

SQANTI3 filter report

Total Genes: 650

Total Transcripts: 3925

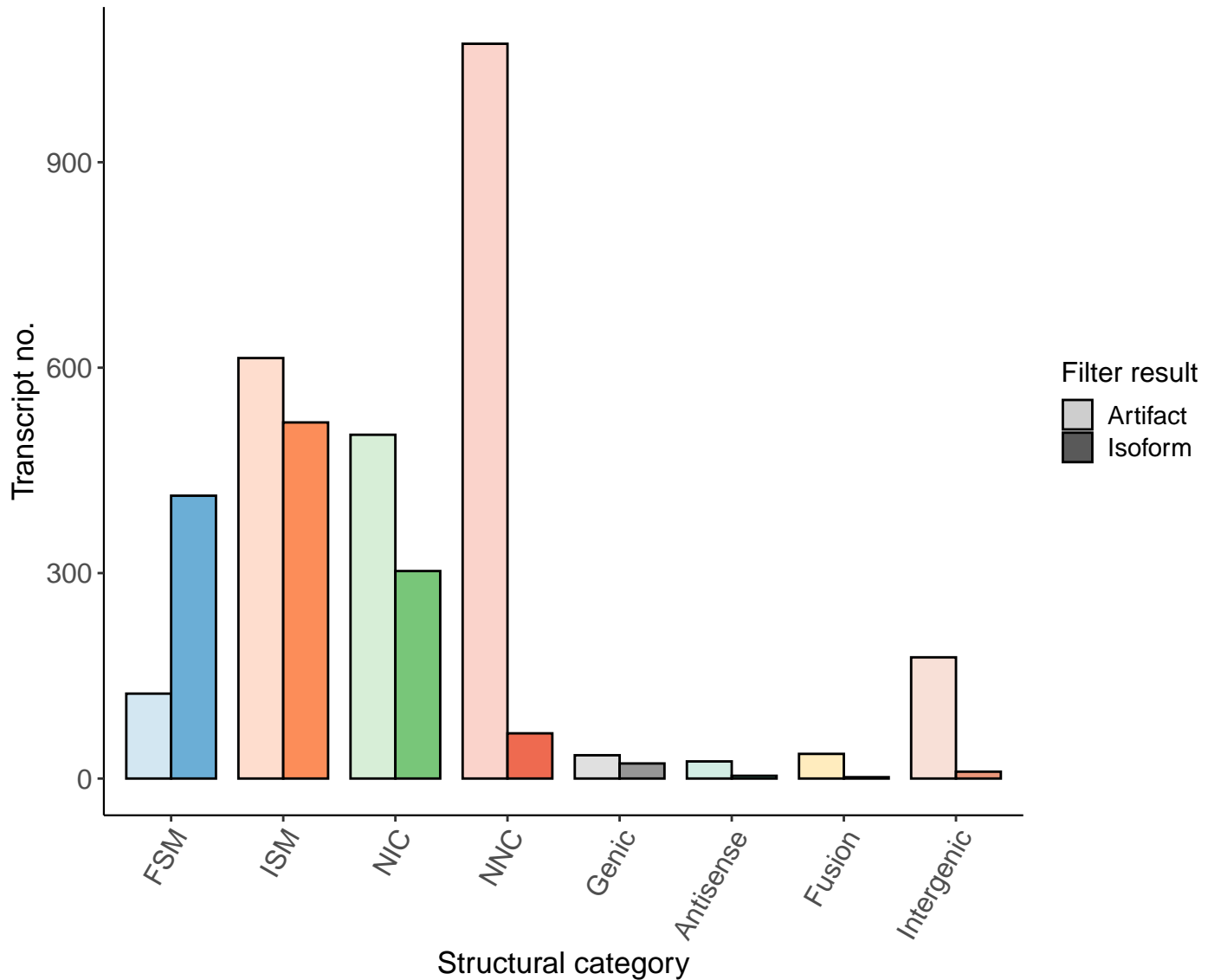
– Isoforms: 1340 (34%)

– Artifacts: 2585 (66%)

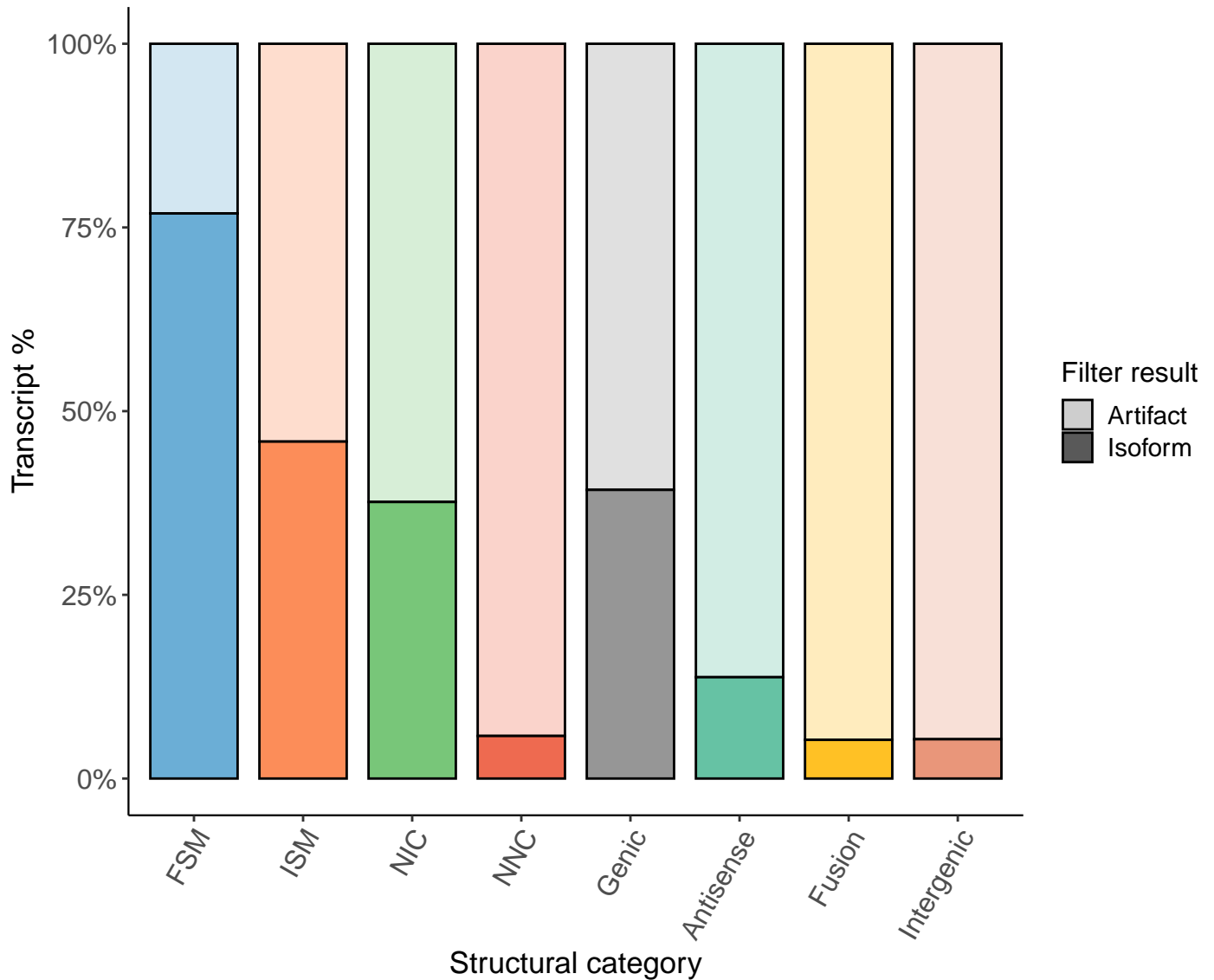
Gene category	Gene no.	No. of genes with artifacts only
Annotated	437	86
Novel	213	199

Structural category	Artifact no.	Isoform no.
FSM	124	413
ISM	614	520
NIC	502	303
NNC	1073	66
Genic	34	22
Antisense	25	4
Fusion	36	2
Intergenic	177	10

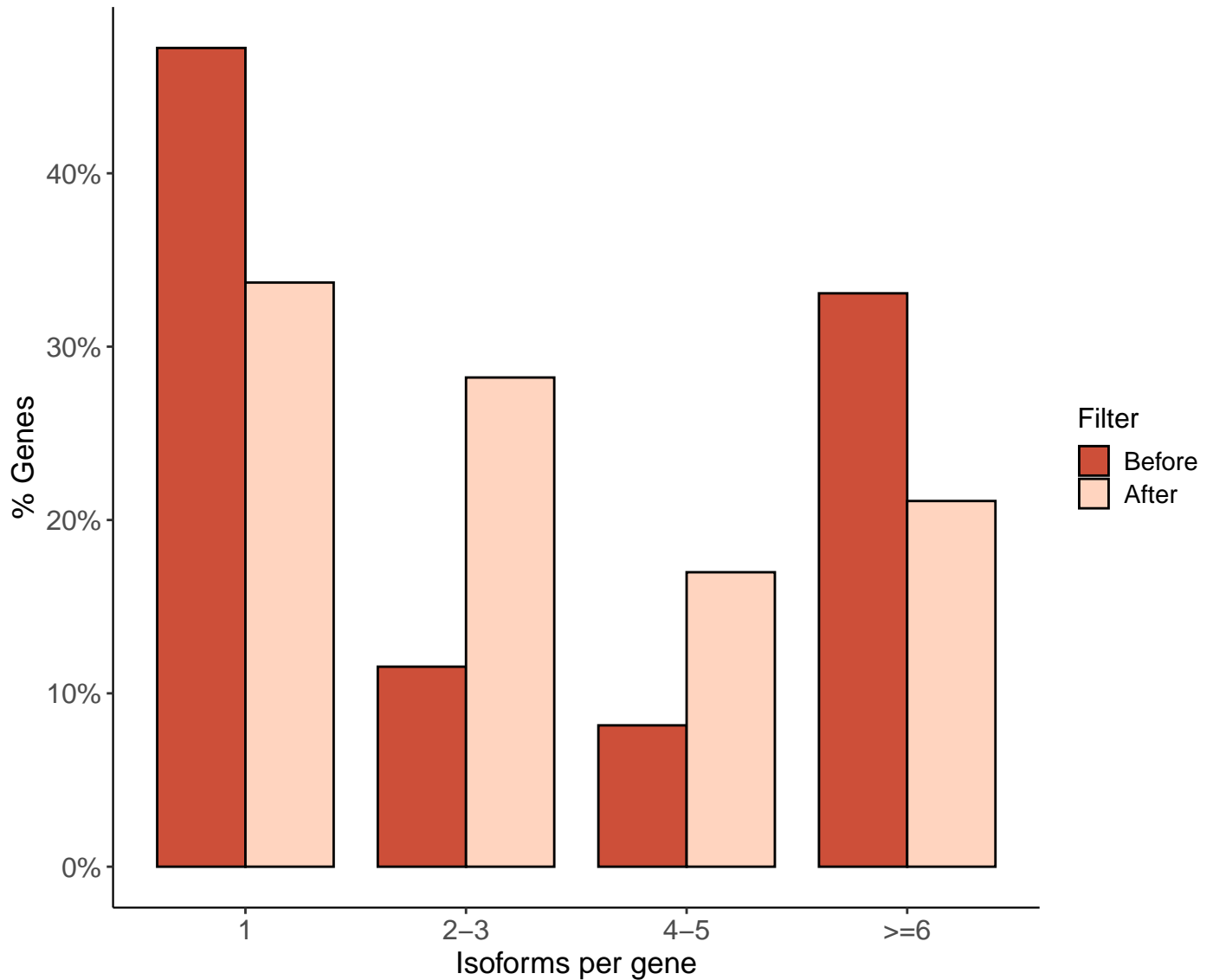
Total isoforms and artifacts by category



