

Mycobacterium:

Taxon View
 Bacteria » Actinobacteria » Actinomycetia » Corynebacteriales » Mycobacteriaceae » **Mycobacterium** (33403 Genomes)

Overview Phylogeny Taxonomy Genomes AMR Phenotypes Sequences Proteins Protein Structures Specialty Genes Domains and Motifs Epitopes Pathways Subsystems **Experiments** Interac

Experiments Biosets

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Exp Name	Exp Title	Public Identifier	Exp Type	Biosets	Organism	Strain	Treatment Type	Treatment Name	Treatment Amount	Treatment Duration
<input type="checkbox"/>	GSE11095	Dose response of	GSE11095	Transcript Quantifi	3	Mycobacterium tuberculosis	Erdman	CO	CO	
<input type="checkbox"/>	GSE24035	Mycobacterium tul	GSE24035	Transcript Quantifi	1	Mycobacterium tuberculosis	H37Rv	Chelerythrine	Chelerythrine	
<input type="checkbox"/>	GSE8732	Role of IdeR in Iro	GSE8732	Transcript Quantifi	3	Mycobacterium tuberculosis	H37Rv	iron_mutant,Iron,m	iron_mutant,Iron,m	
<input type="checkbox"/>	GSE18575	Maltose-1-Phosph	GSE18575	Transcript Quantifi	1	Mycobacterium tuberculosis	H37Rv	mutant vs wild typ	mutant vs wild typ	
<input type="checkbox"/>	GSE37840	Mycobacterium tul	GSE37840	Transcript Quantifi	1	Mycobacterium tuberculosis	H37Rv	mutant vs wild typ	mutant vs wild typ	
<input type="checkbox"/>	GSE11096	Role of M. tubercu	GSE11096	Transcript Quantifi	16	Mycobacterium tuberculosis	H37Rv	CO,NO	CO,NO	
<input type="checkbox"/>	GSE3201	Gene expression c	GSE3201	Transcript Quantifi	12	Mycobacterium tuberculosis	clinical,H37Rv,CDC1551	strain comparison	strain comparison	
<input type="checkbox"/>	GSE16811	The unique roles c	GSE16811	Transcript Quantifi	12	Mycobacterium tuberculosis	H37Rv	mutant vs wild typ	mutant vs wild typ	6 days,24 hrs,4 h
<input type="checkbox"/>	GSE8786	Mycobacterium tul	GSE8786	Transcript Quantifi	14	Mycobacterium tuberculosis	H37Rv	growth curve,grow	growth curve,grow	0 days,8 days,60
<input type="checkbox"/>	GSE35362	Infection of bone i	GSE35362	Transcript Quantifi	8	Mycobacterium tuberculosis	H37Rv	infection	infection	12day,6 day,10da
<input type="checkbox"/>	GSE8829	Rv3133cIdosR is r	GSE8829	Transcript Quantifi	2	Mycobacterium tuberculosis	H37Rv	oxygen	oxygen	
<input type="checkbox"/>	GSE8830	A member of the c	GSE8830	Transcript Quantifi	2	Mycobacterium tuberculosis	H37Rv	mutant vs wild typ	mutant vs wild typ	
<input type="checkbox"/>	GSE59086	Mapping and mani	GSE59086	Transcript Quantifi	209	Mycobacterium tuberculosis	H37Rv	TF overexpression	TF overexpression	18 hrs
<input type="checkbox"/>	GSE13780	Intracellular expres	GSE13780	Transcript Quantifi	1	Mycobacterium tuberculosis	clinical	mutant vs wild typ	mutant vs wild typ	
<input type="checkbox"/>	GSE8689	Role of the extrac	GSE8689	Transcript Quantifi	3	Mycobacterium tuberculosis	H37Rv	diamide,mutant vs	diamide,mutant vs	60 mins,
<input type="checkbox"/>	GSE18426	Characterization o	GSE18426	Transcript Quantifi	7	Mycobacterium tuberculosis	clinical	mutant vs wild typ	mutant vs wild typ	
<input type="checkbox"/>	GSE9331	Defined hypoxic m	GSE9331	Transcript Quantifi	12	Mycobacterium tuberculosis	H37Rv	hypoxia,mutant,hy	hypoxia,mutant,hy	1 day,8 hrs,7 day
<input type="checkbox"/>	GSE13998	Transcriptional an	GSE13998	Transcript Quantifi	8	Mycobacterium tuberculosis	H37Rv	mutant vs wild typ	mutant vs wild typ	6 hrs,24 hrs,72 h
<input type="checkbox"/>	GSE6750	Complex interacti	GSE6750	Transcript Quantifi	4	Mycobacterium tuberculosis	H37Rv	SDS,SDS,mutant,I	SDS,SDS,mutant,I	90 mins,
<input type="checkbox"/>	GSE22854	Transcriptional pr	GSE22854	Transcript Quantifi	4	Mycobacterium tuberculosis	CDC1551	mutant vs wild typ	mutant vs wild typ	
<input type="checkbox"/>	GSE8839	Inhibition of Respi	GSE8839	Transcript Quantifi	35	Mycobacterium tuberculosis	clinical,H37Rv,CDC1551	DETA:NO,DNO,hy	DETA:NO,DNO,hy	140 mins,,40 min
<input type="checkbox"/>	GSE5977	Carboxyltransfera	GSE5977	Transcript Quantifi	2	Mycobacterium tuberculosis	H37Rv	growth phase	growth phase	
<input type="checkbox"/>	GSE7539	A PhoP point muta	GSE7539	Transcript Quantifi	7	Mycobacterium tuberculosis	H37Ra,H37Rv	strain comparison	strain comparison	
<input type="checkbox"/>	GSE15608	Functional Genom	GSE15608	Transcript Quantifi	6	Mycobacterium tuberculosis	CDC1551	mutant vs wild typ	mutant vs wild typ	120 mins,,30 min

