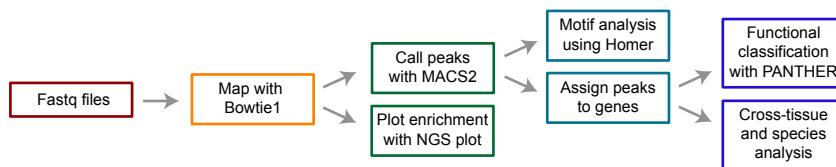


Figure S1

A

Reference	PMID	Factor	Species	Cell type	Accession	Mapped Reads	Passed QC?
Webb et al.	23891001	FOXO3	Mouse	Adult NPCs	GSE48336	12,702,983	Yes
Ochiai et al.	22267219	FOXO1	Mouse	<i>IRF-4,8</i> ^{-/-} pre-B cells	GSE35024	45,382,078	Yes
Kim et al.	23932570	FOXO1	Mouse	CD8+ T-cells	GSE46944	9,949,662	Yes
Ouyang et al.	23135404	FOXO1	Mouse	nTreg	GSE40657	16,328,867	Yes
Litvak et al.	22982991	FOXO3	Mouse	Unstimulated macrophages	GSE37052	5,694,391	No
Lin et al.	20543837	FOXO1	Mouse	Rag1 KO pro-B cells	GSE21978	16,392,076	No
Riedel et al.	23604319	DAF-16::GFP	<i>C. elegans</i>	Whole worm	GSE15567	19,379,002	Yes
modEncode	-	DAF-16::GFP	<i>C. elegans</i>	Whole worm	GSE15567	3,123,508	Yes
Bai et al.	24244197	dFO XO	<i>Drosophila</i>	<i>chico</i> heterozygotes	GSE44686	35,627,907	Yes
Bai et al.	24244197	dFO XO	<i>Drosophila</i>	Adults with ablated IPCs	GSE44686	35,690,140	Yes
Eijkelenboom et al.	24360957	FOXO3-ER	Human	DLD1 cells	GSE35486	13,302,980	No

B

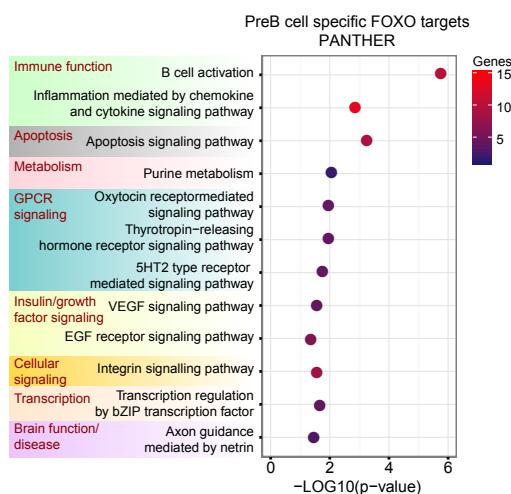


C

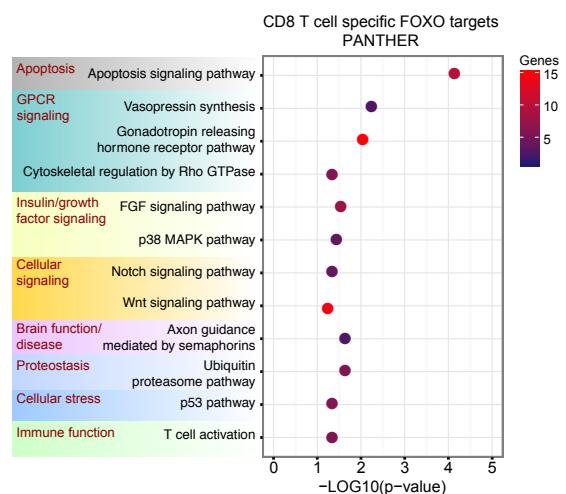
Cell type	Factor	MACS peaks	MACS q-value	Target genes	Motif	% Targets with motif	p-value
NPCs	FOXO3	22132	0.001	4278		36.12	1 x 10^-3101
CD8+ T-cells	FOXO1	8224	0.1	3162		31.34	1 x 10^-485
pre-B cells	FOXO1	14020	0.001	1651		42.48	1 x 10^-1909
Treg cells	FOXO1	6209	0.1	2926		31.63	1 x 10^-404
<i>C. elegans</i> Wild type	DAF-16::GFP	11711	0.001	7189		54.89	1 x 10^-611
<i>C. elegans</i> daf-2	DAF-16::GFP	6434	0.1	4478		36.73	1 x 10^-194
<i>Drosophila</i> chico heterozygotes	dFO XO	169	0.1	151		14.20	1 x 10^-18
<i>Drosophila</i> IPC ablation	dFO XO	203	0.1	251		46.31	1 x 10^-87
Human DLD1 cells	FOXO3-ER	2850	0.01	3092		63.72	1 x 10^-450