% isoforms and artifacts by category

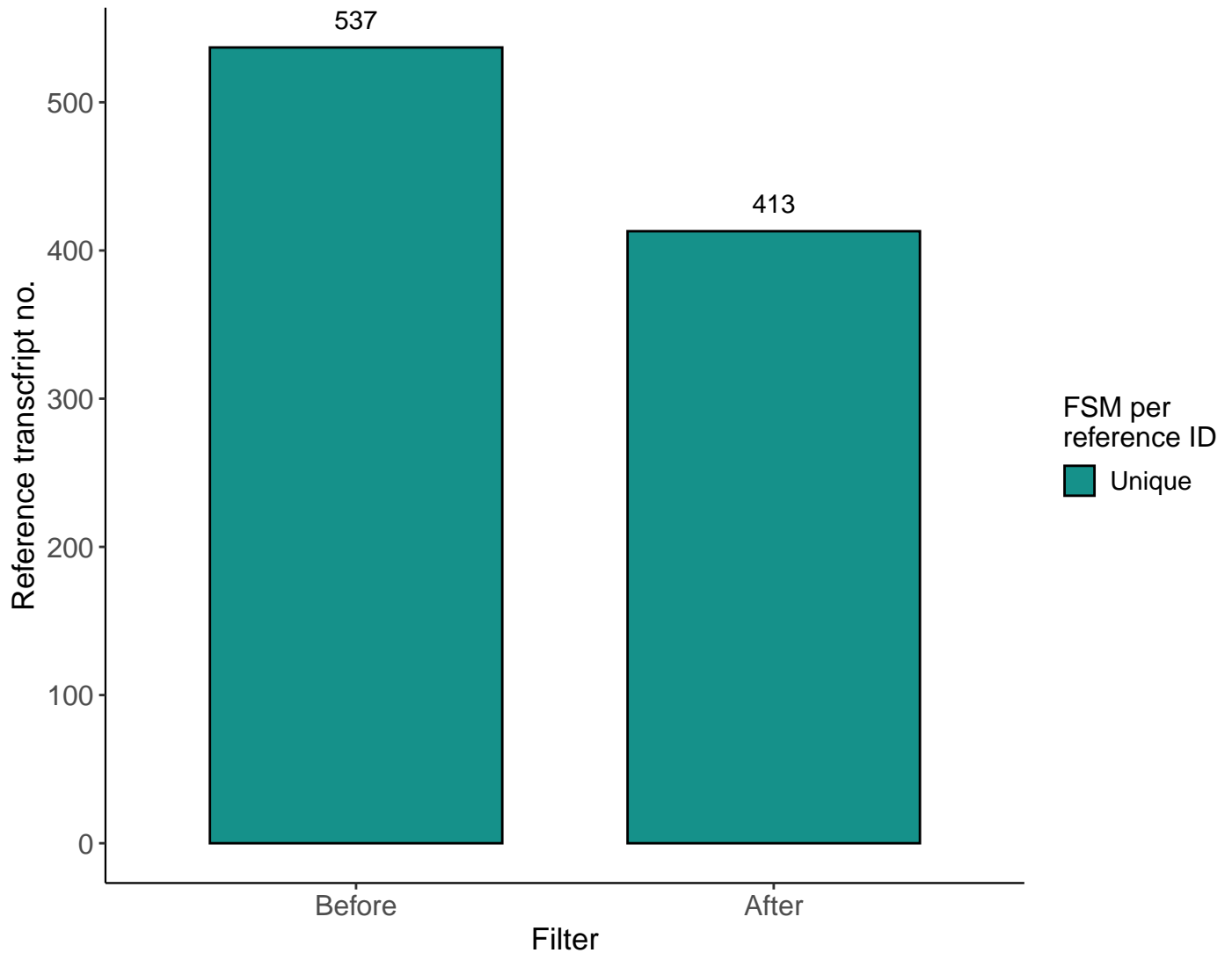


Number of isoforms per gene

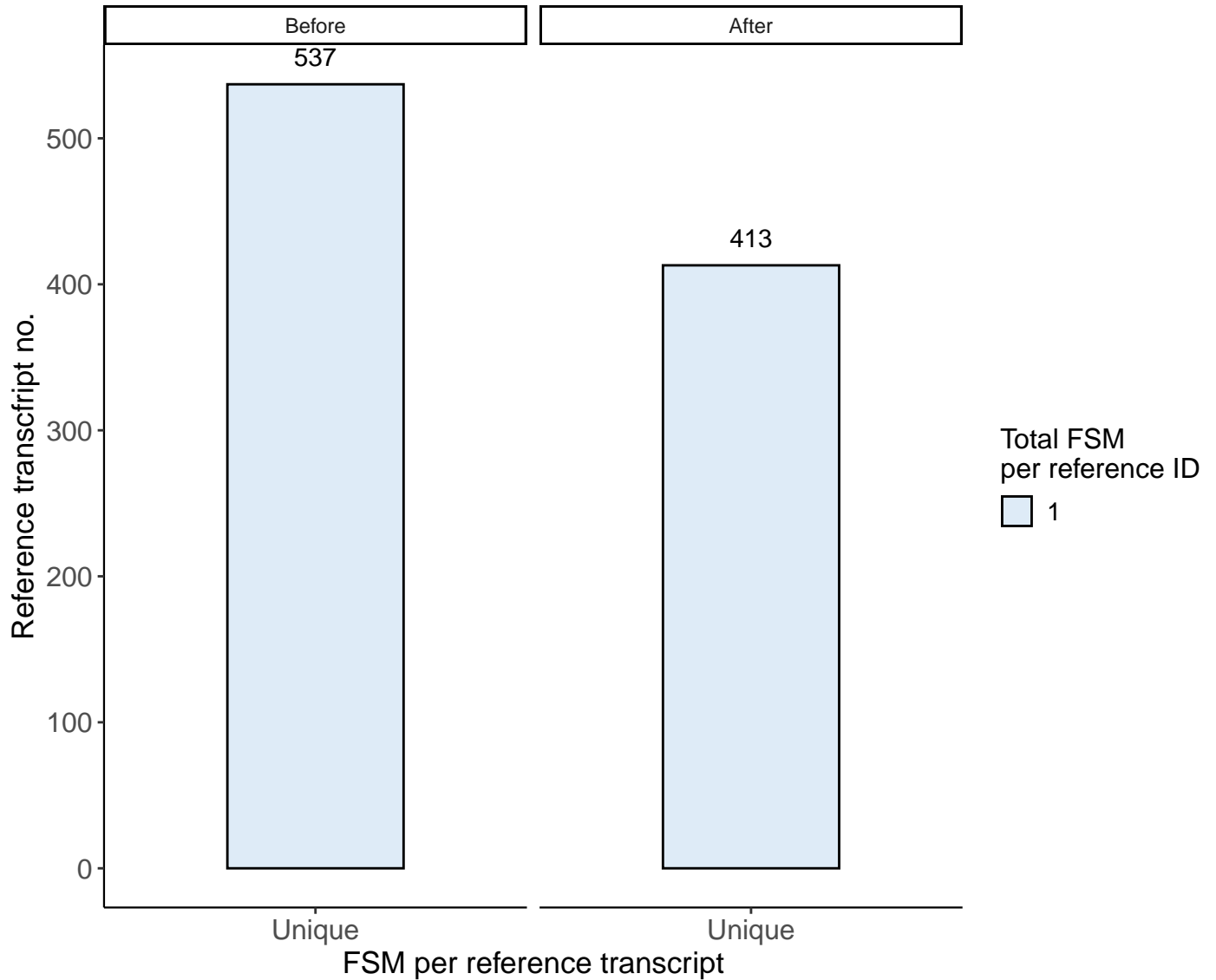


Reference transcript complexity

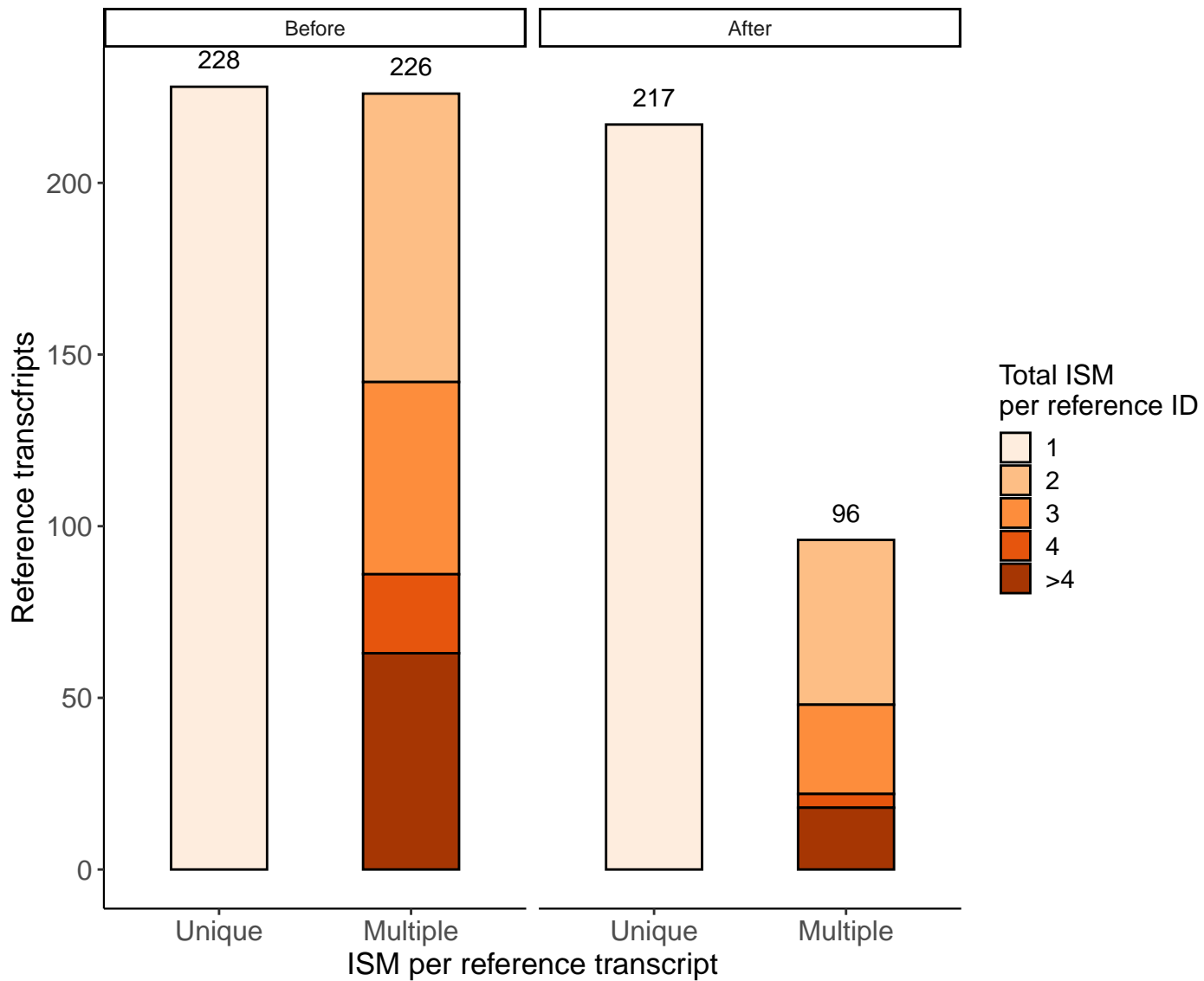
No. of reference transcripts represented by FSM