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Experiment View
 Inhibition of Respiration by Nitric Oxide Induces a Mycobacterium tuberculosis Dormancy Program (35 Biosets)

Overview Biosets

Inhibition of Respiration by Nitric Oxide Induces a Mycobacterium tuberculosis Dormancy Program

Study Info	
PI	Kevin C Visconti
Institution	Stanford Microarray Database (SMD)
Experiment Info	
ID	233094
Name	GSE8839
Title	Inhibition of Respiration by Nitric Oxide Induces a Mycobacterium tuberculosis Dormancy Program
Description	An estimated two billion persons are latently infected with Mycobacterium tuberculosis. The host factors that initiate and maintain this latent state and the mechanisms by which M. tuberculosis survives within latent lesions are compelling but unanswered questions. One such host factor may be nitric oxide (NO), a product of activated macrophages that exhibits antimycobacterial properties. Evidence for the possible significance of NO comes from murine models of tuberculosis showing progressive infection in animals unable to produce the inducible isoform of NO synthase and in animals treated with a NO synthase inhibitor. Here, we show that O2 and low, nontoxic concentrations of NO competitively modulate the expression of a 48-gene regulon, which is expressed in vivo and prepares bacilli for survival during long periods of in vitro dormancy. NO was found to reversibly inhibit aerobic respiration and growth. A heme-containing enzyme, possibly the terminal oxidase in the respiratory pathway, likely senses and integrates NO and O2 levels and signals the regulon. These data lead to a model postulating that, within granulomas, inhibition of respiration by NO production and O2 limitation constrains M. tuberculosis replication rates in persons with latent tuberculosis.
Public Repository	GEO
Public Identifier	GSE8839
PubMed	12953092
Experiment Type	Transcript Quantification
Measurement Technique	Microarray
Organism	Mycobacterium tuberculosis
Strain	clinical,H37Rv,CDC1551
Treatment Type	DETA:NO,DNO,hy,hypoxia,KCN,hypoxia,oxygen,reference,KCN,DETA:NO,KCN
Treatment Name	DETA:NO,DNO,hy,hypoxia,KCN,hypoxia,oxygen,reference,KCN,DETA:NO,KCN
Treatment Duration	140 mins,,40 mins,2 hrs,4 days,20 mins,24 hrs,16 hrs,0 days,1 hrs,5 mins,8 hrs
Biosets	35
Genome ID	63332.12
Additional Metadata	None available