Figure S2

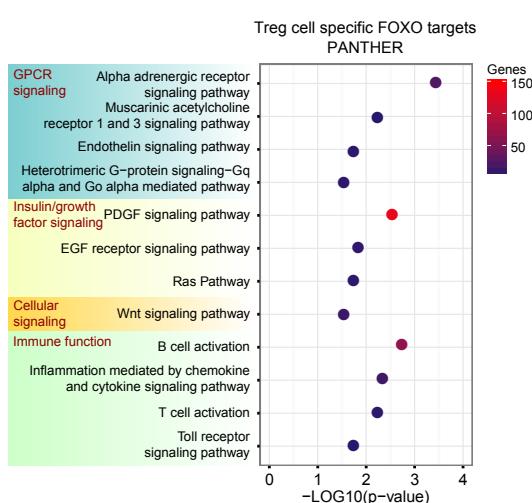
A



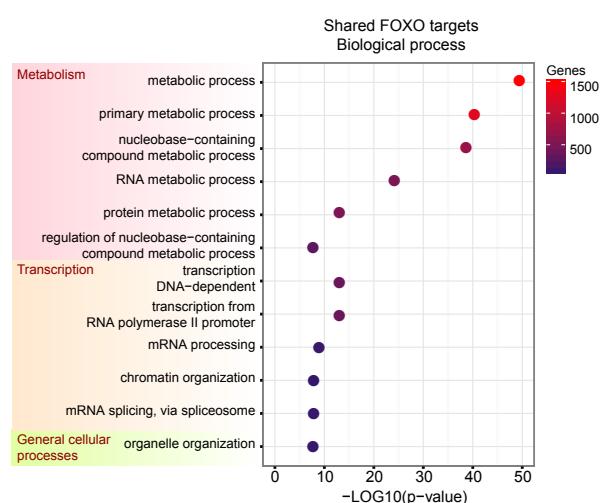
B



C



D



E

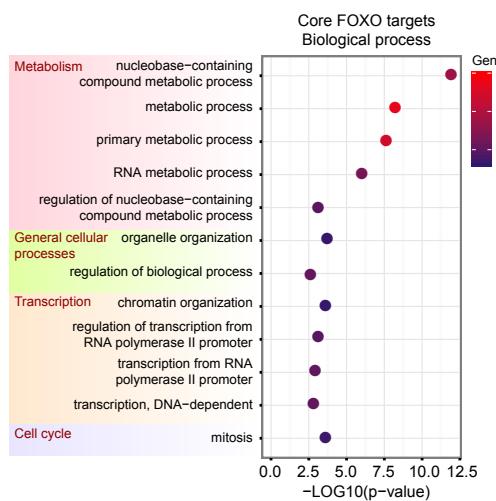
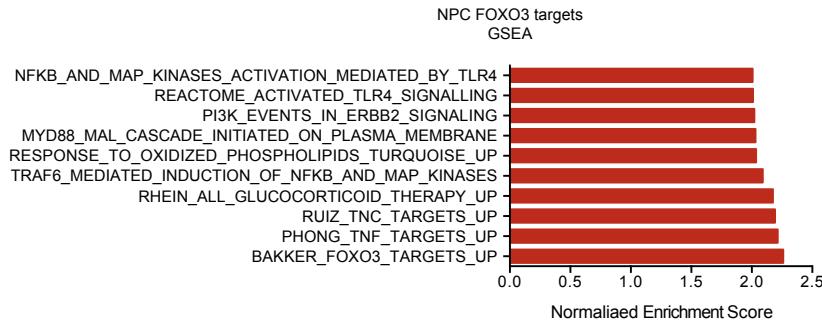
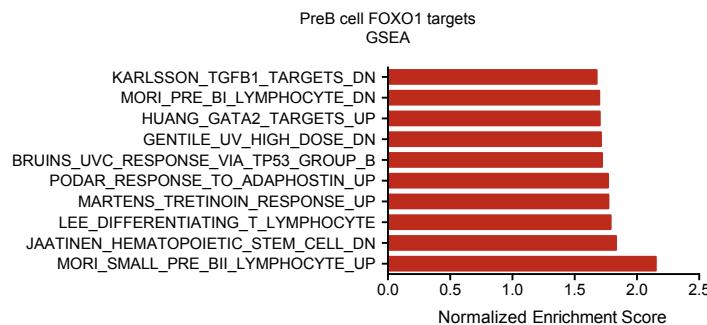


