

GREAT version 4.0.4

current (08/19/2019 to now)

▼

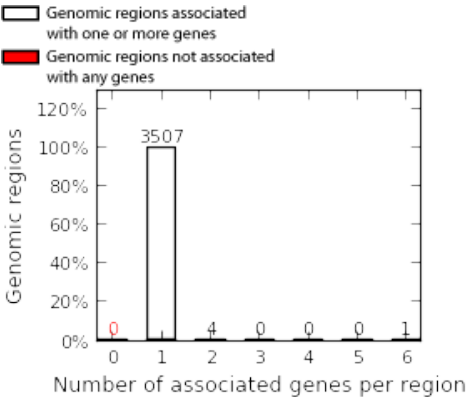
+ Job Description

+ Region-Gene Association Graphs

What do these graphs illustrate?

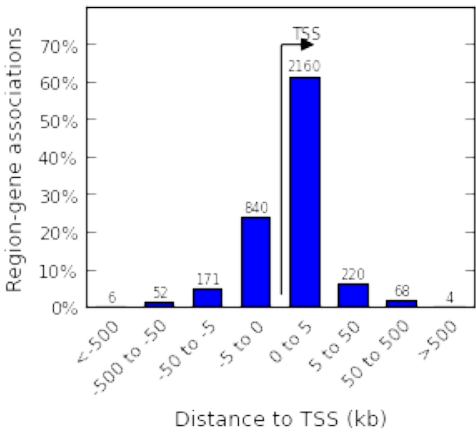
Number of associated genes per region

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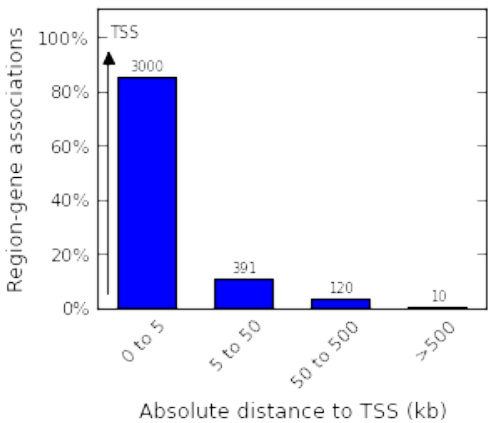
Binned by orientation and distance to TSS

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Binned by absolute distance to TSS

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+ Global Controls

Global Export

▼

Which data is exported by each option?

+ Ensembl Genes (no terms)

Global controls

- GO Biological Process (20+ terms)

Global controls

Table controls:

Export

▼

Shown top rows in this table:

20

Set

Term annotation count: Min:

1

Max:

Inf

Set

Visualize this table:

[select one]

▼

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
<a href="#">synaptic vesicle cycle</a>	32	1.9024e-7	7.7822e-5	2.4499	43	1.22%	358	1.3218e-6	2.4443	38	98	1.12%

The test set of 3,512 genomic regions picked 3,394 (16%) of all 21,395 genes. *GO Biological Process* has 13,090 terms covering 17,925 (84%) of all 21,395 genes, and 1,163,819 term - gene associations. 13,090 ontology terms (100%) were tested using an annotation count range of [1, Inf].



Table controls:

Export

Shown top rows in this table: 20

Set

Term annotation count: Min: 1

Max: Inf

Set

Visualize this table: [select one]

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
P granule	15	2.1326e-6	2.4085e-4	8.3065	9	0.26%	97	2.2166e-2	2.9860	9	19	0.27%
pi-body	25	5.4650e-5	3.7031e-3	12.8018	5	0.14%	103	2.6092e-2	4.5027	5	7	0.15%
extrinsic component of cytoplasmic side of plasma membrane	29	8.5465e-5	4.9923e-3	2.0803	34	0.97%	98	2.3244e-2	1.7350	30	109	0.88%
chromatoid body	41	4.5380e-4	1.8750e-2	5.2747	7	0.20%	112	4.6365e-2	3.1519	7	14	0.21%
synaptic vesicle membrane	48	6.4830e-4	2.2880e-2	2.0542	26	0.74%	89	1.2682e-2	1.9219	25	82	0.74%

The test set of 3,512 genomic regions picked 3,394 (16%) of all 21,395 genes.  
GO Cellular Component has 1,694 terms covering 19,074 (89%) of all 21,395 genes, and 371,380 term - gene associations.  
1,694 ontology terms (100%) were tested using an annotation count range of [1, Inf].