Experiment View
 Inhibition of Respiration by Nitric Oxide Induces a Mycobacterium tuberculosis Dormancy Program (35 Biosets)

Study Name	Experiment Name	Experiment Title	Experiment Type	Bioset Name	Bioset Description	Type	Organism	Strain	Treatment Type	Treatment Name	Treatment Amount	Treatment Duration	Result Count
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	high aeration			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO			3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	Rv3132-4KO			Differential	Mycobacterium tuberculosis	H37Rv	DNO	DNO		40 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		24 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	Rv3133 Comp			Differential	Mycobacterium tuberculosis	H37Rv	DNO	DNO		40 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		5 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM KCN			Differential	Mycobacterium tuberculosis	clinical	KCN,hypoxia	KCN,hypoxia		2 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	MTB1254 Day 0			Differential	Mycobacterium tuberculosis	clinical	reference	reference		0 days	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	low aeration			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO			3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	H37Rv Rv3132-4KO			Differential	Mycobacterium tuberculosis	H37Rv	hypoxia	hypoxia		4 days	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		16 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		140 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		1 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	1.0 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		40 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	high aeration			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO			3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		24 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	low aeration			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO			3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	low aeration			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO			3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	2hr Hypoxia /			Differential	Mycobacterium tuberculosis	clinical	hypoxia	hypoxia		2 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.05 mM DET			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		40 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		8 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	H37Rv Rv3132-4KO			Differential	Mycobacterium tuberculosis	H37Rv	hypoxia	hypoxia		4 days	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	high aeration			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO			3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		20 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM KCN			Differential	Mycobacterium tuberculosis	clinical	KCN	KCN		1 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	Rv 0.05mM D			Differential	Mycobacterium tuberculosis	H37Rv	DETA:NO	DETA:NO		40 mins	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	0.5 mM DETA			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO		2 hrs	3839
<input type="checkbox"/>	GSE8839	Inhibition of R Transcript Qu	high aeration			Differential	Mycobacterium tuberculosis	clinical	DETA:NO	DETA:NO			3839

