Supplementary file

July 23, 2022

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1 Data pre-processing

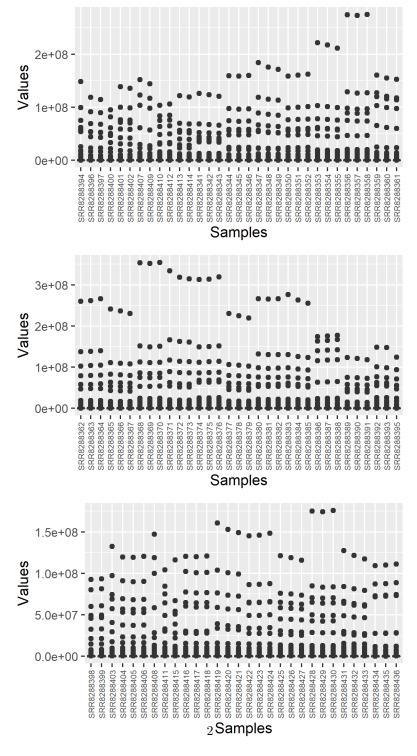


Figure 1: Raw counts

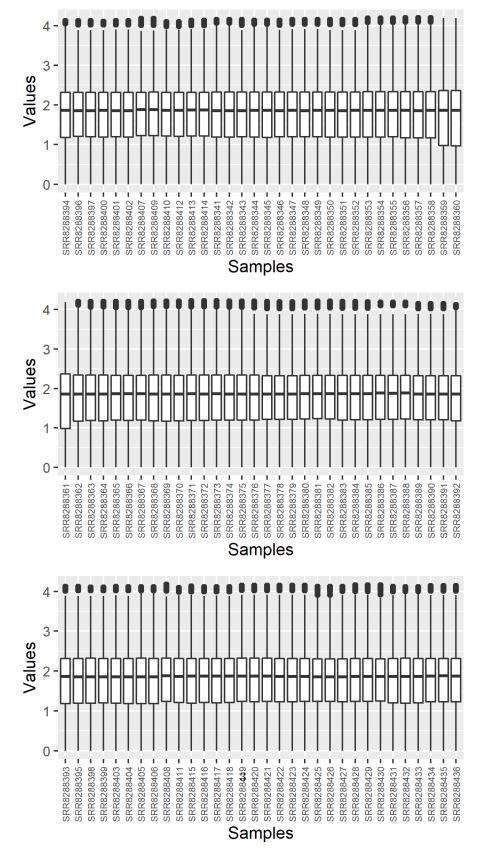


Figure 2: Processed counts

2 Helustering results

Figure 3: Helustering result, all-ages case

Hierarchical clustering Transgenic vs Wild-type - all ages

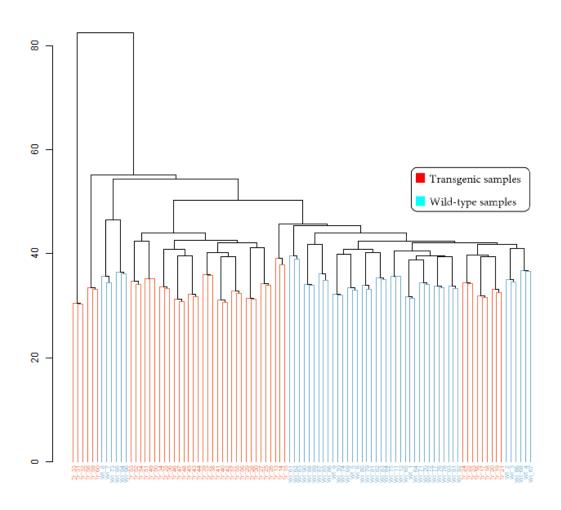
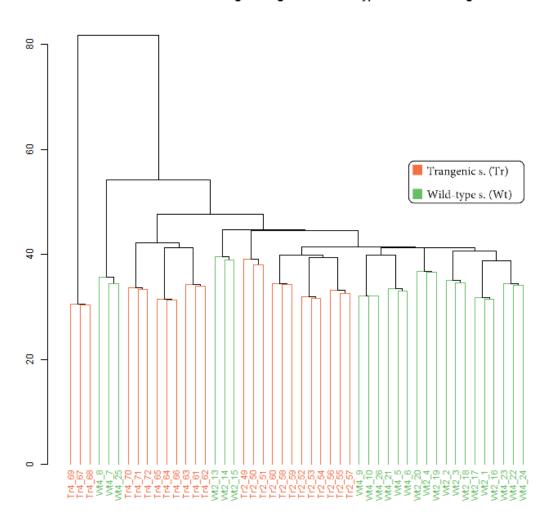