GO Molecular Function (14 terms)

Global controls

Table controls:

Export

Shown top rows in this table: 20

Set

Term annotation count: Min: 1

Max: Inf

Set

Visualize this table: [select one]

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
peptide receptor activity	8	5.2219e-7	2.6965e-4	2.1031	55	1.57%	38	6.9609e-10	2.5594	54	133	1.59%
G-protein coupled peptide receptor activity	15	1.8755e-6	5.1652e-4	2.0438	53	1.51%	42	3.0012e-9	2.5215	52	130	1.53%
clathrin binding	27	7.6460e-5	1.1698e-2	2.4175	25	0.71%	71	2.2497e-4	2.6361	23	55	0.68%
syntaxin binding	28	7.7439e-5	1.1425e-2	2.3676	26	0.74%	115	1.5871e-2	1.9699	25	80	0.74%
oxidoreductase activity, acting on single donors with incorporation of molecular oxygen	30	8.8354e-5	1.2166e-2	4.2172	11	0.31%	151	4.7132e-2	2.5682	11	27	0.32%
hyaluronic acid binding	36	1.8583e-4	2.1324e-2	3.8663	11	0.31%	137	3.0676e-2	2.8654	10	22	0.29%
water channel activity	37	2.0278e-4	2.2640e-2	6.0412	7	0.20%	116	1.6316e-2	4.0115	7	11	0.21%
catecholamine binding	39	2.0466e-4	2.1678e-2	3.5602	12	0.34%	80	9.2207e-4	3.6022	12	21	0.35%
neuropeptide receptor activity	44	2.5903e-4	2.4319e-2	2.1513	27	0.77%	44	4.0430e-9	3.7000	27	46	0.80%
water transmembrane transporter activity	46	3.3319e-4	2.9922e-2	5.5586	7	0.20%	132	2.9693e-2	3.6772	7	12	0.21%

The test set of 3,512 genomic regions picked 3,394 (16%) of all 21,395 genes. *GO Molecular Function* has 4,131 terms covering 17,189 (80%) of all 21,395 genes, and 227,341 term - gene associations. 4,131 ontology terms (100%) were tested using an annotation count range of [1, Inf].

## Global controls

## Global controls

Visualize this table: [select one] 


[great.stanford.edu/public/cgi-bin/greatWeb.php](http://great.stanford.edu/public/cgi-bin/greatWeb.php)

The test set of 3,512 genomic regions picked 3,394 (16%) of all 21,395 genes. *Mouse Phenotype Single KO* has 9,170 terms covering 9,466 (44%) of all 21,395 genes, and 551,620 term - gene associations. 9,170 ontology terms (100%) were tested using an annotation count range of [1, Inf].

## Global controls

Visualize this table: [select one] 

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Bejerano Lab, Stanford University

Name	Rank	P-Value	FDR Q-Val	Enrichment	Region Hits	Coverage	Rank	FDR Q-Val	Enrichment	Gene Hits	Genes	Coverage
<a href="#">impaired behavioral response to addictive substance</a>	59	1.5847e-4	2.5719e-2	2.5203	21	0.60%	580	5.8892e-4	2.5215	20	50	0.59%
<a href="#">arrest of male meiosis</a>	61	1.7174e-4	2.6958e-2	2.0023	34	0.97%	1,300	2.1924e-2	1.6126	33	129	0.97%
<a href="#">abnormal circadian temperature homeostasis</a>	62	1.7675e-4	2.7296e-2	4.2326	10	0.28%	798	2.9694e-3	3.5459	9	16	0.27%
<a href="#">abnormal cone electrophysiology</a>	65	1.8287e-4	2.6938e-2	2.0445	32	0.91%	444	8.4940e-5	2.2723	31	86	0.91%
<a href="#">abnormal vitamin A level</a>	68	1.8851e-4	2.6544e-2	5.2454	8	0.23%	1,100	1.3389e-2	3.1519	8	16	0.24%

The test set of 3,512 genomic regions picked 3,394 (16%) of all 21,395 genes.  
*Mouse Phenotype* has 9,575 terms covering 9,654 (45%) of all 21,395 genes, and 705,265 term - gene associations.  
9,575 ontology terms (100%) were tested using an annotation count range of [1, Inf].



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