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Table	Heatmap																																																																																																																																																																																																			
<p>Filter By</p> <p>↑ ↓</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Bioset Name</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> high aeration 0.005 mM DETA:NO / MTB strain 1254 C</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Rv3132-4KO 0.05mM DNO 40m / Control; Rv3133 Comp</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> 0.5 mM DETA:NO 24hrs 0.5 mM DNO 40min</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> Rv3133 Comp 0.05mM DNO 40m / Rv3133 Comp</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> 0.5 mM DETA:NO 5min / MTB strain 1254 C</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> 0.5 mM KCN 2hr hypoxia / MTB strain 1254 C</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> MTB1254 Day 0 / MTB1254 Day 0</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> low aeration 0.001 mM DETA:NO / MTB strain 1254 C</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> H37Rv Rv3132-34 KO hypoxia 4 day / H37Rv Rv3132-34 KO hypoxia 4 day</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> 0.5 mM DETA:NO 16hrs / MTB strain 1254 C</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/> 0.5 mM DETA:NO 16hrs / MTB strain 1254 C</p> <p>Filter by one or more keywords or locus tags</p> <p>Filter by Log Ratio : 0</p> <p>Filter by P value >= 0</p> <p>Filter by Z-score : 0</p> <p>Filter</p>	<table border="1"> <thead> <tr> <th>ID</th> <th>Locus Tag</th> <th>Name</th> <th>Samples</th> <th>Up</th> <th>Down</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.640</td><td>Rv0577</td><td>27 kDa antigen Clp30B</td><td>35</td><td>14</td><td>21</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.2552</td><td>Rv2289</td><td>CDP-diacylglycerol pyrophosphate</td><td>35</td><td>7</td><td>28</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1098</td><td>Rv0985c</td><td>Large-conductance mechanosensory</td><td>35</td><td>11</td><td>24</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.327</td><td>Rv0295c</td><td>Sulfotransferase</td><td>35</td><td>17</td><td>18</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.599</td><td>Rv0540</td><td>Uncharacterized nucleoside diphosphate</td><td>35</td><td>20</td><td>15</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.2980</td><td>Rv2670c</td><td>AFG1 family ATPase</td><td>35</td><td>9</td><td>26</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.3777</td><td>Rv3381c</td><td>Insertion element IS6110 (Mycobacterium tuberculosis)</td><td>35</td><td>15</td><td>20</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.2059</td><td>Rv1847</td><td>Putative esterase</td><td>34</td><td>23</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.541</td><td>Rv0489</td><td>Phosphoglycerate mutase (EC 5.4.3.3)</td><td>35</td><td>19</td><td>16</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1567</td><td>Rv1402</td><td>Helicase PriA essential for oriC/Dn</td><td>35</td><td>10</td><td>25</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1486</td><td>Rv1325c</td><td>PE_PGRS family protein => PE_PGRS</td><td>35</td><td>25</td><td>10</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.3415</td><td>Rv3061c</td><td>Acyl-CoA dehydrogenase (EC 1.3.1.3)</td><td>34</td><td>24</td><td>10</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.3688</td><td>Rv3300c</td><td>Pseudouridine synthase (EC 4.2.1.3)</td><td>35</td><td>16</td><td>19</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1974</td><td>Rv1767</td><td>Possible carboxymuconolactone dehydratase</td><td>35</td><td>18</td><td>17</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.3774</td><td>Rv3379c</td><td>1-deoxy-D-xylulose 5-phosphate synthase</td><td>34</td><td>28</td><td>6</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.4046</td><td>Rv3630</td><td>putative membrane protein</td><td>35</td><td>24</td><td>11</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1967</td><td>Rv1763</td><td>Insertion element IS6110 (Mycobacterium tuberculosis)</td><td>35</td><td>21</td><td>14</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1306</td><td>Rv1161</td><td>Respiratory nitrate reductase alpha</td><td>35</td><td>28</td><td>7</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1265</td><td>Rv1129c</td><td>XRE family transcriptional regulator</td><td>35</td><td>19</td><td>16</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.3815</td><td>Rv3418c</td><td>Heat shock protein 10 kDa family class B</td><td>35</td><td>16</td><td>19</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1802</td><td>Rv1618</td><td>Acyl-CoA thioesterase II (EC 3.1.2.3)</td><td>35</td><td>2</td><td>33</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.4317</td><td>Rv3872</td><td>PE family protein => PE35, interactor</td><td>35</td><td>12</td><td>23</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.3271</td><td>Rv2935</td><td>Phenolphthiocerol synthesis