BV-BRC Test Report

D15. Experiments Tab

Item to test	Experiments Data Tab for bacterial and host response datasets						
URL	https://www.bv-brc.org/view/Taxonomy/1763#view_tab=experiments https://www.bv-brc.org/view/Genome/10090.24#view_tab=experiments						
Prerequisites None							
References	https://www.bv-brc.org/docs/quick_references/organisms_taxon/experiments.html						
Tester(s)	Rebecca Wattam, Zach Wallace, Ron Kenyon						
Test date	10-Feb-22 (original - passed), 9-May-2022 (follow-up - passed)						
Test result	Passed						

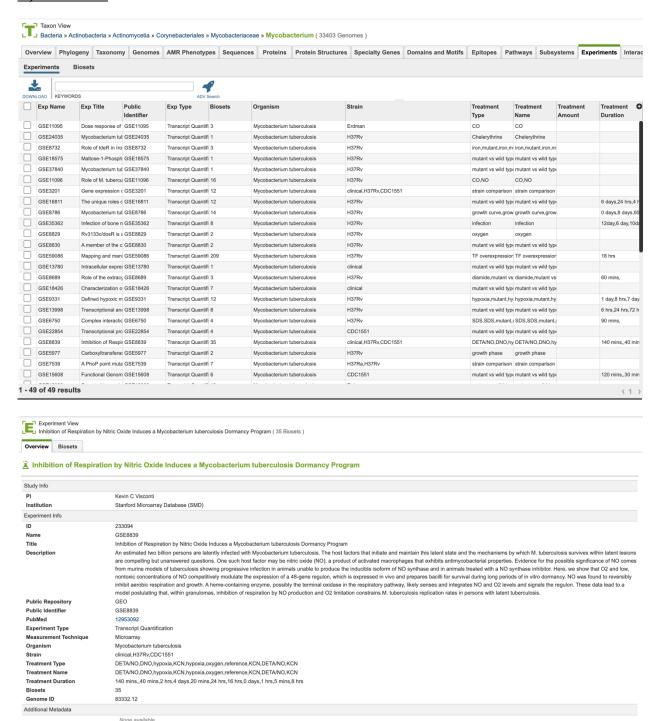
Overview

- Test the Experiment Data Tab with example bacterial and mouse host response datasets.
- Test Filters / facets on the experiment page.
- Select single experiment and review experiment details.
- Test interactive gene list, heatmap viewer, and clustering tool.

Test Results

- Test results were verified by examination of returned data via inspection.
- All operations performed as expected, except download, which did not work.

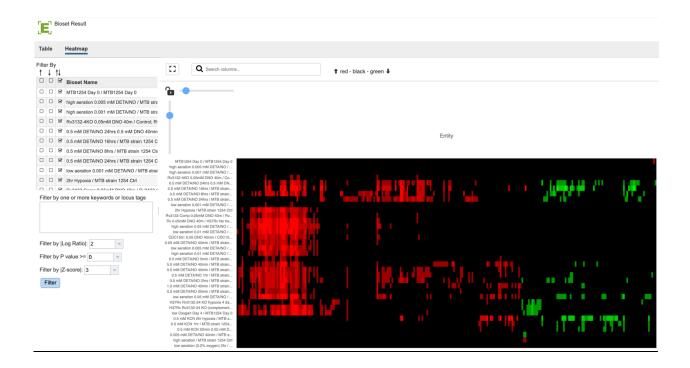
Mycobacterium:



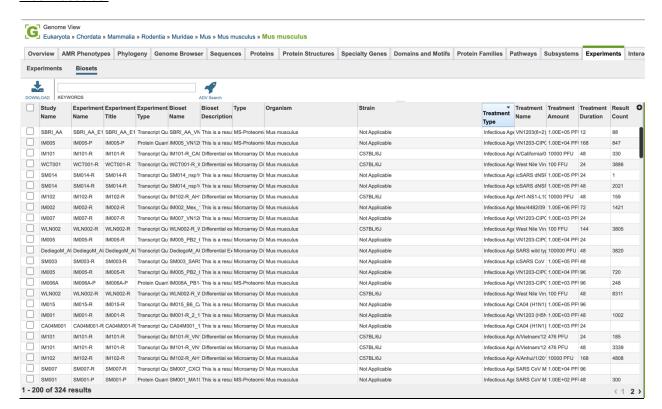


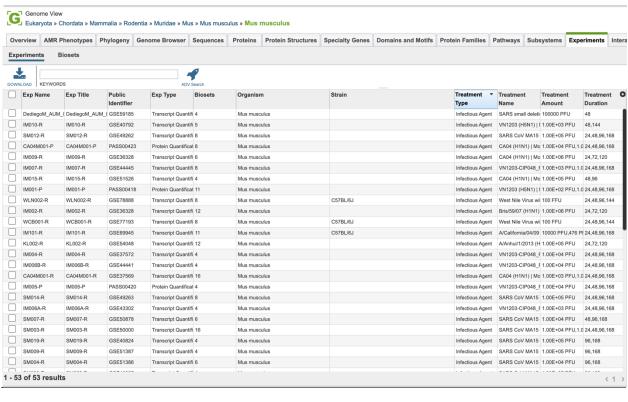
	Study Name	Experiment Name	Experiment Title	Experiment Type		Bioset Description	Туре	Organism	Strain	Treatment Type	Treatment Name	Treatment Amount	Treatment Duration	Result (٥
		GSE8839	Inhibition of R	Transcript Qu	high aeration		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO			3839	Π.
		GSE8839	Inhibition of R	Transcript Qu	Rv3132-4KO		Differential	Mycobacterium tuberculosis	H37Rv	DNO	DNO		40 mins	3839	1
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		24 hrs	3839	1
		GSE8839	Inhibition of R	Transcript Qu	Rv3133 Com		Differential	Mycobacterium tuberculosis	H37Rv	DNO	DNO		40 mins	3839	1
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		5 mins	3839	1
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM KCN		Differential	Mycobacterium tuberculosis	clinical	KCN,hypoxia	KCN,hypoxia		2 hrs	3839	1
		GSE8839	Inhibition of R	Transcript Qu	MTB1254 Da		Differential	Mycobacterium tuberculosis	clinical	reference	reference		0 days	3839	1
		GSE8839	Inhibition of R	Transcript Qu	low aeration (Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO			3839	1
		GSE8839	Inhibition of R	Transcript Qu	H37Rv Rv313		Differential	Mycobacterium tuberculosis	H37Rv	hypoxia	hypoxia		4 days	3839	П
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		16 hrs	3839	П
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		140 mins	3839	П
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		1 hrs	3839	1
		GSE8839	Inhibition of R	Transcript Qu	1.0 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		40 mins	3839	1
		GSE8839	Inhibition of R	Transcript Qu	high aeration		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO			3839	ı
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		24 hrs	3839	1
		GSE8839	Inhibition of R	Transcript Qu	low aeration (Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO			3839	П
		GSE8839	Inhibition of R	Transcript Qu	low aeration (Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO			3839	П
		GSE8839	Inhibition of R	Transcript Qu	high aeration		Differential	Mycobacterium tuberculosis	clinical	oxygen	oxygen			3839	П
		GSE8839	Inhibition of R	Transcript Qu	2hr Hypoxia /		Differential	Mycobacterium tuberculosis	clinical	hypoxia	hypoxia		2 hrs	3839	П
		GSE8839	Inhibition of R	Transcript Qu	0.05 mM DET		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		40 mins	3839	1
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		8 hrs	3839	П
		GSE8839	Inhibition of R	Transcript Qu	H37Rv Rv313		Differential	Mycobacterium tuberculosis	H37Rv	hypoxia	hypoxia		4 days	3839	П
		GSE8839	Inhibition of R	Transcript Qu	high aeration		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO			3839	U
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		20 mins	3839	
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM KCN		Differential	Mycobacterium tuberculosis	clinical	KCN	KCN		1 hrs	3839	
		GSE8839	Inhibition of R	Transcript Qu	Rv 0.05mM D		Differential	Mycobacterium tuberculosis	H37Rv	DETA/NO	DETA/NO		40 mins	3839	
		GSE8839	Inhibition of R	Transcript Qu	0.5 mM DETA		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO		2 hrs	3839	
		GSE8839	Inhibition of R	Transcript Qu	high aeration		Differential	Mycobacterium tuberculosis	clinical	DETA/NO	DETA/NO			3839	
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Table	Heatmap												
Filter By								±.					
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	Bioset Name		ID	Locus Tag	Name	Samples	Up	Down					
	high aeration 0.005 mM DETA/NO / MTB stra		fig 83332.12.peg.640	Rv0577	27 kDa antigen Cfp30B	35	14	21					
	Rv3132-4KO 0.05mM DNO 40m / Control; R		fig 83332.12.peg.2552	Rv2289	CDP-diacylglycerol pyrophosphata	35	7	28					
	0.5 mM DETA/NO 24hrs 0.5 mM DNO 40min		fig 83332.12.peg.1098	Rv0985c	Large-conductance mechanosens	35	11	24					
	Rv3133 Comp 0.05mM DNO 40m / Rv3133 (fig 83332.12.peg.327	Rv0295c	Sulfotransferase	35	17	18					
	0.5 mM DETA/NO 5min / MTB strain 1254 Ct		fig 83332.12.peg.599	Rv0540	Uncharacterized nucleoside dipho	35	20	15					
	0.5 mM KCN 2hr hypoxia / MTB strain 1254 (fig 83332.12.peg.2980	Rv2670c	AFG1 family ATPase	35	9	26					
	MTB1254 Day 0 / MTB1254 Day 0		fig 83332.12.peg.3777	Rv3381c	Insertion element IS6110 (Mycoba	35	15	20					
	low aeration 0.001 mM DETA/NO / MTB strai		fig 83332.12.peg.2059	Rv1847	Putative esterase	34	23	11					
	H37Rv Rv3132-34 KO hypoxia 4 day / H37R		fig 83332.12.peg.541	Rv0489	Phosphoglycerate mutase (EC 5.4	35	19	16					
008	0.5 mM DETA/NO 16hrs / MTB strain 1254 C		fig 83332.12.peg.1567	Rv1402	Helicase PriA essential for oriC/Dr	35	10	25					
			fig 83332.12.peg.1486	Rv1325c	PE_PGRS family protein => PE_P	35	25	10					
Filter by o	e or more keywords or locus tags		fig 83332.12.peg.3415	Rv3061c	Acyl-CoA dehydrogenase (EC 1.3.	34	24	10					
			fig 83332.12.peg.3688	Rv3300c	Pseudouridine synthase (EC 4.2.1	35	16	19					
			fig 83332.12.peg.1974	Rv1767	Possible carboxymuconolactone d	35	18	17					
			fig 83332.12.peg.3774	Rv3379c	1-deoxy-D-xylulose 5-phosphate s	34	28	6					
Filter by II	og Ratiol: 0		fig 83332.12.peg.4046	Rv3630	putative membrane protein	35	24	11					
			fig 83332.12.peg.1967	Rv1763	Insertion element IS6110 (Mycoba	35	21	14					
Filter by F	value >= 0		fig 83332.12.peg.1306	Rv1161	Respiratory nitrate reductase alpha	35	28	7					
Filter by 2	Z-score : 0		fig 83332.12.peg.1265	Rv1129c	XRE family transcriptional regulator	35	19	16					
Filter			fig 83332.12.peg.3815	Rv3418c	Heat shock protein 10 kDa family	35	16	19					
			fig 83332.12.peg.1802	Rv1618	Acyl-CoA thioesterase II (EC 3.1.2	35	2	33					
			fig 83332.12.peg.4317	Rv3872	PE family protein => PE35, interact	35	12	23					
			fig 83332.12.peg.3271	Rv2935	Phenolpthiocerol synthesis type-I	35	19	16					
			fig 83332.12.peg.1133	Rv1018c	N-acetylglucosamine-1-phosphate	35	27	8					
			fig 83332.12.peg.3512	Rv3146	NADH-ubiquinone oxidoreductase	35	4	31					
			fig 83332.12.peg.4027	Rv3610c	Cell division-associated, ATP-depe	35	19	16					
		4.0	fini83332 12 pen 2890 00 of 3839 results	Rv2581c	MRI -fold metallo-hydrolase suner	35	22	13					
		1 - 2	SUU OI 3039 results					(1 2 3 20 >					