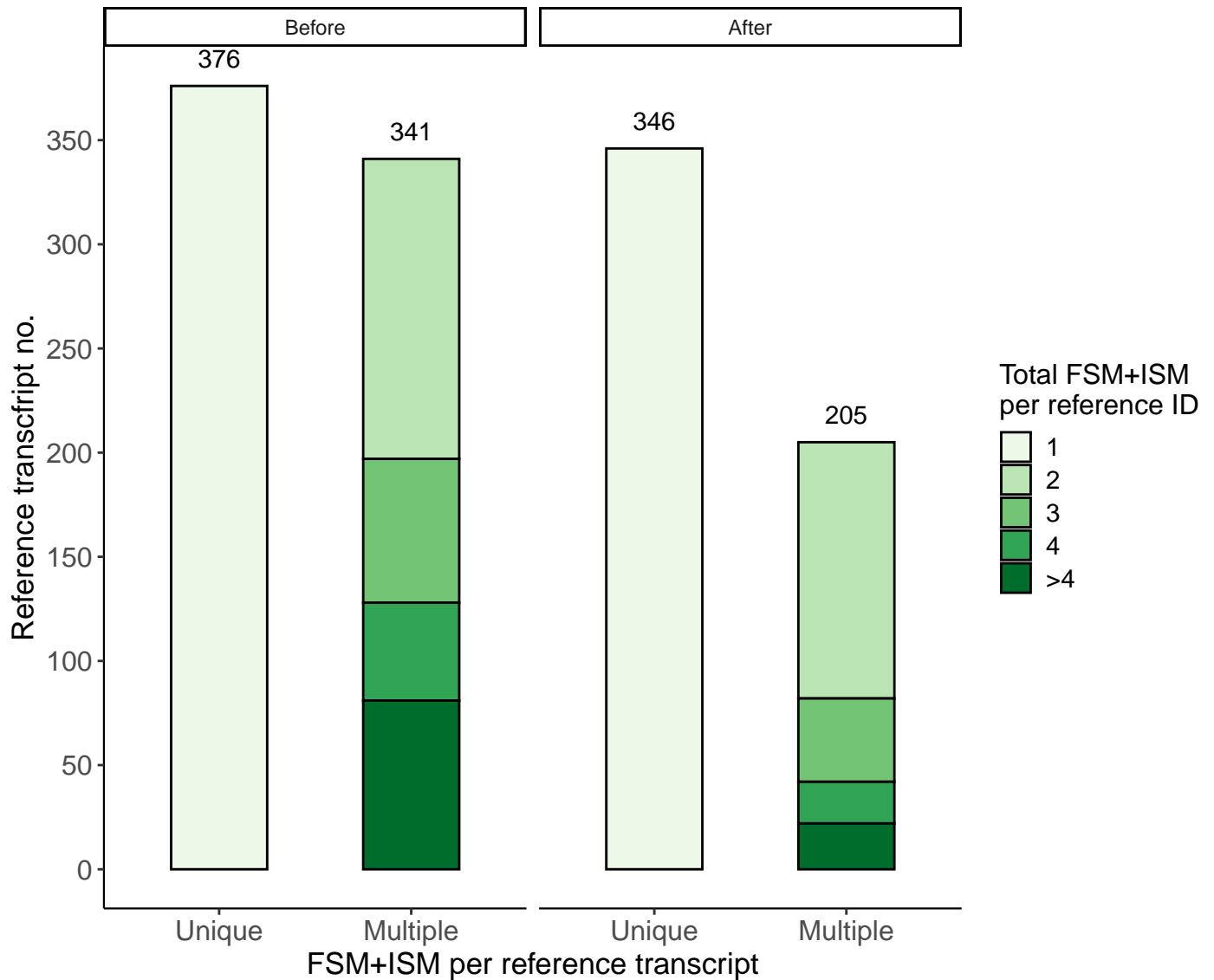
FSM redundancy



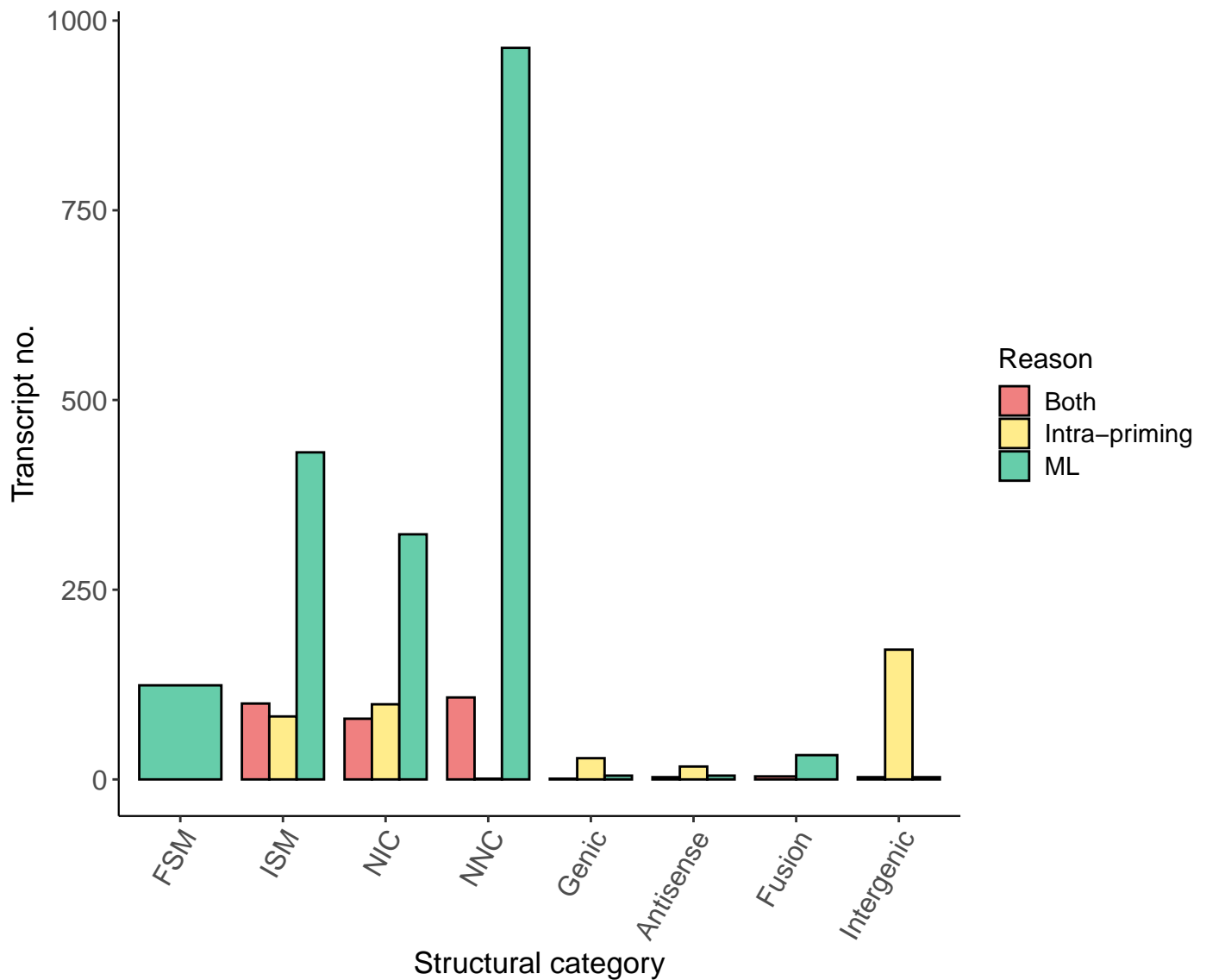
ISM redundancy



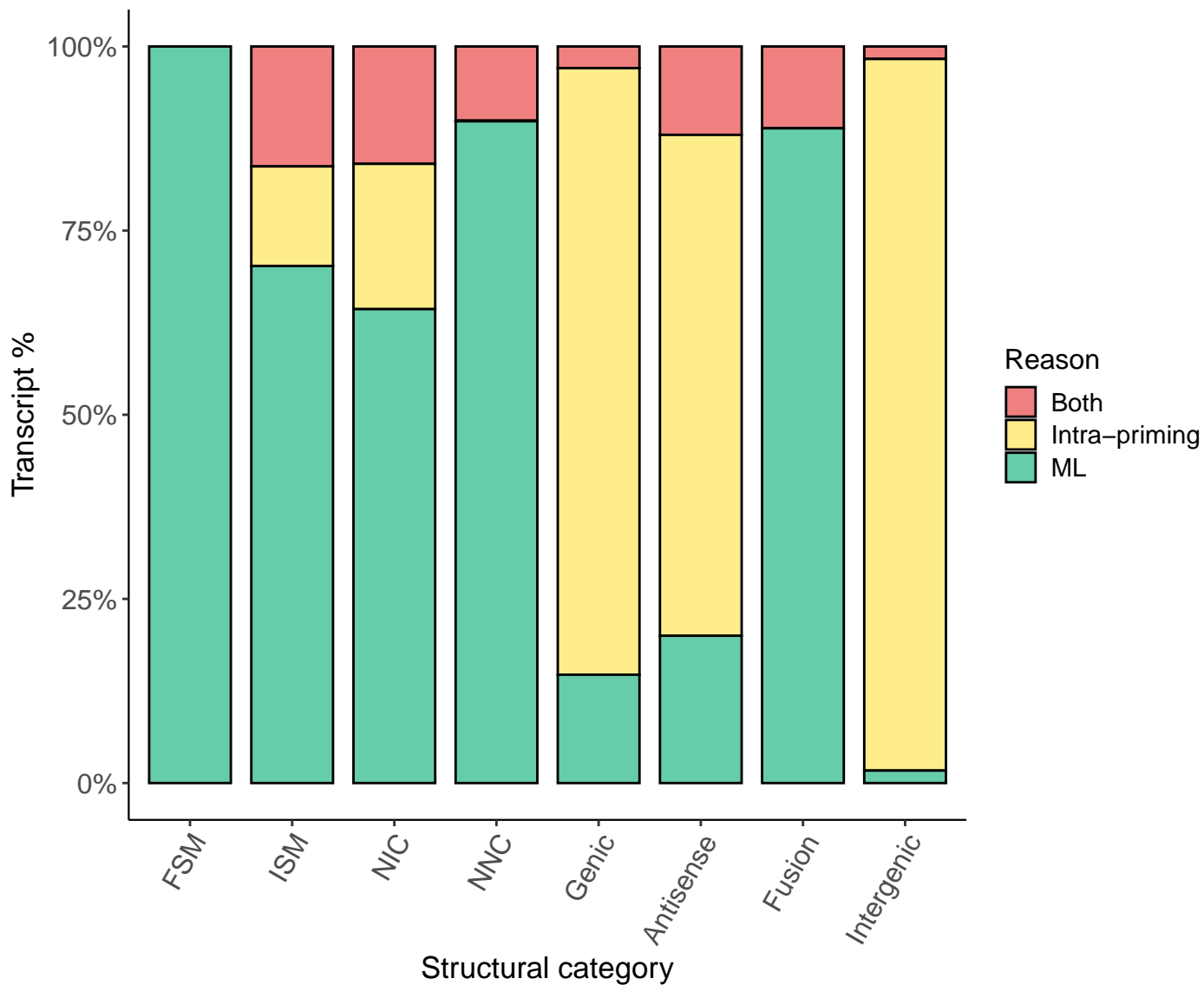