type-I</td><td>35</td><td>19</td><td>16</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.1133</td><td>Rv1018c</td><td>N-acetylglucosamine-1-phosphate</td><td>35</td><td>27</td><td>8</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.3512</td><td>Rv3146</td><td>NADH-ubiquinone oxidoreductase</td><td>35</td><td>4</td><td>31</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.4027</td><td>Rv3610c</td><td>Cell division-associated, ATP-dependent</td><td>35</td><td>19</td><td>16</td></tr> <tr><td><input type="checkbox"/></td><td>fig 83332.12.peg.2890</td><td>Rv2581c</td><td>MRI-like metallo-β-ketolase superfamily</td><td>35</td><td>22</td><td>13</td></tr> </tbody> </table>	ID	Locus Tag	Name	Samples	Up	Down	<input type="checkbox"/>	fig 83332.12.peg.640	Rv0577	27 kDa antigen Clp30B	35	14	21	<input type="checkbox"/>	fig 83332.12.peg.2552	Rv2289	CDP-diacylglycerol pyrophosphate	35	7	28	<input type="checkbox"/>	fig 83332.12.peg.1098	Rv0985c	Large-conductance mechanosensory	35	11	24	<input type="checkbox"/>	fig 83332.12.peg.327	Rv0295c	Sulfotransferase	35	17	18	<input type="checkbox"/>	fig 83332.12.peg.599	Rv0540	Uncharacterized nucleoside diphosphate	35	20	15	<input type="checkbox"/>	fig 83332.12.peg.2980	Rv2670c	AFG1 family ATPase	35	9	26	<input type="checkbox"/>	fig 83332.12.peg.3777	Rv3381c	Insertion element IS6110 (Mycobacterium tuberculosis)	35	15	20	<input type="checkbox"/>	fig 83332.12.peg.2059	Rv1847	Putative esterase	34	23	11	<input type="checkbox"/>	fig 83332.12.peg.541	Rv0489	Phosphoglycerate mutase (EC 5.4.3.3)	35	19	16	<input type="checkbox"/>	fig 83332.12.peg.1567	Rv1402	Helicase PriA essential for oriC/Dn	35	10	25	<input type="checkbox"/>	fig 83332.12.peg.1486	Rv1325c	PE_PGRS family protein => PE_PGRS	35	25	10	<input type="checkbox"/>	fig 83332.12.peg.3415	Rv3061c	Acyl-CoA dehydrogenase (EC 1.3.1.3)	34	24	10	<input type="checkbox"/>	fig 83332.12.peg.3688	Rv3300c	Pseudouridine synthase (EC 4.2.1.3)	35	16	19	<input type="checkbox"/>	fig 83332.12.peg.1974	Rv1767	Possible carboxymuconolactone dehydratase	35	18	17	<input type="checkbox"/>	fig 83332.12.peg.3774	Rv3379c	1-deoxy-D-xylulose 5-phosphate synthase	34	28	6	<input type="checkbox"/>	fig 83332.12.peg.4046	Rv3630	putative membrane protein	35	24	11	<input type="checkbox"/>	fig 83332.12.peg.1967	Rv1763	Insertion element IS6110 (Mycobacterium tuberculosis)	35	21	14	<input type="checkbox"/>	fig 83332.12.peg.1306	Rv1161	Respiratory nitrate reductase alpha	35	28	7	<input 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<input type="checkbox"/>	fig 83332.12.peg.2980	Rv2670c	AFG1 family ATPase	35	9	26																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.3777	Rv3381c	Insertion element IS6110 (Mycobacterium tuberculosis)	35	15	20																																																																																																																																																																																														
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<input type="checkbox"/>	fig 83332.12.peg.3415	Rv3061c	Acyl-CoA dehydrogenase (EC 1.3.1.3)	34	24	10																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.3688	Rv3300c	Pseudouridine synthase (EC 4.2.1.3)	35	16	19																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.1974	Rv1767	Possible carboxymuconolactone dehydratase	35	18	17																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.3774	Rv3379c	1-deoxy-D-xylulose 5-phosphate synthase	34	28	6																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.4046	Rv3630	putative membrane protein	35	24	11																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.1967	Rv1763	Insertion element IS6110 (Mycobacterium tuberculosis)	35	21	14																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.1306	Rv1161	Respiratory nitrate reductase alpha	35	28	7																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.1265	Rv1129c	XRE family transcriptional regulator	35	19	16																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.3815	Rv3418c	Heat shock protein 10 kDa family class B	35	16	19																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.1802	Rv1618	Acyl-CoA thioesterase II (EC 3.1.2.3)	35	2	33																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.4317	Rv3872	PE family protein => PE35, interactor	35	12	23																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.3271	Rv2935	Phenolphthiocerol synthesis type-I	35	19	16																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.1133	Rv1018c	N-acetylglucosamine-1-phosphate	35	27	8																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.3512	Rv3146	NADH-ubiquinone oxidoreductase	35	4	31																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.4027	Rv3610c	Cell division-associated, ATP-dependent	35	19	16																																																																																																																																																																																														
<input type="checkbox"/>	fig 83332.12.peg.2890	Rv2581c	MRI-like metallo-β-ketolase superfamily	35	22	13																																																																																																																																																																																														

