

Transposable elements in a myxozoan–fish system: their role in the lateral transfer of host Siglec genes

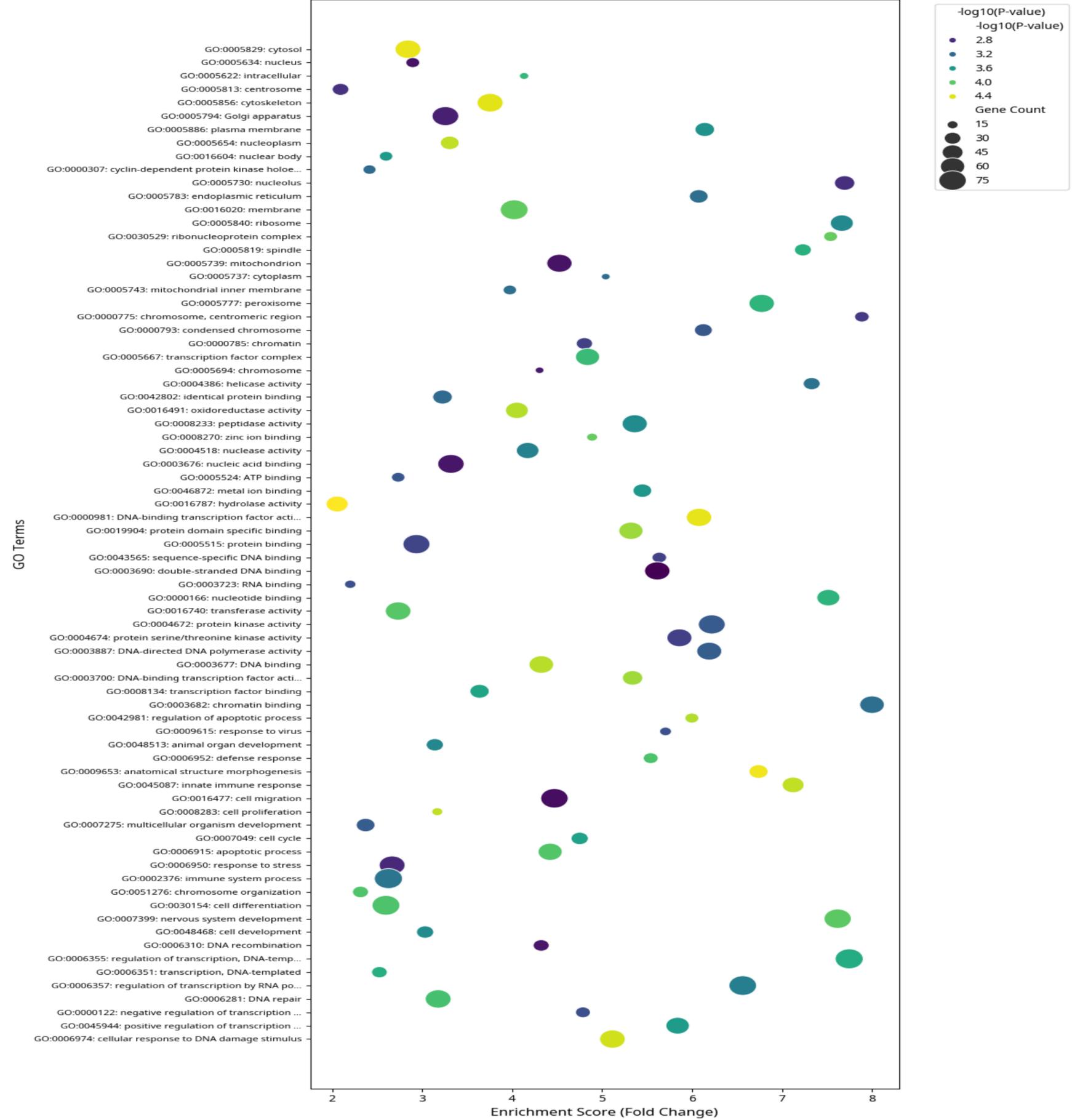
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Supplementary Figure S2: Complete Gene Ontology (GO) Enrichment Analysis Results.

This figure presents the full results of the Gene Ontology (GO) enrichment analysis for genes located proximally to TEs in the *O. mykiss* genome. The data is visualized as a comprehensive dot plot, which displays all significantly enriched GO terms across the three main domains: Biological Process, Molecular Function, and Cellular Component. Each dot represents a GO term, with its position on the x-axis indicating the enrichment score, its color representing the statistical significance (p-value), and its size corresponding to the number of genes associated with that term. An accompanying table lists all enriched terms, their associated p-values, and the specific genes identified. This provides full transparency of the analysis and serves as a rich dataset for exploring the broader functional implications of TE insertions beyond the top-level categories discussed in the main text.

Complete Gene Ontology (GO) Enrichment Analysis Results Genes Proximal to TEs in *Oncorhynchus mykiss* Genome

Complete Gene Ontology (GO) Enrichment Analysis Results



ENRICHMENT STATISTICS SUMMARY

Total Significant Terms: 75

- Biological Process: 25 terms
- Molecular Function: 25 terms
- Cellular Component: 25 terms

Enrichment Score Range: 1.54 - 7.32

P-value Range: 8.36e-07 - 4.97e-03

Gene Count Range: 8 - 79 genes

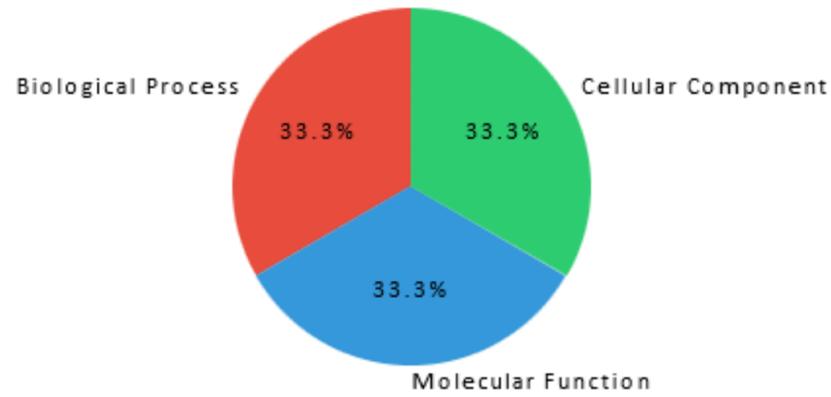
Top Enriched Categories:

- DNA binding and transcription regulation
- Chromosome organization and chromatin
- Cell cycle and DNA repair processes
- Developmental and differentiation pathways

Top 10 Enriched GO Terms

GO ID	Description	Domain	Enrichment	P-value	Genes
GO:0006974	cellular response	Bi	7.32	9.74e-05	79
GO:0005694	chromosome	Ce	7.25	1.53e-05	78
GO:0003682	chromatin bindin	Mo	7.06	2.12e-05	33
GO:0008134	transcription fact	Mo	7.00	1.42e-05	26
GO:0045944	positive regulatio	Bi	6.79	2.25e-06	38
GO:0000122	negative regulatio	Bi	6.68	8.51e-05	24
GO:0006281	DNA repair	Bi	6.51	1.17e-05	22
GO:0006357	regulation of tran	Bi	6.51	5.78e-05	43
GO:0005667	transcription fact	Ce	6.22	9.37e-05	71
GO:0003700	DNA-binding tran	Mo	6.00	4.77e-05	49

Distribution of Enriched Terms by GO Domain



Distribution of Enrichment Scores

