

**S7 Table. Gene Ontology (GO) function-based outputs from genes that were significantly increased in telencephalon of anoxic painted turtles.**

Gene Ontology Term	Corrected p-values	FDR Rate	Orthologs
double-stranded DNA binding	0.0005089	0.00%	JUNB, EGR1, JUN
structure-specific DNA binding	0.0040734	0.00%	JUNB, EGR1, JUN
RNA polymerase II regulatory region sequence-specific DNA binding	0.0077373	0.00%	JUNB, EGR1, JUN
RNA polymerase II regulatory region DNA binding	0.0080879	0.00%	JUNB, EGR1, JUN

*Corrected P-values represent the Simulation Corrected P-values generated from the GO Term Finder.*