Figure S3

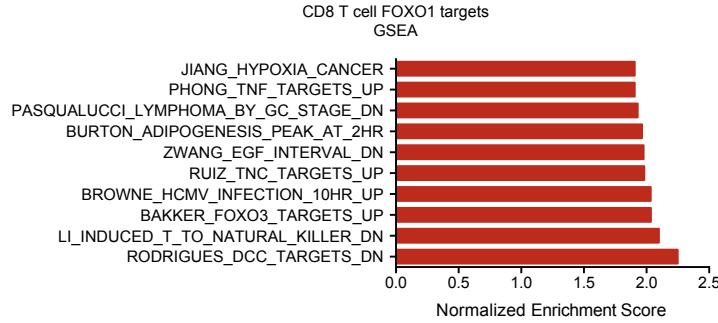
A



B



C



D

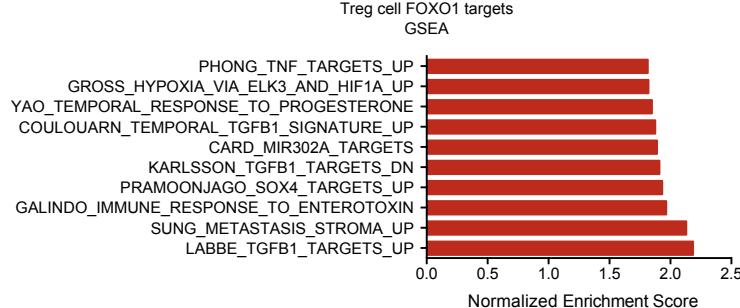


Figure S4