FSM+ISM redundancy



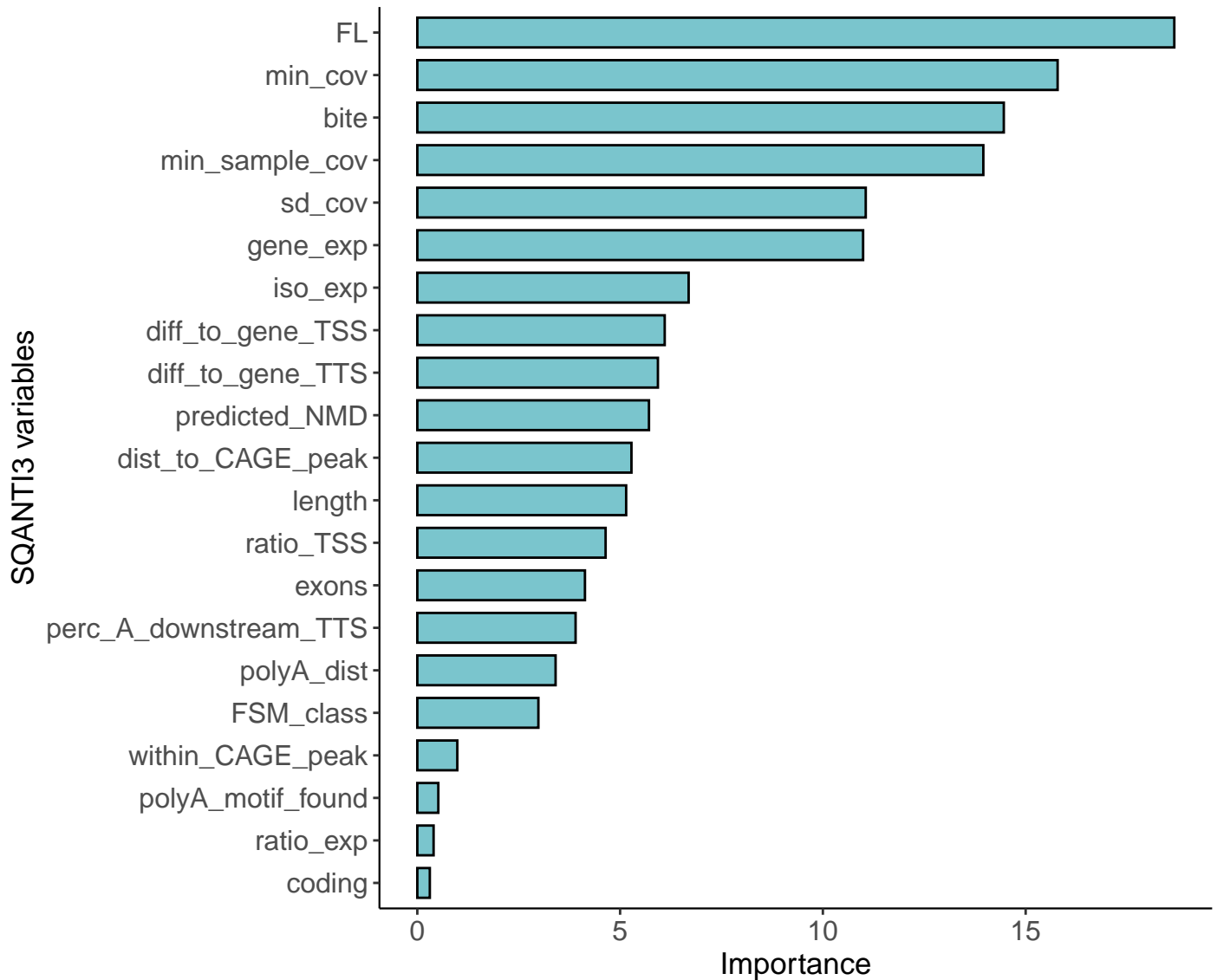
Reason to flag transcripts as artifacts, by category



