

Gene expression  
Sequence Motifs

Observed Partition  
Cases vs Controls

Random Partitions  
Null x 1000

Network Inference

Observed  
Controls  
Network

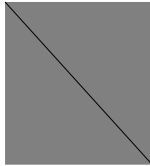
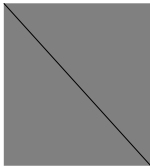
Observed  
Cases  
Network

Null  
Controls  
Network

Null  
Cases  
Network

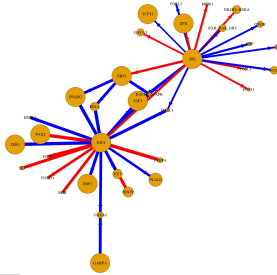
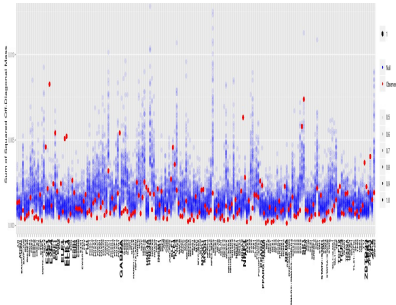
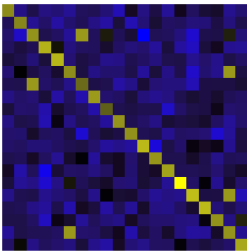
} X 1000

Transition Matrix Calculation



} X 1000

Transition Matrix Analysis



TF	qTF1	rank	FDR	LMMA	qTF1	rank	FDR	LMMA	qTF1	rank	FDR	LMMA
SP2	0.0371	1	<.0001	0.1756	0.012	9	0.9717	0.6517	0.0184	11	0.7842	0.0075
EPF4	0.036	2	<.0001	0.3613	0.0132	7	0.0003	0.9367	0.011	41	0.039	0.0878
SP1	0.0286	3	0.0004	0.3634	0.0136	5	0.0080	0.9038	0.0113	38	0.9236	0.4242
NPY1	0.0282	4	<.0001	0.5666	0.0133	6	0.0060	0.9045	0.0104	43	0.0379	0.2974
EGR1	0.0265	5	<.0001	0.4379	0.0094	21	0.9717	0.854	0.0112	39	0.9236	0.7979
GABPA	0.0253	6	<.0001	0.465	0.0189	1	<.0001	0.5138	0.021	7	<.0001	0.3888
ELK4	0.0245	7	<.0001	0.0011	0.0159	3	<.0001	0.8057	0.0178	9	<.0001	0.0183
ELK1	0.0233	8	<.0001	0.0123	0.0185	2	<.0001	0.9101	0.0122	32	0.0011	0.7968
KLF4	0.0227	9	<.0001	0.1915	0.0119	10	0.4573	0.0025	0.0129	22	0.437	0.0526
EPF1	0.0207	10	<.0001	0.6629	0.0089	23	0.4024	0.6465	0.0079	66	0.3789	0.0022
ESR1	0.014	17	0.0002	0.9586	0.0142	4	0.0040	0.9693	0.0125	26	0.0033	0.7246
NF1B	0.0135	29	0.8988	0.9404	0.0061	49	0.4484	0.1191	0.0239	4	0.0458	0.7635
FOXQ1	0.0114	31	0.9643	0.4543	0.0106	14	0.9752	0.5314	0.0196	8	0.1031	0.0503
IRF2	0.0108	37	0.4149	0.1914	0.009	22	0.531	0.8237	0.0168	10	0.0083	0.2469
PLA1B	0.0103	44	0.4706	0.0384	0.0127	8	0.4024	0.0008	0.0154	13	0.0541	0.0371
JUNB	0.0065	75	0.8736	0.0197	0.0047	79	0.5201	0.9526	0.0062	3	<.0001	0.3996
FOSL1	0.0062	80	0.8995	0.595	0.0055	56	0.6088	0.6995	0.0238	5	<.0001	0.8788
FOS	0.0054	90	0.7839	0.5156	0.0043	86	0.4576	0.6668	0.0211	6	0.0024	0.95
RPX1	0.0014	162	0.5736	0.0381	0.0011	164	0.4484	0.0885	0.0401	1	<.0001	0.0175
RPX2	0.0014	181	0.5736	0.0109	0.0015	157	0.4484	0.0939	0.0333	2	<.0001	0.0004