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Experiments Biosets

Exp Name	Exp Title	Public Identifier	Exp Type	Biosets	Organism	Strain	Treatment Type	Treatment Name	Treatment Amount	Treatment Duration
<input type="checkbox"/> Dediego_AUM_	DediegoM_AUM_	GSE59185	Transcript Quantifi	4	Mus musculus		Infectious Agent	SARS small deleti	100000 PFU	48
<input type="checkbox"/> IM010-R	IM010-R	GSE40792	Transcript Quantifi	5	Mus musculus		Infectious Agent	VN1203 (H5N1)	1.00E+03 PFU	48,144
<input type="checkbox"/> SM012-R	SM012-R	GSE49262	Transcript Quantifi	8	Mus musculus		Infectious Agent	SARS CoV MA15	1.00E+05 PFU	24,48,96,168
<input type="checkbox"/> CA04M001-P	CA04M001-P	PASS00423	Protein Quantificat	8	Mus musculus		Infectious Agent	CA04 (H1N1) Mo	1.00E+04 PFU,1.0	24,48,96,168
<input type="checkbox"/> IM009-R	IM009-R	GSE36328	Transcript Quantifi	6	Mus musculus		Infectious Agent	CA04 (H1N1) Mo	1.00E+06 PFU	24,72,120
<input type="checkbox"/> IM007-R	IM007-R	GSE44445	Transcript Quantifi	8	Mus musculus		Infectious Agent	VN1203-CIP048_f	1.00E+03 PFU,1.0	24,48,96,168
<input type="checkbox"/> IM015-R	IM015-R	GSE51526	Transcript Quantifi	4	Mus musculus		Infectious Agent	CA04 (H1N1) Mo	1.00E+05 PFU	48,96
<input type="checkbox"/> IM001-P	IM001-P	PASS00418	Protein Quantificat	11	Mus musculus		Infectious Agent	VN1203 (H5N1)	1.00E+02 PFU,1.0	24,48,96,168
<input type="checkbox"/> WLN002-R	WLN002-R	GSE78888	Transcript Quantifi	8	Mus musculus	C57BL/6J	Infectious Agent	West Nile Virus wil	100 FFU	24,48,96,144
<input type="checkbox"/> IM002-R	IM002-R	GSE36328	Transcript Quantifi	12	Mus musculus		Infectious Agent	Bris/59/07 (H1N1)	1.00E+06 PFU	24,72,120
<input type="checkbox"/> WCB001-R	WCB001-R	GSE77193	Transcript Quantifi	8	Mus musculus	C57BL/6J	Infectious Agent	West Nile Virus wil	100 FFU	24,48,96,144
<input type="checkbox"/> IM101-R	IM101-R	GSE69945	Transcript Quantifi	11	Mus musculus	C57BL/6J	Infectious Agent	A/California/04/09	10000 PFU,476 PI	24,48,96,168
<input type="checkbox"/> KL002-R	KL002-R	GSE54048	Transcript Quantifi	12	Mus musculus		Infectious Agent	A/Anhui/1/2013 (H	1.00E+05 PFU	24,72,120
<input type="checkbox"/> IM004-R	IM004-R	GSE37572	Transcript Quantifi	4	Mus musculus		Infectious Agent	VN1203-CIP048_f	1.00E+04 PFU	24,48,96,168
<input type="checkbox"/> IM006B-R	IM006B-R	GSE44441	Transcript Quantifi	4	Mus musculus		Infectious Agent	VN1203-CIP048_f	1.00E+04 PFU	24,48,96,168
<input type="checkbox"/> CA04M001-R	CA04M001-R	GSE37569	Transcript Quantifi	16	Mus musculus		Infectious Agent	CA04 (H1N1) Mo	1.00E+03 PFU,1.0	24,48,96,168
<input type="checkbox"/> IM005-P	IM005-P	PASS00420	Protein Quantificat	4	Mus musculus		Infectious Agent	VN1203-CIP048_f	1.00E+04 PFU	24,48,96,168
<input type="checkbox"/> SM014-R	SM014-R	GSE49263	Transcript Quantifi	8	Mus musculus		Infectious Agent	SARS CoV MA15	1.00E+05 PFU	24,48,96,168
<input type="checkbox"/> IM006A-R	IM006A-R	GSE43302	Transcript Quantifi	4	Mus musculus		Infectious Agent	VN1203-CIP048_f	1.00E+03 PFU	24,48,96,168
<input type="checkbox"/> SM007-R	SM007-R	GSE50878	Transcript Quantifi	6	Mus musculus		Infectious Agent	SARS CoV MA15	1.00E+04 PFU	48,96,168
<input type="checkbox"/> SM003-R	SM003-R	GSE50000	Transcript Quantifi	16	Mus musculus		Infectious Agent	SARS CoV MA15	1.00E+04 PFU,1.0	24,48,96,168
<input type="checkbox"/> SM019-R	SM019-R	GSE40824	Transcript Quantifi	4	Mus musculus		Infectious Agent	SARS CoV MA15	1.00E+05 PFU	96,168
<input type="checkbox"/> SM009-R	SM009-R	GSE51387	Transcript Quantifi	4	Mus musculus		Infectious Agent	SARS CoV MA15	1.00E+05 PFU	96,168
<input type="checkbox"/> SM004-R	SM004-R	GSE51386	Transcript Quantifi	6	Mus musculus		Infectious Agent	SARS CoV MA15	1.00E+04 PFU	96,168