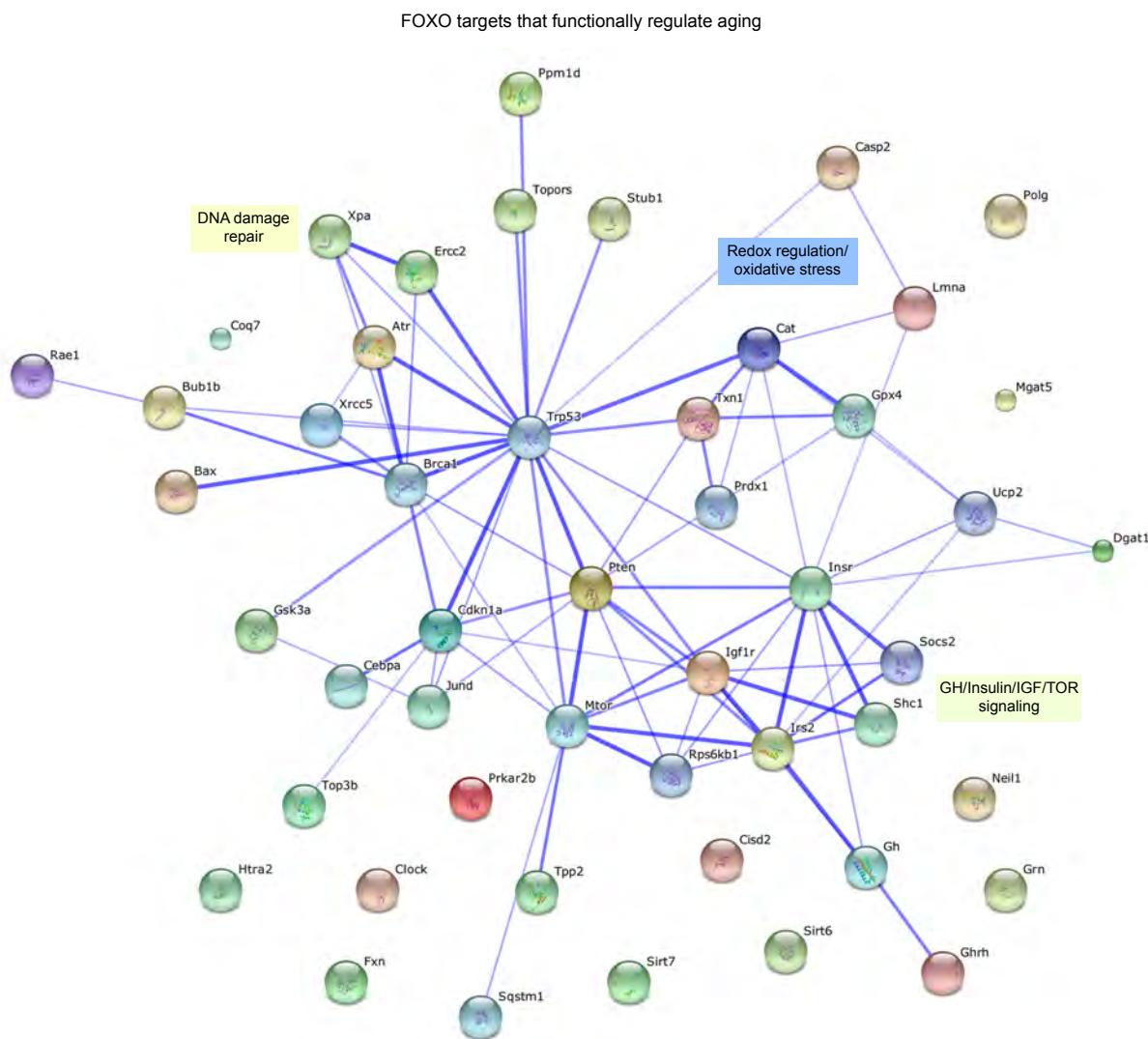


Figure S5

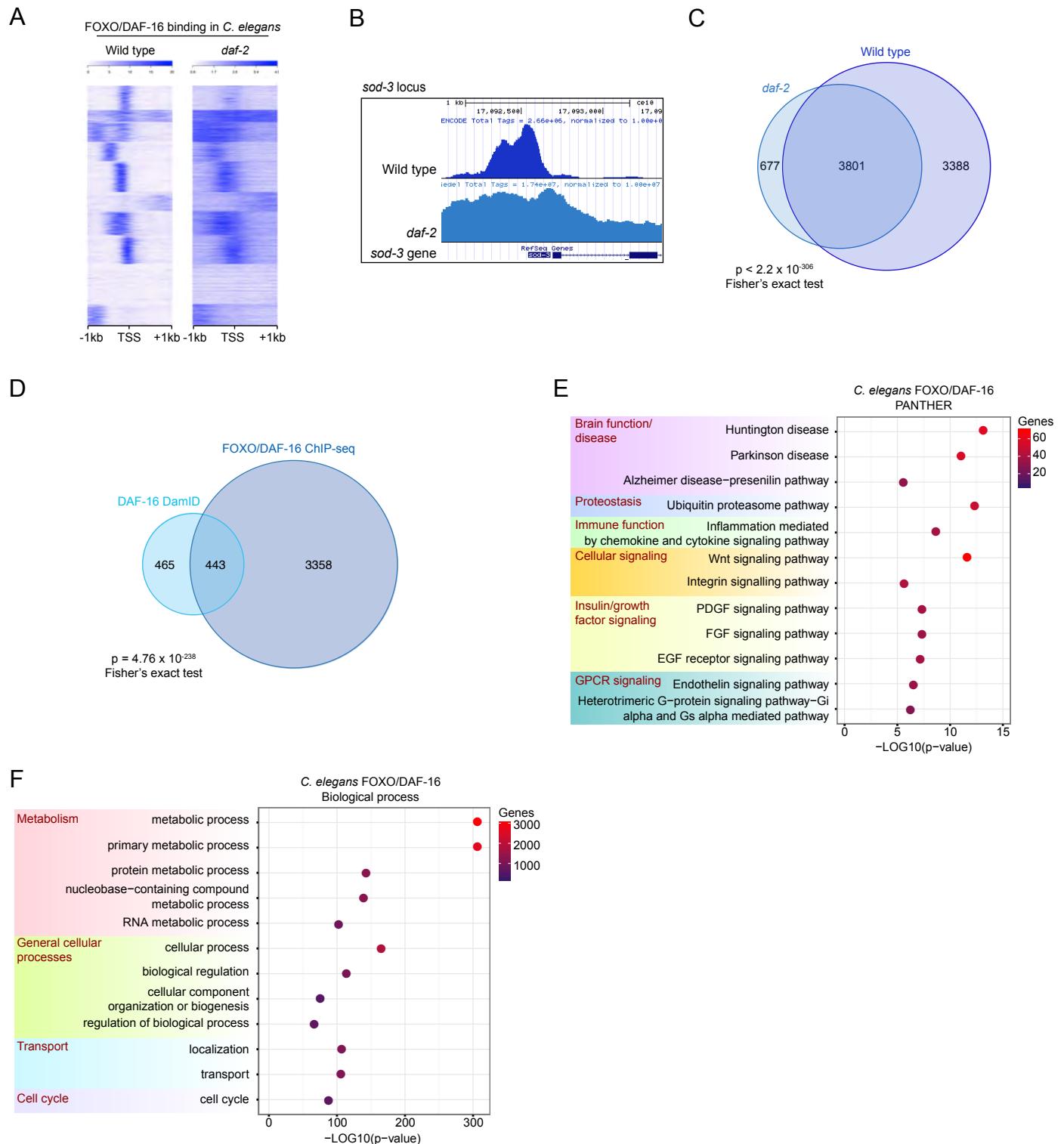
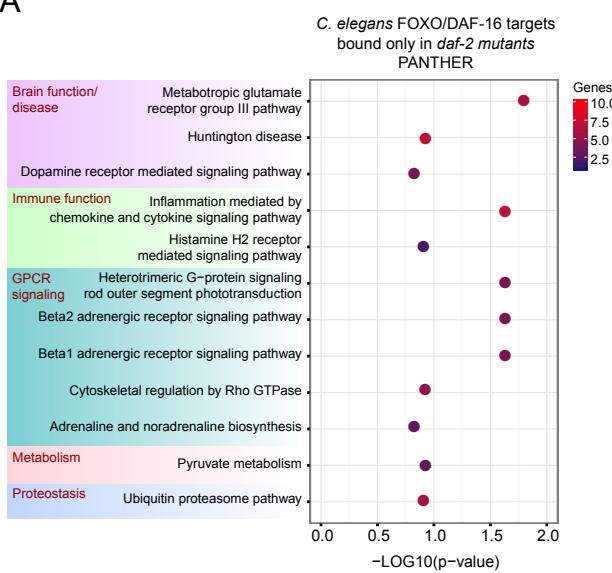


