



TRANSFORM genomic regions INTO pathways (input interface)

A2 Store ▾

TRANSFORM GENOMIC REGIONS INTO PATHWAYS

Identify pathways from your input genomic region list.
(for the overview, please refer to)

Step 1: Choose genome build

Genome build:

STEP 1: choose genome build (hg19, hg38 or hg18)

Step 2: Paste your genomic regions

chr10:6089841-6089841
chr10:6094697-6094697
chr10:6098824-6098824
chr10:6098949-6098949
chr10:6099045-6099045
chr10:6099045-6099045"/>

STEP 2: paste your genomic region list

- 1-based coordinates
- in the form of chromosome:start-end

Step 3: Crosslink genomic regions to genes

Crosslinked genes supported by:

Max. number of crosslinked genes:

Output crosslink info:

STEP 3: specify how to crosslink genomic regions to genes

- evident by conformation, eQTL, coexpression, etc
- focus on the top scored genes
- evidence info

Step 4: Specify pathways to use

Pathway collection:

STEP 4: specify pathway collection

Step 5: Pathway visualisation (only works for AA pathways)

Whether and what:

STEP 5: visualise which pathways

☒ More Controls

Submit

⚙ Handling your request... (please don't refresh this page)

➡ OUTPUT PAGE



TRANSFORM genes INTO pathways (output page)

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TRANSFORM GENOMIC REGIONS INTO PATHWAYS

Outputs are available via:

Table

Forest

Crosslink

Tabular output:
List of enriched pathways

Plot output:
Forest plot of enriched pathways

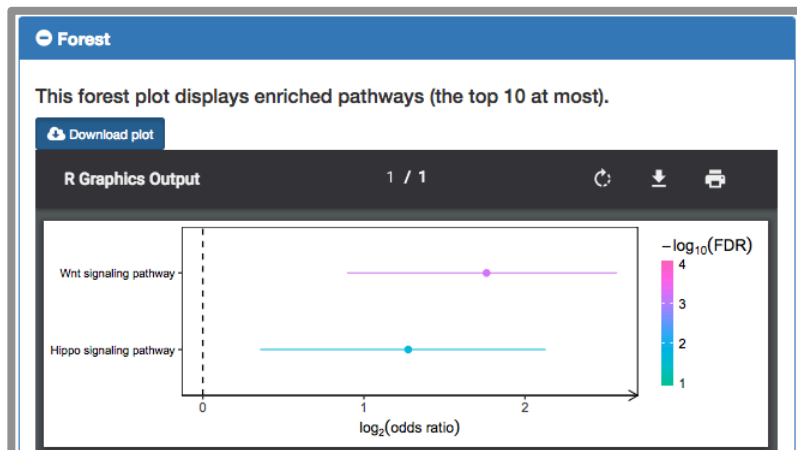
Crosslink output:
Heatmap of genes and regions

Crosslink

Crosslinked genes : 1st column 'Gene' for crosslinked genes, and 2nd column 'Score' for gene-centric score summarised over all its crosslinked genomic regions

Pairs of genomic regions and crosslinked genes : 1st column 'GR' for genomic regions (inputs), 2nd column 'Gene' for crosslinked genes, and 3rd column 'Score' for the original score between the gene and the genomic region

Heatmap for crosslinked genes (annotatable only)



Table

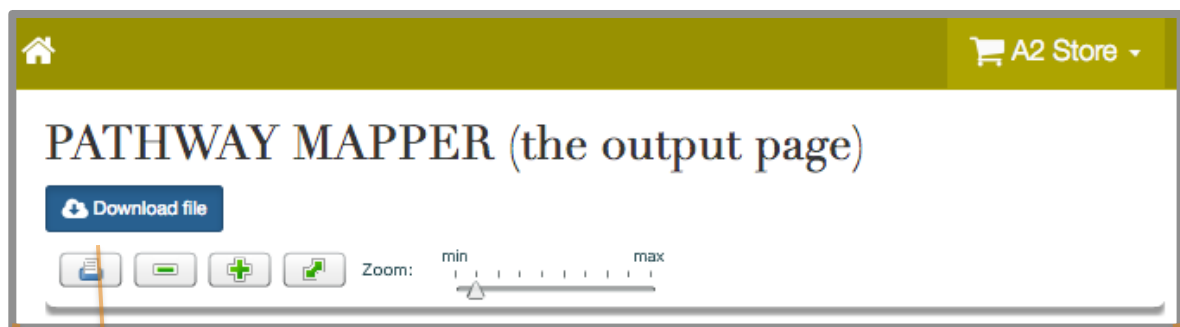
This table lists all enrichments (sorted by Odds Ratio) for crosslinked genes.
(where pathways with FDR<0.05 are highlighted in bold)

[Copy](#) [Excel](#) [Crosslinked genes](#) [Category](#) Search:

Pathway	Odds ratio	CI (95%)	Z-score	FDR	# crosslinked genes
Th17 cell differentiation	3.25	[1.48,6.56]	3.57	0.031	11
Th1 and Th2 cell differentiation	2.98	[1.25,6.37]	3.04	0.058	9
HIF-1 signaling pathway	2.36	[0.944,5.19]	2.25	0.18	8
NF-kappa B signaling pathway	2.13	[0.796,4.88]	1.86	0.23	7

[Link to Pathway Mapper](#)

Pathway Mapper (output page)



This GraphML file can be imported into yEd (<https://www.yworks.com>) for visuals and edits in a much more managable way

Symbol: CREBBP
Name: CREB binding protein
Color: -3.3

Hover for details on the gene

**Click for the
GeneCards page**

