

**Table S10 GO term enrichment for biological process in the North American cline for genes that overlap windows in the top 1% tail of Fst.**

1 % Tail Biological Process		
GO term	q-value	description
GO:0007411	8.92E-06	axon guidance
GO:0006355	8.92E-06	regulation of transcription, DNA-dependent
GO:0007455	1.28E-04	eye-antennal disc morphogenesis
GO:0048749	1.30E-04	compound eye development
GO:0007165	1.54E-04	signal transduction
GO:0007155	2.44E-04	cell adhesion
GO:0007476	2.44E-04	imaginal disc-derived wing morphogenesis
GO:0007424	2.78E-04	open tracheal system development
GO:0007611	3.13E-04	learning or memory
GO:0030707	4.18E-04	ovarian follicle cell development
GO:0035317	4.18E-04	imaginal disc-derived wing hair organization
GO:0007530	4.18E-04	sex determination
GO:0007156	4.60E-04	homophilic cell adhesion
GO:0007422	5.26E-04	peripheral nervous system development
GO:0007350	7.08E-04	blastoderm segmentation
GO:0006811	1.16E-03	ion transport
GO:0006468	1.25E-03	protein amino acid phosphorylation
GO:0008355	1.77E-03	olfactory learning
GO:0006350	1.80E-03	transcription
GO:0016310	1.80E-03	phosphorylation
GO:0008104	1.82E-03	protein localization
GO:0006813	2.37E-03	potassium ion transport
GO:0007391	2.37E-03	dorsal closure
GO:0008407	2.75E-03	bristle morphogenesis
GO:0007623	2.85E-03	circadian rhythm
GO:0007420	2.85E-03	brain development
GO:0007186	3.70E-03	G-protein coupled receptor protein signaling pathway
GO:0007399	3.70E-03	nervous system development
GO:0045449	4.03E-03	regulation of transcription
GO:0048477	4.67E-03	oogenesis
GO:0048813	6.08E-03	dendrite morphogenesis
GO:0007242	8.01E-03	intracellular signaling cascade
GO:0008360	8.37E-03	regulation of cell shape
GO:0002121	8.37E-03	inter-male aggressive behavior
GO:0007417	9.30E-03	central nervous system development
GO:0007507	1.13E-02	heart development
GO:0007017	1.75E-02	microtubule-based process
GO:0006470	2.98E-02	protein amino acid dephosphorylation