Figure S6

A



B

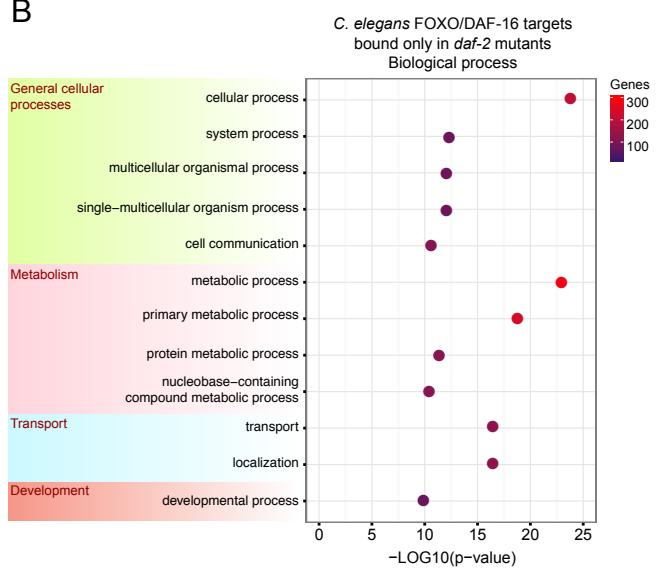


Figure S7

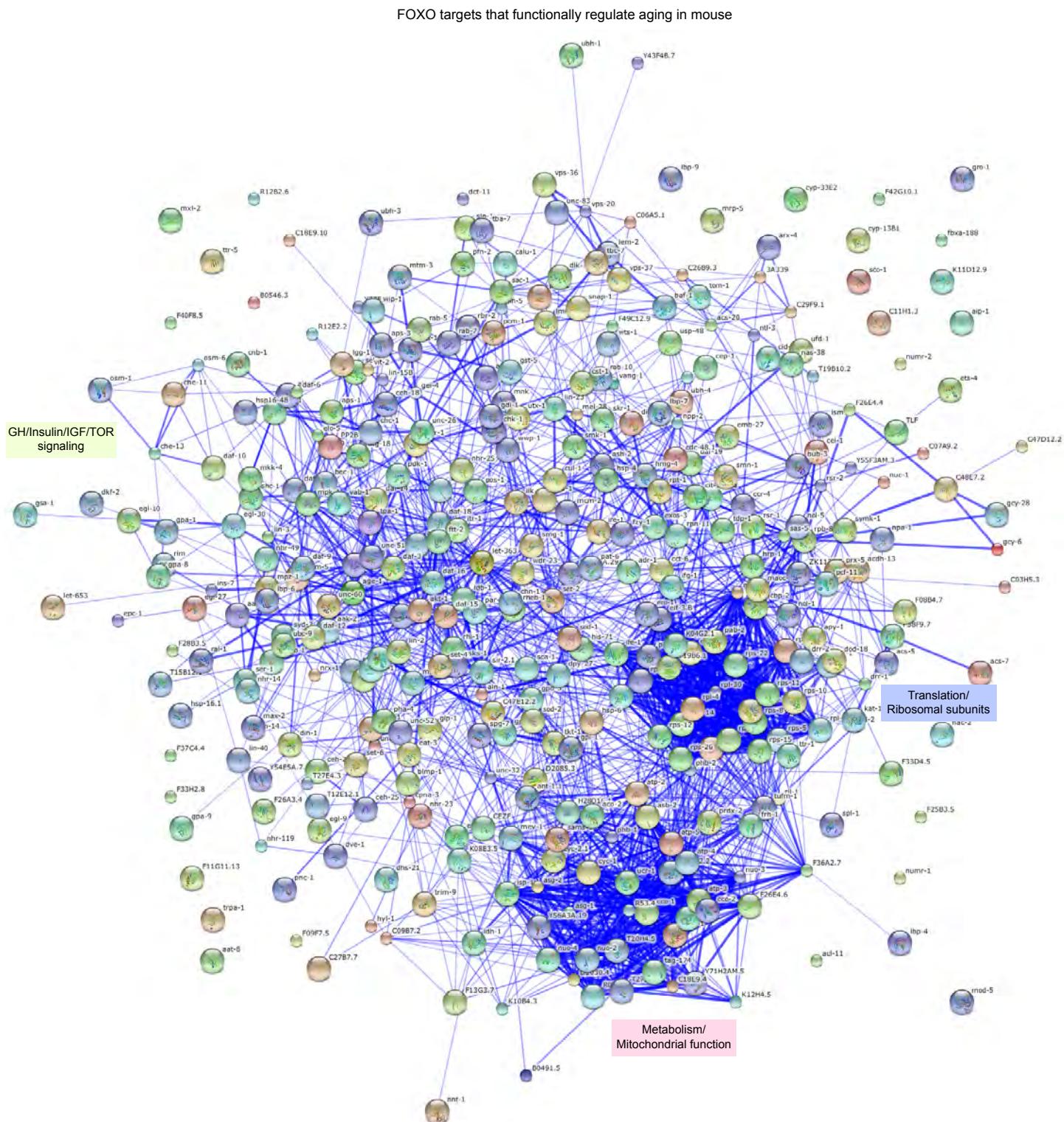


Figure S8

Conserved (mouse-worm) FOXO binding at functional aging regulators in *C. elegans*