Mus musculus:







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Study Info

CA04M001 CA04M001 :A/CA/04/09 (H1N1) infection in C57BL6 mice with variable doses and times post infection. Title Description Purpose: To look at the host response to different doses across 4 time points after infection. Samples were collected for both transcriptomics and proteomics. General Design: 20 week-old C578I6 mice; Three Doses = 1E3, 1E4, 1E5, 1E6 (PFU); Time points of 1, 2, 4 and 7 days; -5 mice/time point for infections; 3 mice/time point for time matched mocks Michael G. Katze, Ralph Bario Experiment Info ID 169 CA04M001-R Name Title CA04M001-R CA04M001-R: Mouse infections with A/CA/04/2009 (H1N1) Description PoC Lynn Law, University of Washington, Department of Microbiology, Seattle, WA, gllaw@u.washington.edu; Michael Katze , University of Washington, Department of Microbiology, Seattle, WA, honey@u.washington.edu Experimenters Lisa Gralinski, Ralph Baric, Michael Katze Public Repository GEO GSE37569 Public Identifier 10.35094/WF4H-PY09 Experiment Type Transcript Quantification T002.0P Qiagen RNeasy Mini Protocol.pdf,T003.0P Nanochip Bioanalyzer protocol.pdf,T004.1P cRNA Probe Synthesis.pdf,T005.0P 4X44K Hyb only protocol.pdf,T006.0P Operating the Agilent Microarray Scanner.pdf **Experiment Protocol** Treatment Type Infectious Agent CA04 (H1N1) | Mock Infection Treatment Amount 1.00E+03 PFU,1.00E+04 PFU,1.00E+05 PFU,1.00E+06 PFU Treatment Duration 24,48,96,168 Riosets Genome ID 10090.24,10090.24 Additional Metadata

