a

days post infection Mean values

Gene Symbol	0.5	1	2	4	7
Interferons					
Ifna1	0.00	36.51	41.02	0.00	0.00
Ifna2	0	33.39	63.94	0	0
Ifna4	0.00	30.00	48.32	0.00	0.00
Ifna6	0.00	17.45	0.00	0.00	0.00
Ifna9	0.00	0.00	13.13	0.00	0.00
Ifna12	0.00	38.34	62.76	0.00	0.00
Ifna13	0.00	19.54	0.00	0.00	0.00
Ifnab	0.00	35.90	56.30	0.00	0.00
Ifnb1	0.00	40.04	88.28	60.19	0.00
Ifng	0.00	36.51	74.29	54.00	96.29
Interferon Receptors					
Ifnar1	26.96	-4.21	0.00	-8.39	0.00
Ifnar2	0.00	1.70	8.43	0.00	0.00
Ifngr2	0.00	0.00	0.00	12.02	0.00
Interferon Stimulated Genes (ISG)					
Isg15	0.00	84.51	89.33	85.56	77.47
Isg20	0.00	49.22	80.23	48.97	0.00
Interferon Regulated Factors (IRF)					
Irf1	0.00	64.02	58.01	0.00	15.12
Irf2	3.31	33.44	23.24	0.00	0.00
Irf3	9.14	0.00	0.00	0.00	0.00
Irf4	0.00	0.00	-12.91	0.00	16.27
Irf5	0.00	0.00	59.28	38.83	33.03
Irf6	0.00	-13.11	0.00	-10.92	-17.57
Irf7	0.00	95.38	98.41	98.95	92.61
Irf8	0.00	0.00	27.58	24.10	17.37
Irf9	0.00	68.41	53.60	55.90	23.47

Mean(Ifna1): 14.618
Mean(Ifnb1): 42.3373
Mean(Ifng): 42.5546
Mean(Ifnar1): 0.03745
Mean(Ifnar2): 2.84283
Mean(Ifngr2): 2.53746

Ranked change vs dpi. Legend: Ifna1, Ifnb1, Ifng, Ifnar1, Ifnar2, Ifngr2

b

Ranked Change vs dpi. Age Group: <10 weeks old, 52 weeks old, 20-23 weeks old. Viral Strain (ranked): MA15e, MA15g, MA15. Viral Dose (PFU): 100, 1000, 10000, 100000. Legend: Ifna1, Ifnb1, Ifng, Ifnar1, Ifnar2, Ifngr2

c

Bioset 1 (Bs1) — SARS-CoV_2 day post-infection mouse Lung 19 Bioset Meta-signature. 4886. ↑ Up-regulated genes: 2184. ↓ Down-regulated genes: 2702

Bioset 2 (Bs2) — Bone marrow macrophages + MOI 5 L. monocytogenes 6hr - IFNAR KO _vs_ wildtype. 5627. ↑ Up-regulated genes: 3748. ↓ Down-regulated genes: 1879

Common genes (all): Bs1 3130, overlap 1756, Bs2 3871. Overlap p-value: 8.5E-143

Significance of overlaps between gene subsets. -log (p-value).
p-value: 0.8335 — 208 genes Bs1↑ Bs2↑
p-value: 0.9741 — 139 genes Bs1↓ Bs2↓
p-value: 1.1E-269 — 637 genes Bs1↑ Bs2↓
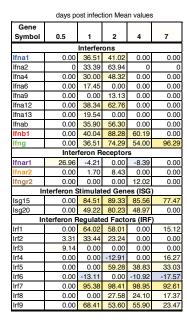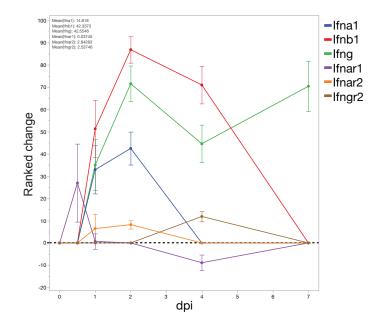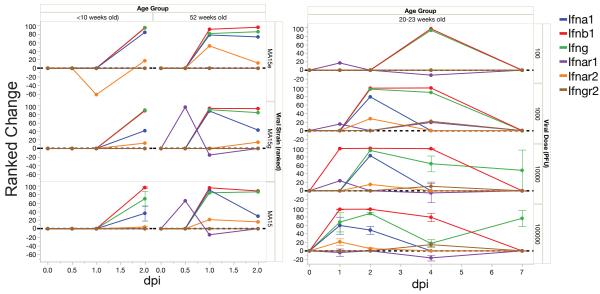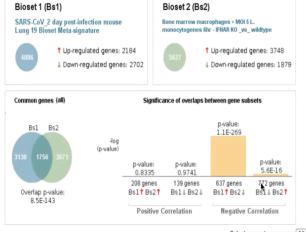p-value: 5.6E-16 — 772 genes Bs1↓ Bs2↑
Positive Correlation / Negative Correlation

Select genes to compare: All genes