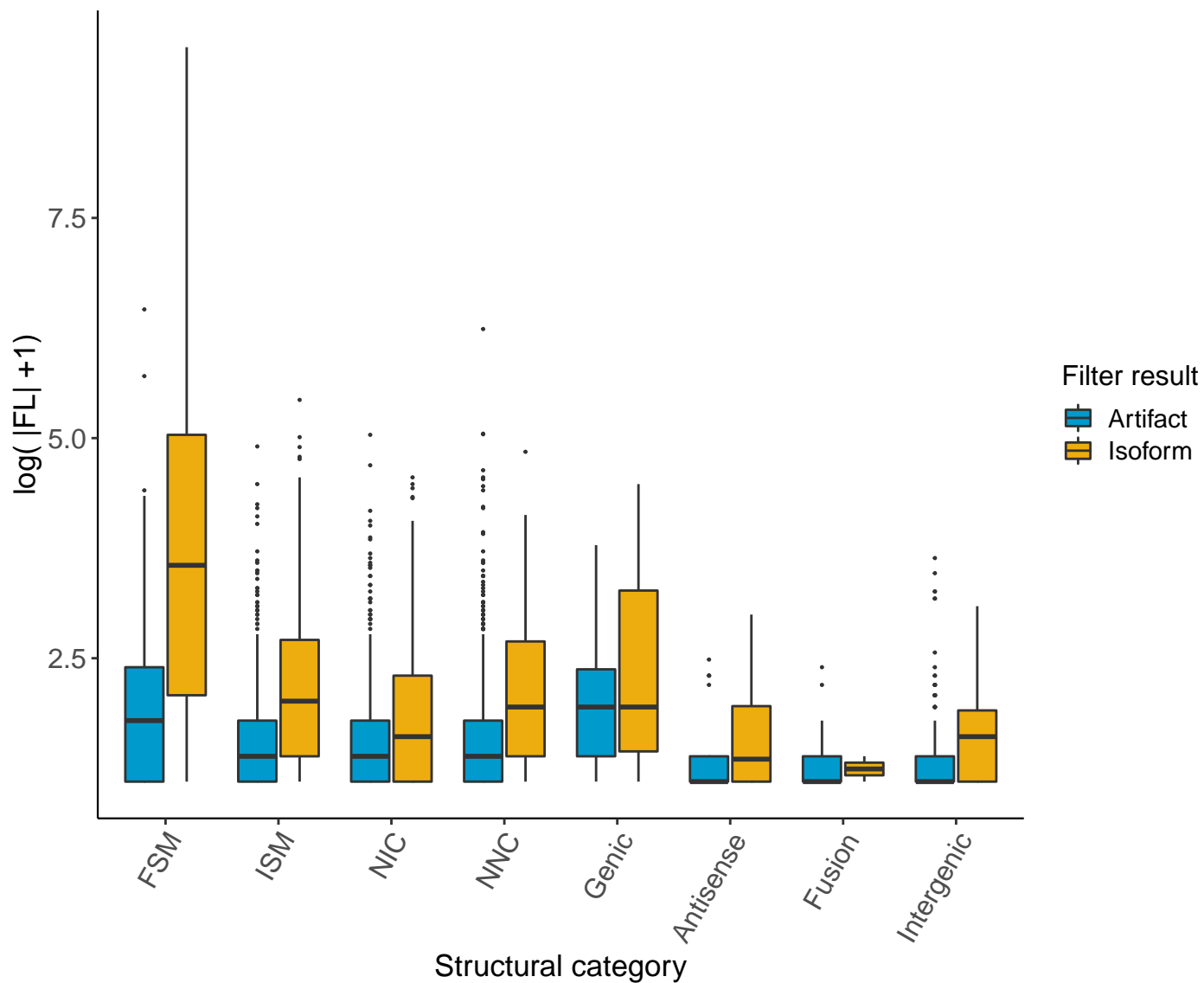
Reason to flag transcripts as artifacts, by category



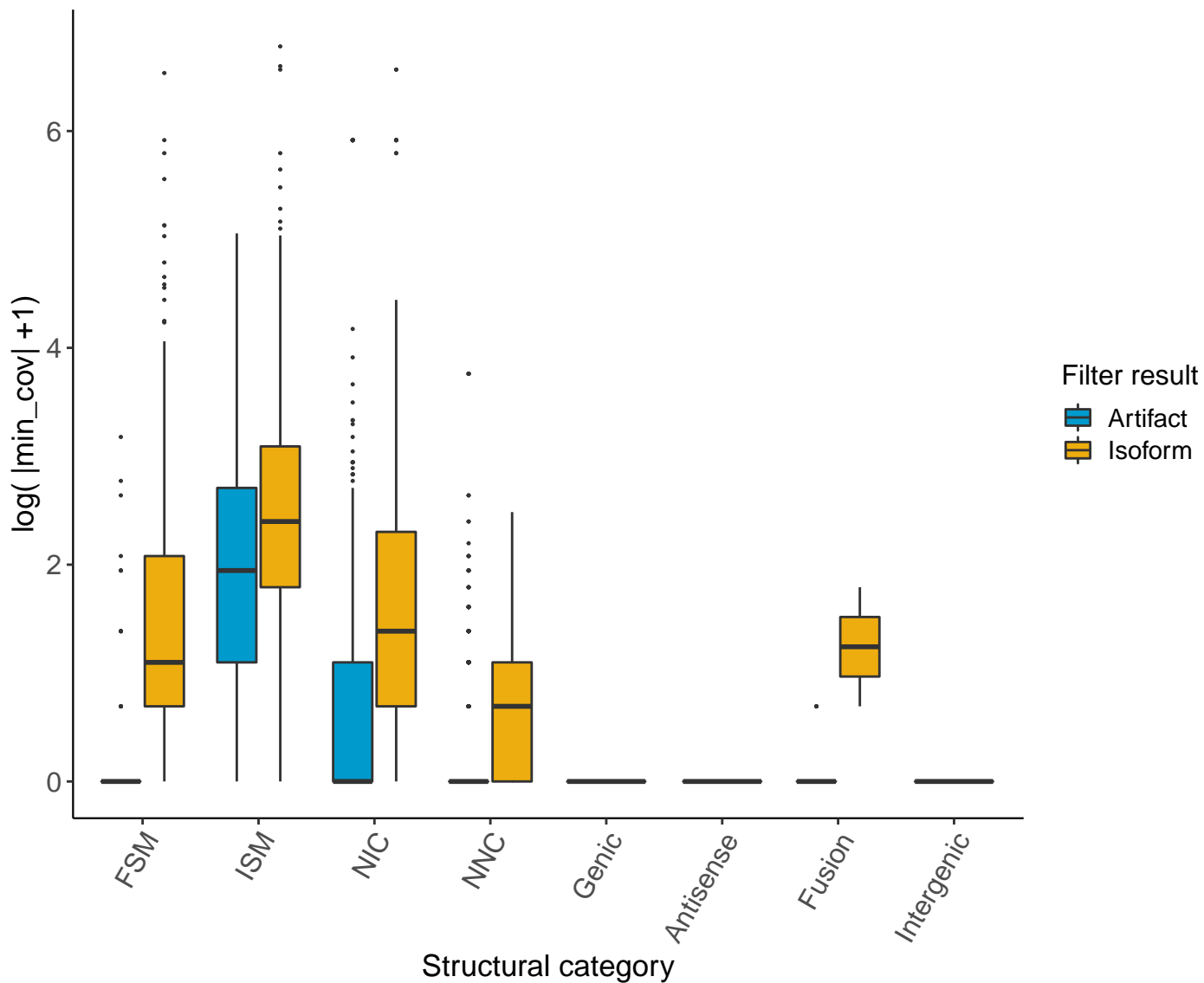
Variable importance in Random Forest classifier



