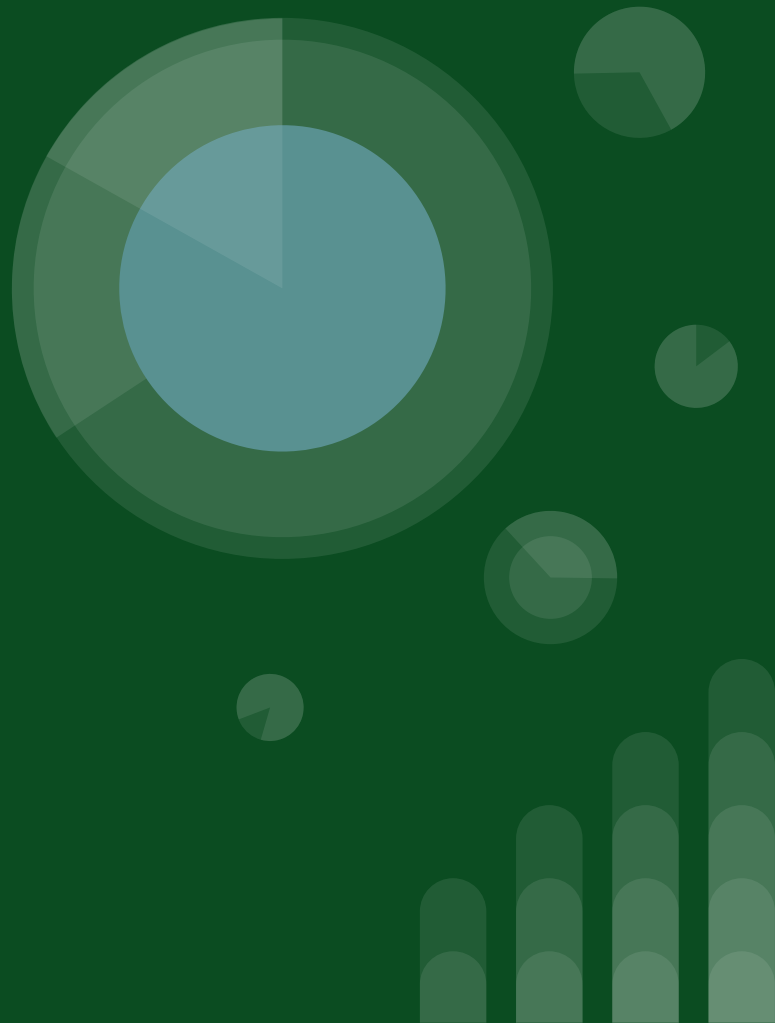


GRNsight

Kevin Patterson





What is GRNsight?

- GRNsight is an open source web application for visualizing models of small- to medium-scale gene regulatory networks.
- Joint project of the Loyola Marymount University Bioinformatics and Biomathematics Groups headed by Dr. Dahlquist, Dr. Fitzpatrick and Dr. Dionisio
- Users upload spreadsheets generated by GRNmap, which is then used to create a graph of the GRN model which is displayed using nodes and edges
- Color the edges and adjust their thickness based on the sign and strength of the relationship
- User can modify the graph for best visual layout of the network



What will I do on GRNsight?

- When you right click on a Gene on the GRNsight it opens a new page which calls different APIs to receive and display information about the Gene
- Expand the Genes that the program handles beyond yeast to handle all major model organisms
- Display the data in a more user friendly and easily readable format

User POV



GRNsight

Web app and service for visualizing models of gene regulatory networks.

A Joint Project of the
LMU Bioinformatics and
Biomathematics Groups

LMU|LA
Loyola Marymount
University



GRNsight

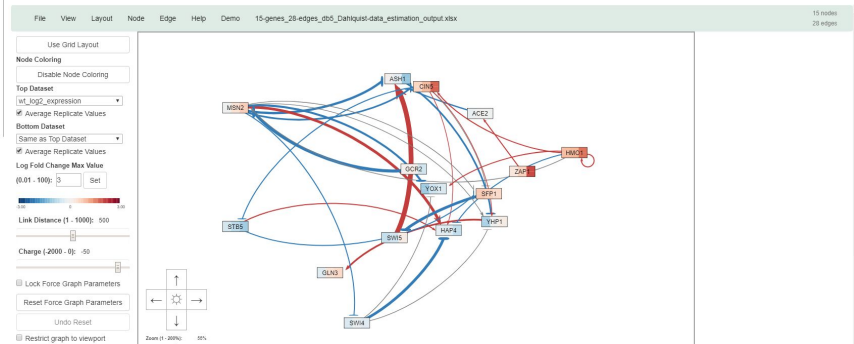
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GRNsight v4.0.0

Welcome to GRNsight. Please select a file to upload.



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5/4/2024

GCR2

Saccharomyces cerevisiae (strain ATCC 204508 / S288c)

General Information	Protein Information	Regulation	Gene Ontology	Sources
General Information				
SGD ID:	S0000053143 ^[1]			
NCBI Gene ID:	855522 ^[4]			
Ensembl ID:	YNL199C ^[3]			
Uniprot ID:	GCR2_YEAST ^[5]			
JASPAR ID:	MA0305_1 ^[6]			
Description:	Transcriptional activator of genes involved in glycolysis; interacts and functions with the DNA-binding protein Gcrp ^[3]			
Species:	<i>Saccharomyces cerevisiae</i> (strain ATCC 204508 / S288c) ^[4]			
Locus Tag:	YNL199C ^[4]			
JASPAR Family:	Not found ^[6]			
JASPAR Class:	Not found ^[6]			
Chromosome Sequence:	NC_001146.8 ^[4]			
Protein Information				
Protein:	Glycolytic genes transcriptional activator GCR2 ^[5]			
Protein Sequence:	MHGTELEWFIIRAIVLLENEFVIGSAGLGSVTNFGTTTHTFSGWPGAVGTGIANFTGLMSSISTPHIDEIISTGSHALITWISDSANTWGNSSSTSAISNAPFATGNN ASSGATSNQITGAGTSGPATIFLNTALTS88SIDRSTSPFABEILVGFQGMTELELFTASPVAVYFRSLDGRICINTDELELMLWLVNSIPFWTQGTGGLIQ GRKSHSLVETGTPAGLQDINDRNGNNGTQWGNVTVGQWPNWNSFSGTVPANPANDWNSHNSGTCSTAPNTTISNPFWLFPWLAGCCGACGLLE QVNSRSLGYVTGTPSPGGGFPLSHADINDASNTGVTWNNSSGSHWFRALSELVNTLCEAVEELQLTWTSFQKQNTTAAGALGDCPTNLANNTQWVCL NPSNNGPIDTAVIRFKEATATIEKSGQRIVLKELELQPTQWLNFGLEIENGCVRLMLDQK ^[2]			



Why you are interested

- The project relies on a lot of skills that I learned in interaction design, both frontend and backend design
- Development for a piece of an app as part of a team is a unique experience for me with both how we approached github issues and versioning.
- App is useful and contributing to its development is a good way to end my college career



Thanks for listening, any questions?