Figure 4: H
clustering result, $young\ samples$ case

Hierarchical clustering Transgenic vs Wild-type - 2-4 months age



3 Importance values

Figure 5: Importance results, *all-ages* case

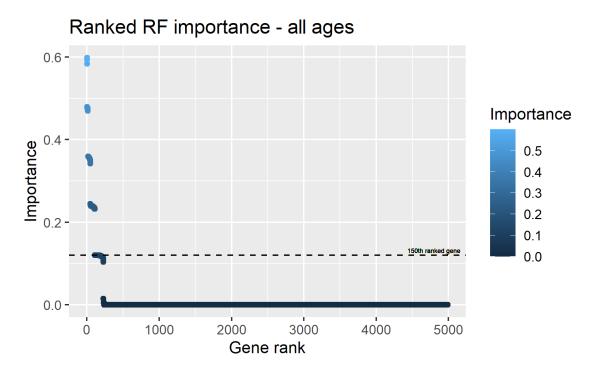
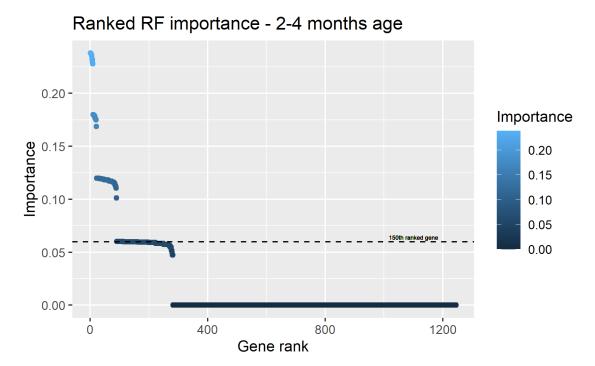
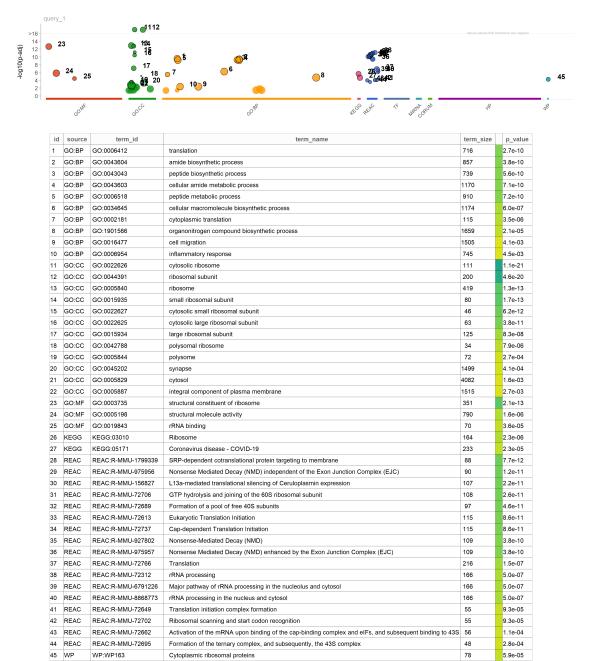