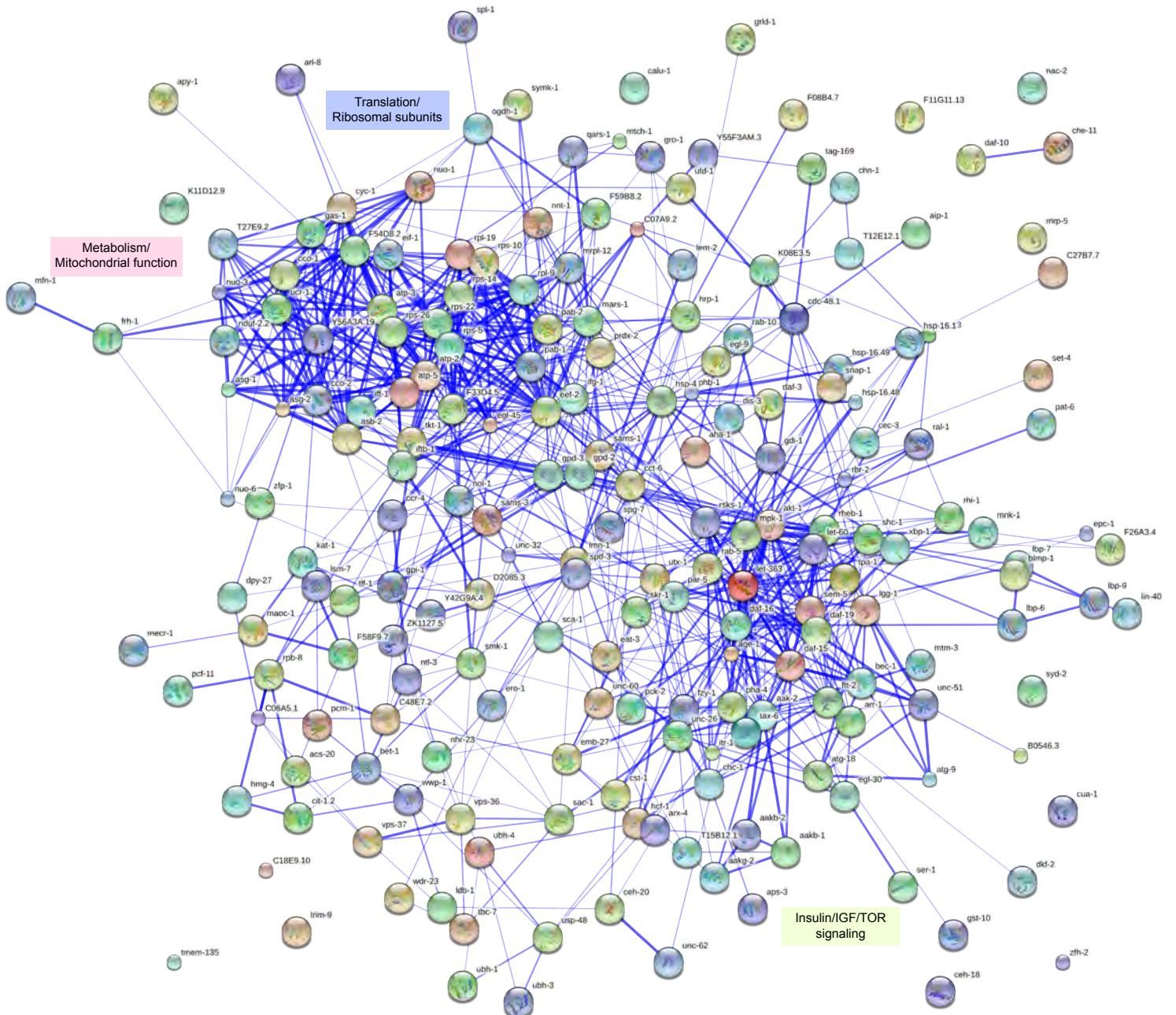


Figure S9

