	Viral
GO:0050777	NEGATIVE REGULATION OF IMMUNE RESPONSE	121	8	0,0661	5,65E-08	4,56E-06	Immune system
GO:0071346	CELLULAR RESPONSE TO INTERFERON GAMMA	122	8	0,0656	6,03E-08	4,78E-06	Interferon
GO:0034341	RESPONSE TO INTERFERON GAMMA	144	9	0,0625	1,34E-08	1,27E-06	Interferon
GO:0031348	NEGATIVE REGULATION OF DEFENSE RESPONSE	144	8	0,0556	2,17-07	1,51E-05	Immune system
GO:0043903	REGULATION OF SYMBIOSIS ENCOMPASSING MUTUALISM THROUGH PARASITISM	205	11	0,0537	1,6E-09	2,03E-07	Viral
GO:0006511	PROTEIN UBIQUITINATION INVOLVED IN UBIQUITIN DEPENDENT PROTEIN CATABOLIC PROCESS	134	7	0,0522	1,92E-06	9,77E-05	Other

¹K=Number of genes in gene set, ²k=Number of genes in overlap