Figure 6: Importance results, $young\ samples$ case



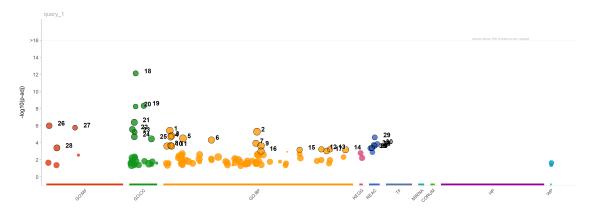
4 Enrichment results

Figure 7: Enrichment g:plot, all-ages case



g:Profiler (biit.cs.ut.ee/gprofiler

Figure 8: Enrichment g:plot, young samples case



id	source	term_id	term_name	term_size	p_value
1	GO:BP	GO:0002376	immune system process	2849	3.9e-06
2	GO:BP	GO:0048731	system development	4533	5.1e-06
3	GO:BP	GO:0002682	regulation of immune system process	1507	1.6e-05
4	GO:BP	GO:0002520	immune system development	1080	2.1e-05
5	GO:BP	GO:0007275	multicellular organism development	5045	3.1e-05
6	GO:BP	GO:0030097	hemopoiesis	970	4.9e-05
7	GO:BP	GO:0048534	hematopoietic or lymphoid organ development	1016	1.2e-04
8	GO:BP	GO:0002521	leukocyte differentiation	605	2.1e-04
9	GO:BP	GO:0051239	regulation of multicellular organismal process	2854	2.3e-04
10	GO:BP	GO:0001775	cell activation	1165	2.4e-04
11	GO:BP	GO:0002684	positive regulation of immune system process	994	2.5e-04
12	GO:BP	GO:1902107	positive regulation of leukocyte differentiation	184	5.8e-04
13	GO:BP	GO:1903708	positive regulation of hemopoiesis	184	5.8e-04
14	GO:BP	GO:2000026	regulation of multicellular organismal development	1494	6.6e-04
15	GO:BP	GO:0097529	myeloid leukocyte migration	221	6.8e-04
16	GO:BP	GO:0051241	negative regulation of multicellular organismal process	1078	9.5e-04
17	GO:BP	GO:1903131	mononuclear cell differentiation	468	9.6e-04
18	GO:CC	GO:0022626	cytosolic ribosome	111	7.5e-13
19	GO:CC	GO:0044391	ribosomal subunit	200	4.7e-09
20	GO:CC	GO:0022625	cytosolic large ribosomal subunit	63	5.7e-09
21	GO:CC	GO:0009986	cell surface	1117	4.1e-07
22	GO:CC	GO:0005840	ribosome	419	2.7e-06
23	GO:CC	GO:0015934	large ribosomal subunit	125	5.5e-06
24	GO:CC	GO:0009897	external side of plasma membrane	594	2.0e-05
25	GO:CC	GO:0098552	side of membrane	792	3.6e-05
26	GO:MF	GO:0003735	structural constituent of ribosome	351	1.0e-06
27	GO:MF	GO:0019843	rRNA binding	70	1.7e-06
28	GO:MF	GO:0005198	structural molecule activity	790	4.1e-04
29	REAC	REAC:R-MMU-975956	Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)	90	2.4e-05
30	REAC	REAC:R-MMU-1799339	SRP-dependent cotranslational protein targeting to membrane	88	1.5e-04
31	REAC	REAC:R-MMU-156827	L13a-mediated translational silencing of Ceruloplasmin expression	107	1.9e-04
32	REAC	REAC:R-MMU-975957	Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (EJC)	109	2.3e-04
33	REAC	REAC:R-MMU-927802	Nonsense-Mediated Decay (NMD)	109	2.3e-04
34	REAC	REAC:R-MMU-72689	Formation of a pool of free 40S subunits	97	4.2e-04
35	REAC	REAC:R-MMU-72737	Cap-dependent Translation Initiation	115	4.4e-04
36	REAC	REAC:R-MMU-72613	Eukaryotic Translation Initiation	115	4.4e-04

g:Profiler (biit.cs.ut.ee/gprofile)