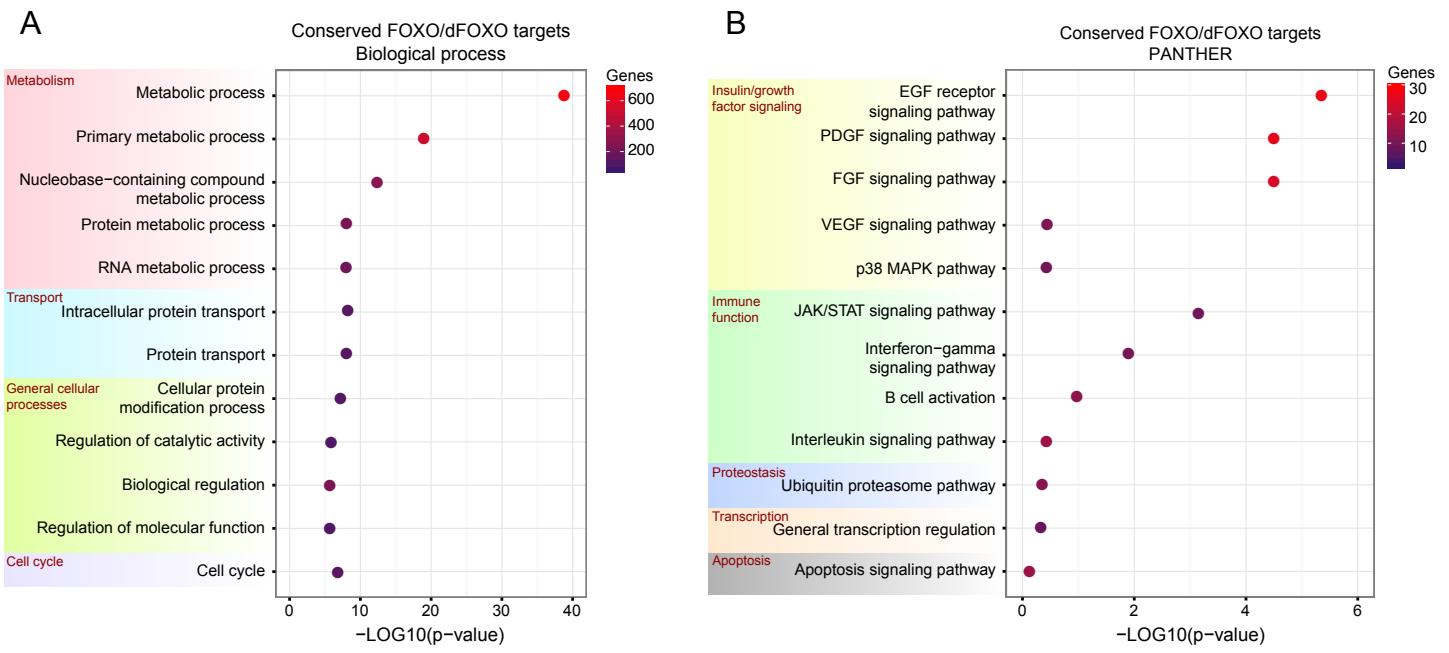


Figure S10