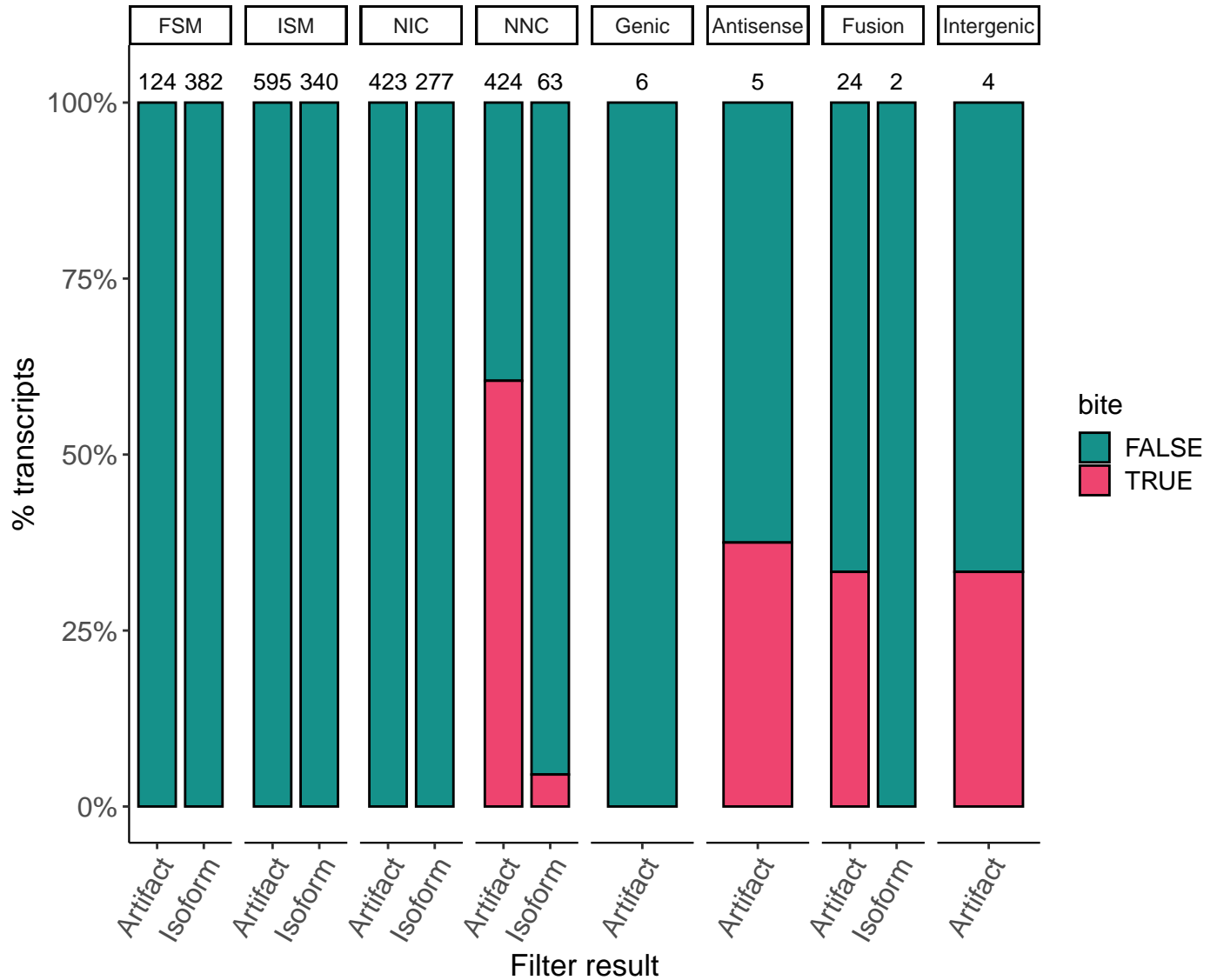
FL – ML importance: 18.67



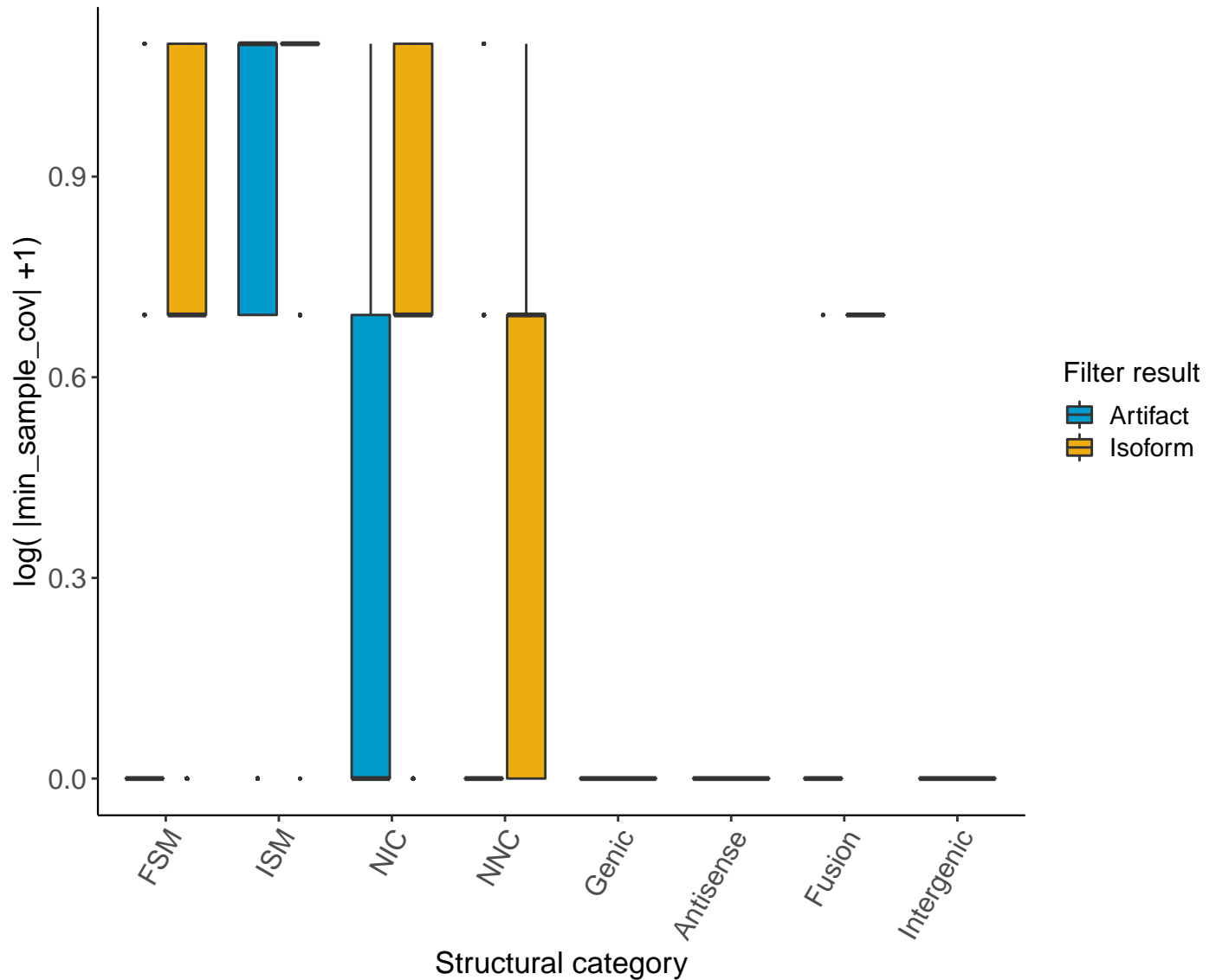
min_cov – ML importance: 15.79



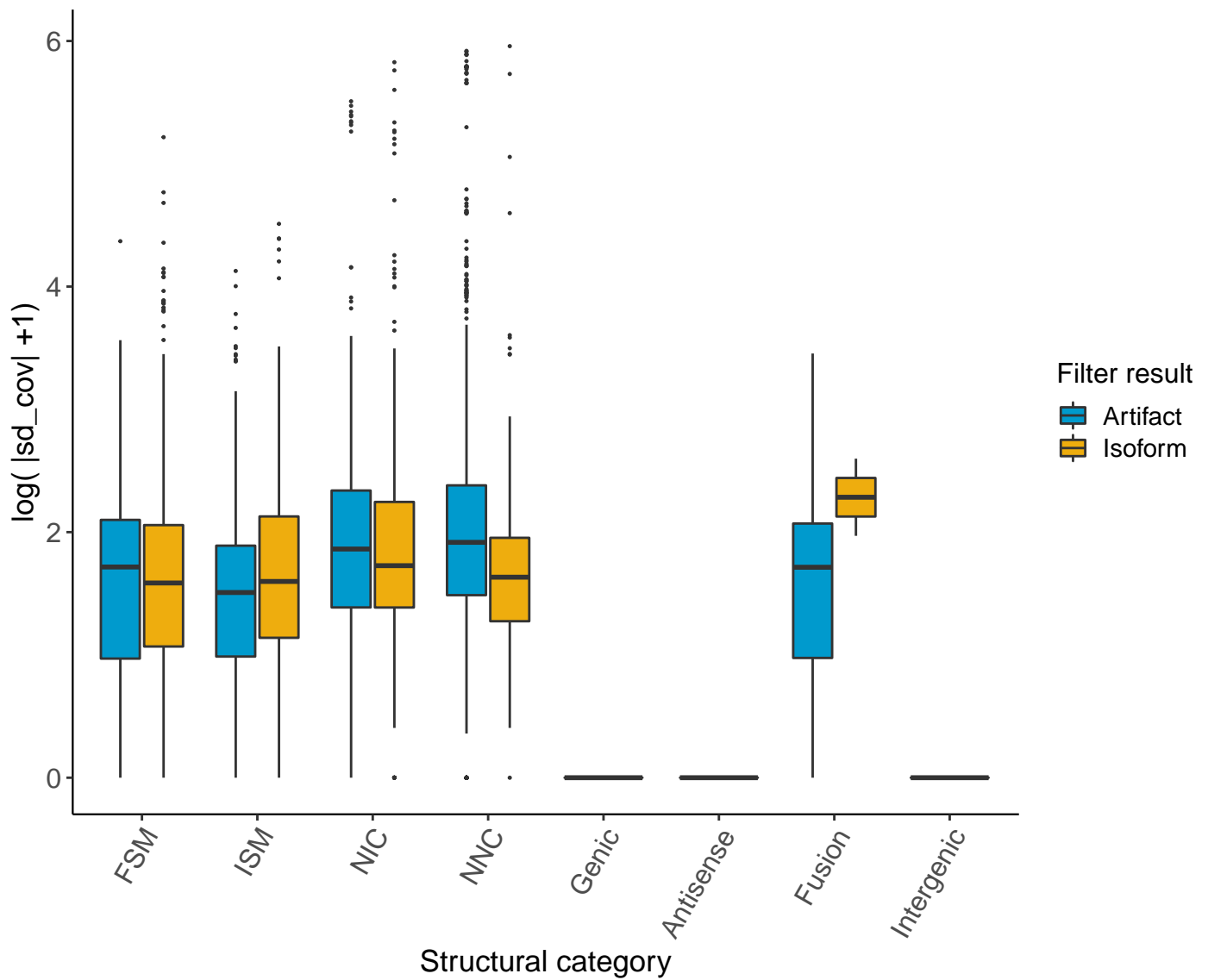
bite – ML importance: 14.46