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Overview Biosets

CA04M001-R

Study Info	
Name	CA04M001
Title	CA04M001 -A/CA/04/09 (H1N1) infection in C57BL6 mice with variable doses and times post infection.
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 C57BL6 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/timepoint for time matched mocks
PI	Michael G. Katze, Ralph Baric
Experiment Info	
ID	169
Name	CA04M001-R
Title	CA04M001-R
Description	CA04M001-R: Mouse infections with A/CA/04/2009 (H1N1)
PoC	Lynn Law, University of Washington, Department of Microbiology, Seattle, WA, glaw@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
Public Identifier	GSE37569
DOI	10.35094/WF4H-PY09
Experiment Type	Transcript Quantification
Measurement Technique	Array
Experiment Protocol	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
Organism	Mus musculus
Treatment Type	Infectious Agent
Treatment Name	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
Biosets	16
Genome ID	10090.24,10090.24
Additional Metadata	
None available	

Experiment View
CA04M001-R (16 Biosets)

Study Name	Experiment Name	Experiment Title	Experiment Type	Bioset Name	Bioset Description	Type	Organism	Strain	Treatment Type	Treatment Name	Treatment Amount	Treatment Duration	Result Count
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_1	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+03 PFI 24		
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_4	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+06 PFI 96	1470	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_7	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+03 PFI 168	612	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_1	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+06 PFI 24		
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_2	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+04 PFI 48		
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_4	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+04 PFI 96	896	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_4	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+03 PFI 96	545	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_4	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+05 PFI 96	1725	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_2	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+05 PFI 48	776	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_1	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+05 PFI 24	1	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_1	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+04 PFI 24		
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_7	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+04 PFI 168	2526	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_7	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+06 PFI 168	2728	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_2	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+03 PFI 48		
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_7	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+05 PFI 168	2872	
<input type="checkbox"/>	CA04M001	CA04M001-R	CA04M001-R	Transcript Qu	CA04M001_2	This is a resu	Microarray Di	Mus musculus	Not Applicable	Infectious Agt CA04 (H1N1)	1.00E+06 PFI 48	1323	