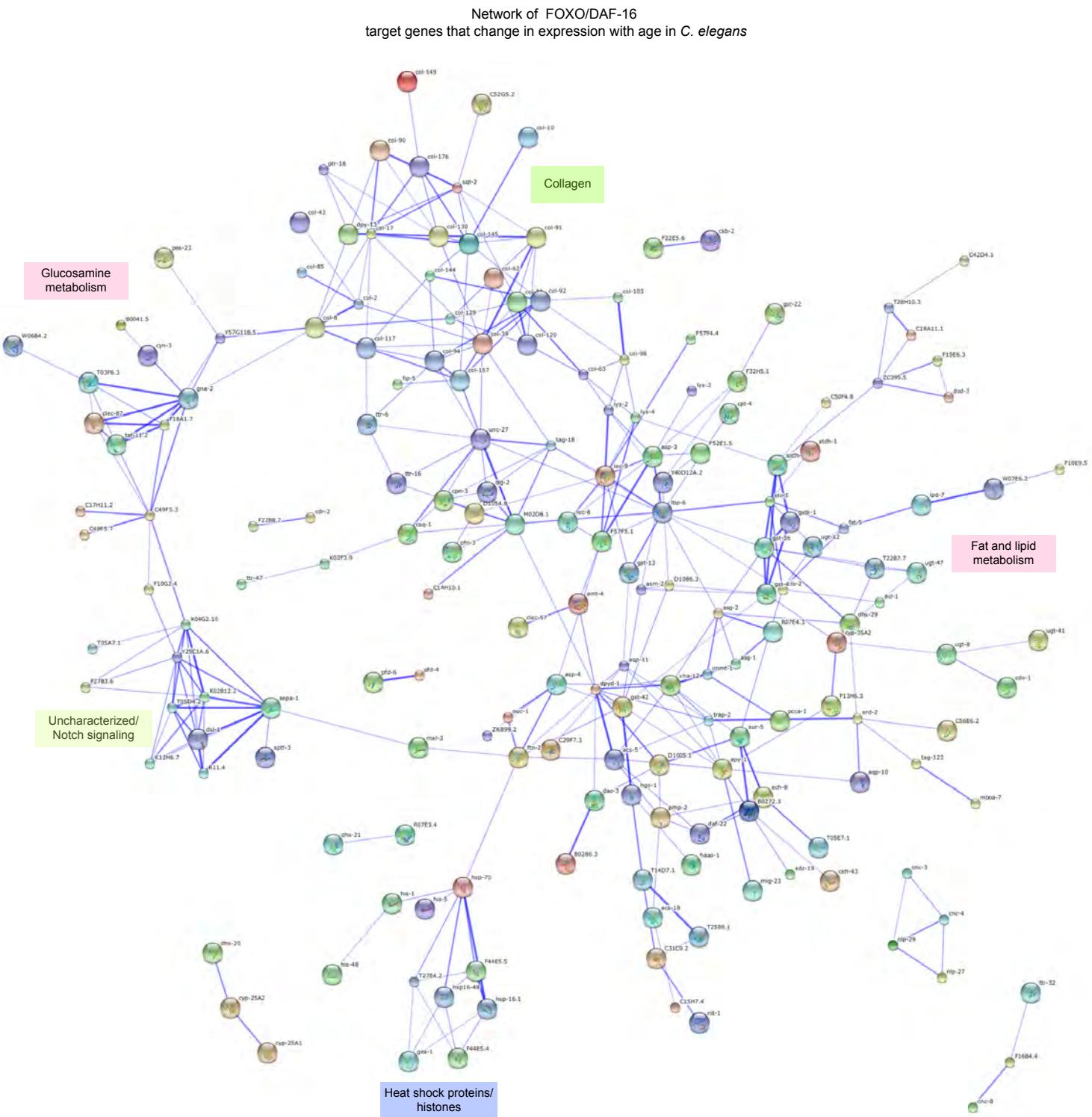


Figure S11