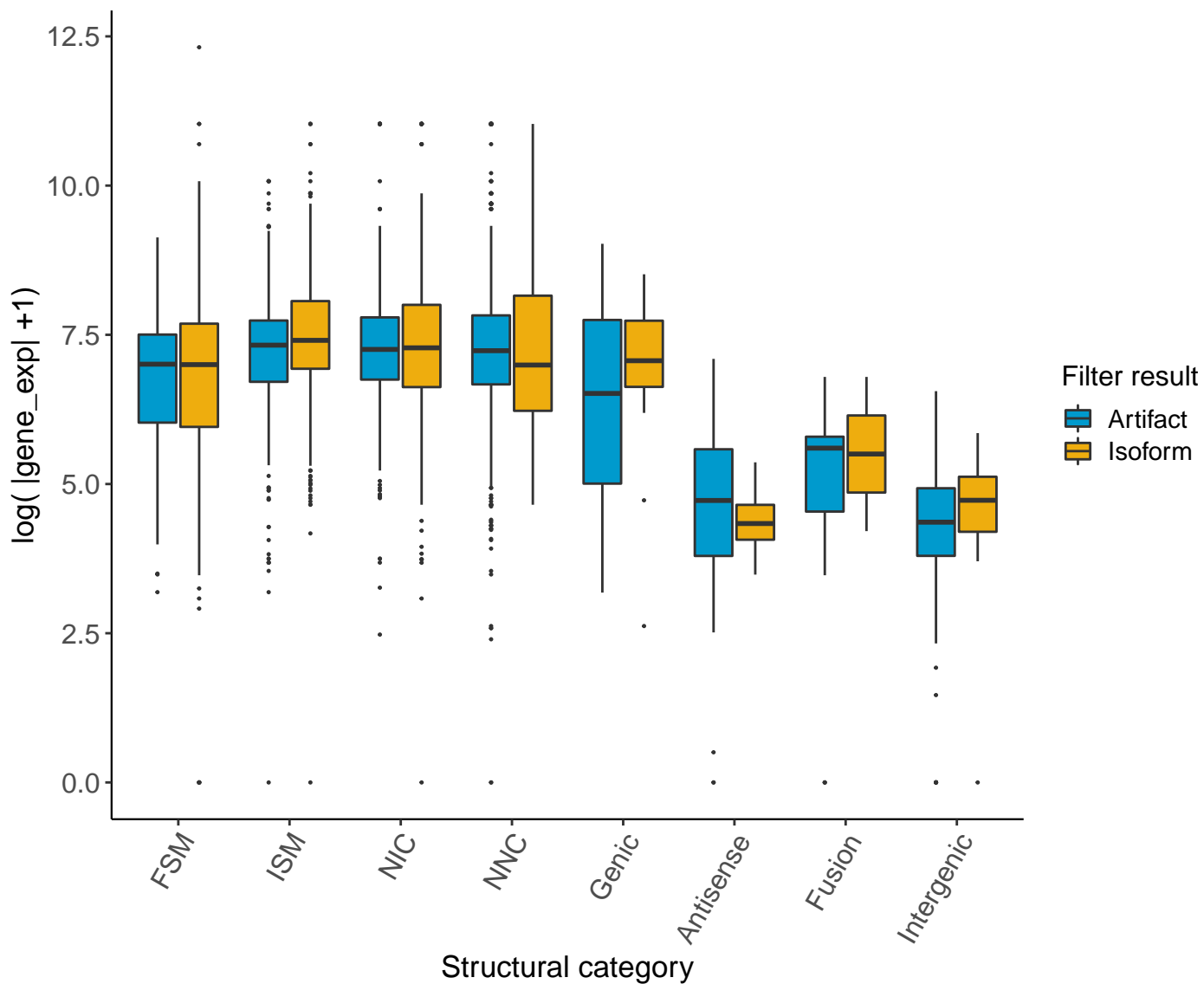
min_sample_cov – ML importance: 13.96



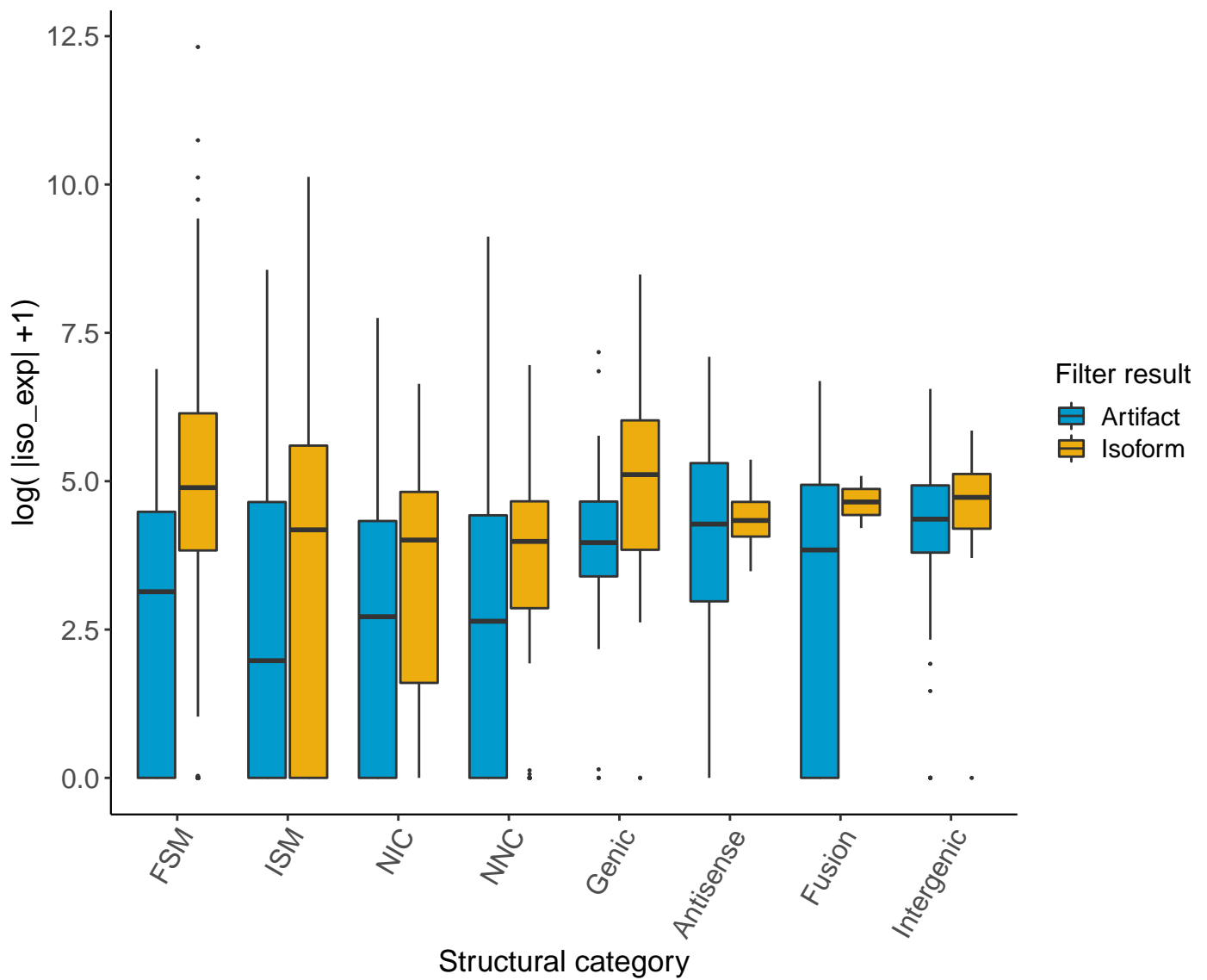
sd_cov – ML importance: 11.06



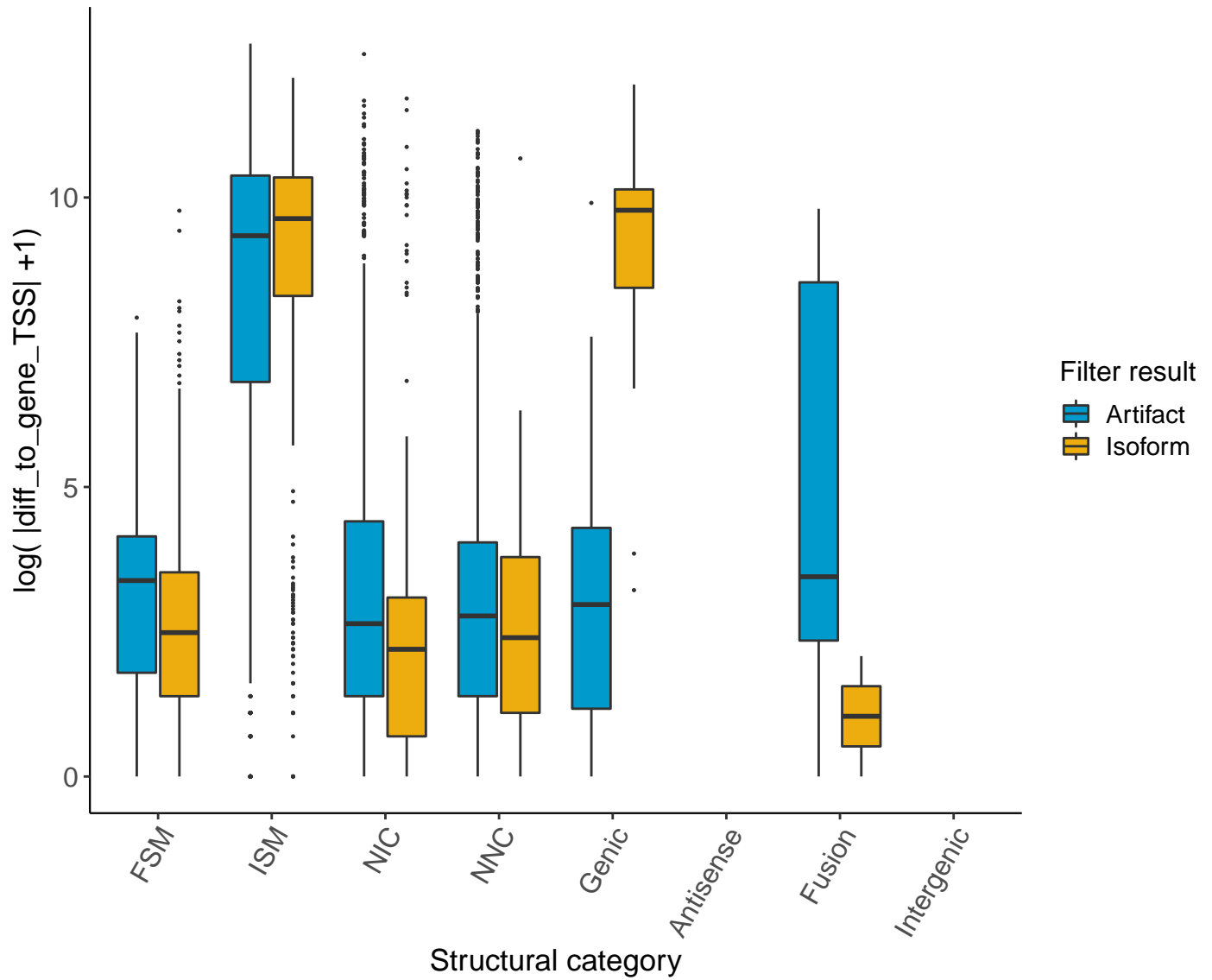
gene_exp – ML importance: 10.99