Bioset Result

Table Heatmap

Filter By

Bioset Name
 CA04M001_1day_E3pfu_H1N1
 CA04M001_4day_E6pfu_H1N1
 CA04M001_7day_E3pfu_H1N1
 CA04M001_1day_E6pfu_H1N1
 CA04M001_2day_E4pfu_H1N1
 CA04M001_4day_E4pfu_H1N1
 CA04M001_4day_E3pfu_H1N1
 CA04M001_4day_E5pfu_H1N1
 CA04M001_2day_E5pfu_H1N1
 CA04M001_1day_E5pfu_H1N1

Filter by one or more keywords or locus tags

Filter by |Log Ratio|: 0

Filter by P value >= 0

Filter by |Z-score|: 0

Filter

ID	Locus Tag	Name	Samples	Up	Down
<input type="checkbox"/> A_51_P432641		chemokine (c-x-c motif) ligand 10	11	11	0
<input type="checkbox"/> A_51_P307076		riken cdna 1190001m18 gene	4	4	0
<input type="checkbox"/> A_52_P67678		riken cdna 1300002k09 gene	9	9	0
<input type="checkbox"/> A_52_P381553		riken cdna 1500005i02 gene	10	10	0
<input type="checkbox"/> A_51_P160083		riken cdna 1500035n22 gene	8	0	8
<input type="checkbox"/> A_51_P199552		riken cdna 1600014c10 gene	7	7	0
<input type="checkbox"/> A_52_P148184		riken cdna 1600014c10 gene	8	8	0
<input type="checkbox"/> A_52_P77093		riken cdna 1600014c10 gene	2	2	0
<input type="checkbox"/> A_51_P236991		riken cdna 1700001p01 gene	5	5	0
<input type="checkbox"/> A_52_P284470		riken cdna 1700001p01 gene	4	4	0
<input type="checkbox"/> A_52_P52946		riken cdna 1700013e18 gene	3	1	2
<input type="checkbox"/> A_52_P1098820		riken cdna 1700018g22 gene	4	4	0
<input type="checkbox"/> A_52_P378493		riken cdna 1700021k02 gene	7	0	7
<input type="checkbox"/> A_52_P625270		riken cdna 1700024g13 gene	8	0	8
<input type="checkbox"/> A_51_P154427		riken cdna 1810065e05 gene	10	10	0
<input type="checkbox"/> A_51_P504237		riken cdna 2010106g01 gene	3	3	0
<input type="checkbox"/> A_51_P334318		riken cdna 2010110p09 gene	4	0	4
<input type="checkbox"/> A_51_P229403		riken cdna 2210415f13 gene	10	10	0
<input type="checkbox"/> A_52_P670766		riken cdna 2210415f13 gene	10	10	0
<input type="checkbox"/> A_51_P183213		riken cdna 2310007a19 gene	1	0	1
<input type="checkbox"/> A_51_P470630		riken cdna 2310014i17 gene	2	2	0
<input type="checkbox"/> A_51_P500215		riken cdna 2310016f22 gene	10	10	0
<input type="checkbox"/> A_51_P345073		riken cdna 2310020a21 gene	10	10	0
<input type="checkbox"/> A_52_P523368		riken cdna 2310020a21 gene	10	10	0
<input type="checkbox"/> A_52_P453411		riken cdna 2310031a07 gene	10	10	0
<input type="checkbox"/> A_52_P300533		riken cdna 2310043m15 gene	5	5	0
<input type="checkbox"/> A_51_P312962		riken cdna 2410004f06 gene	7	7	0

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