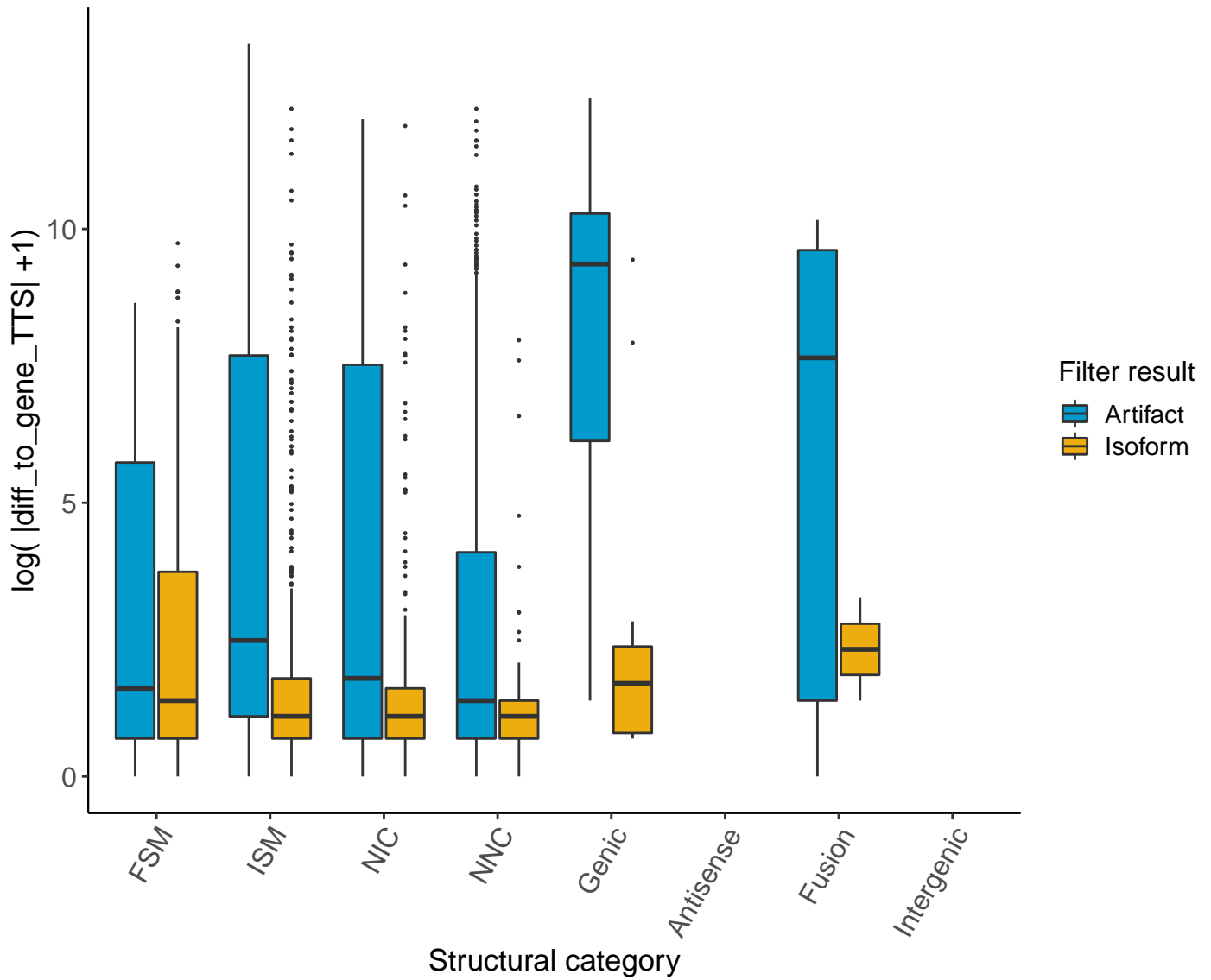
iso_exp – ML importance: 6.69



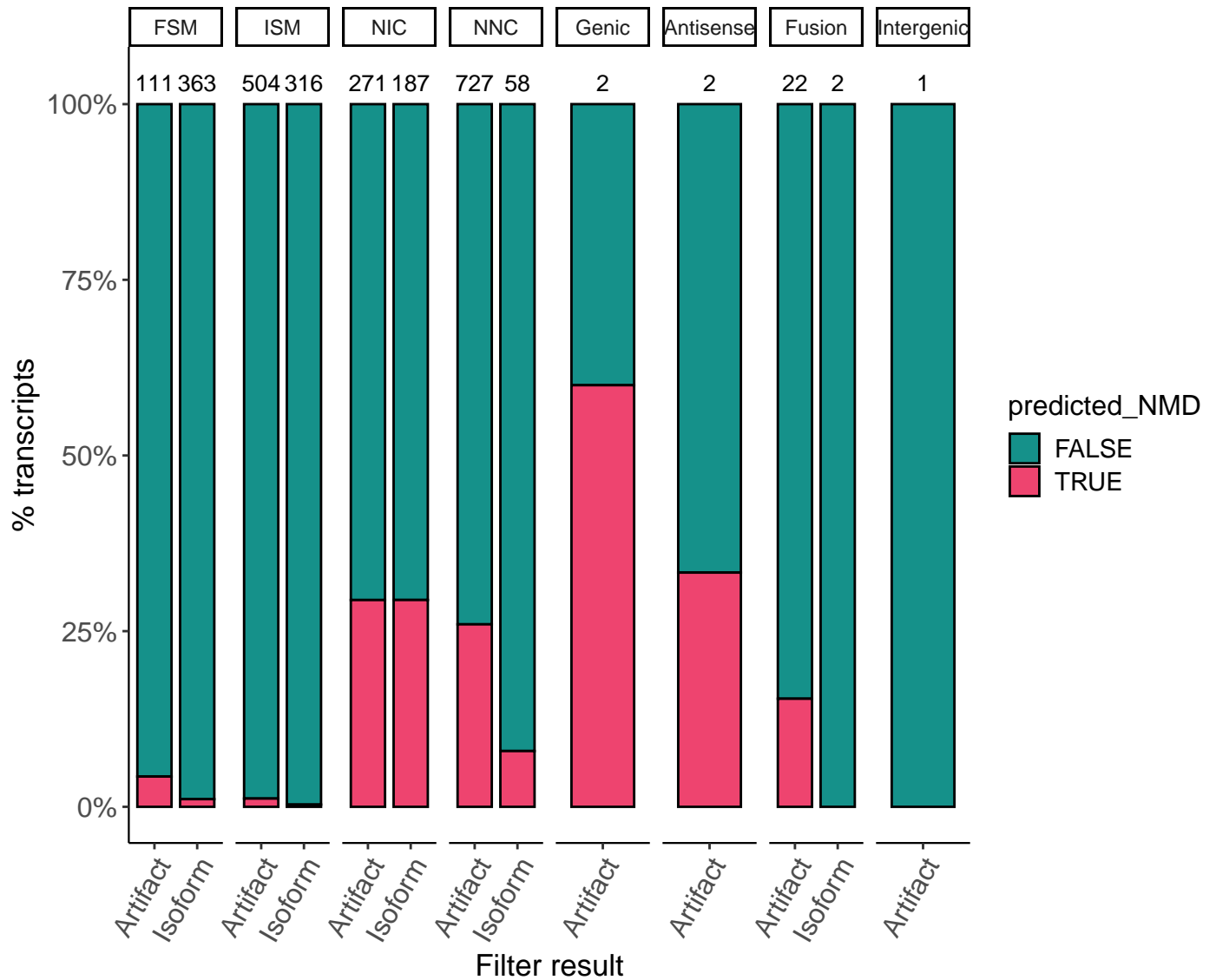
diff_to_gene_TSS – ML importance: 6.1



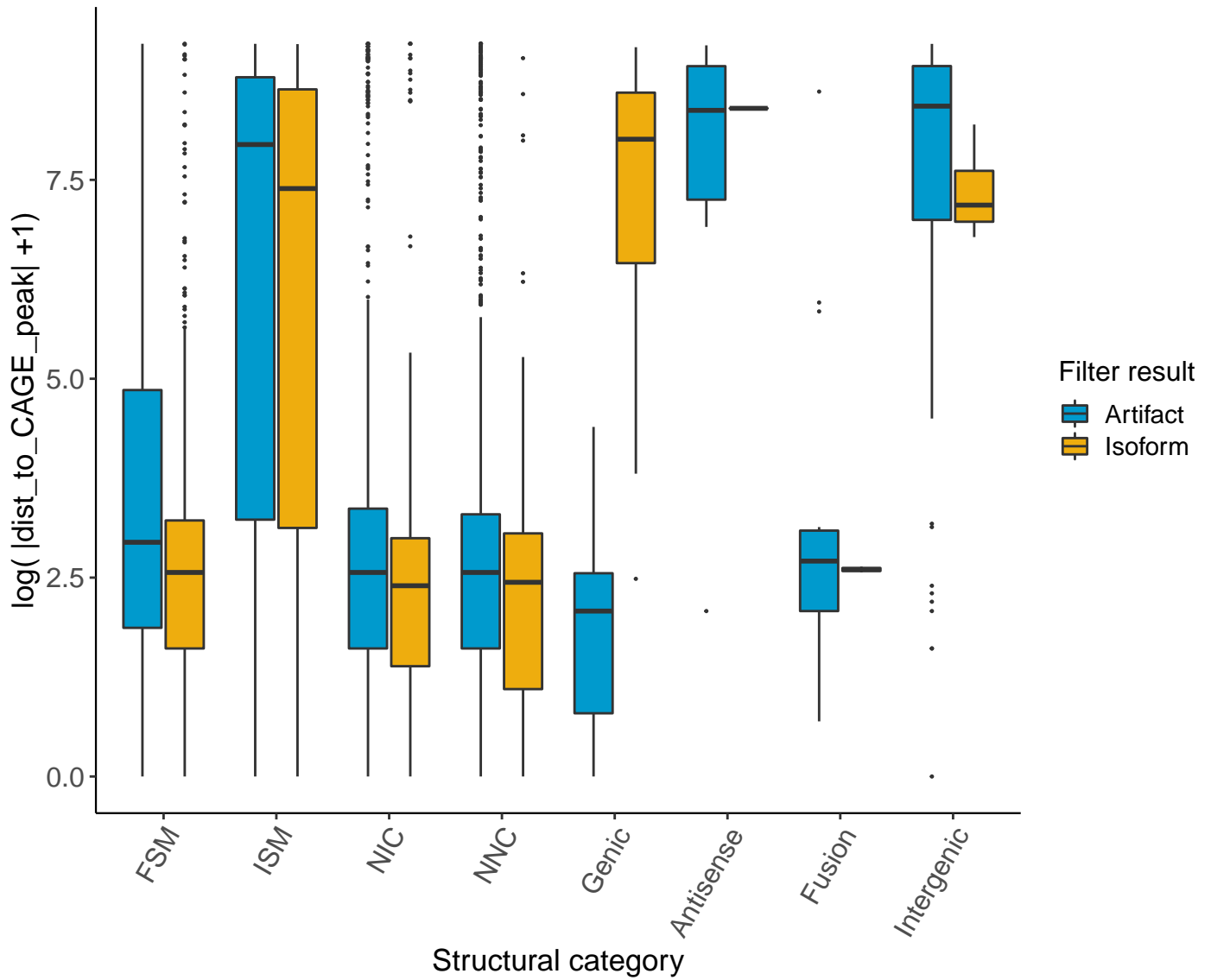
diff_to_gene_TTS – ML importance: 5.93



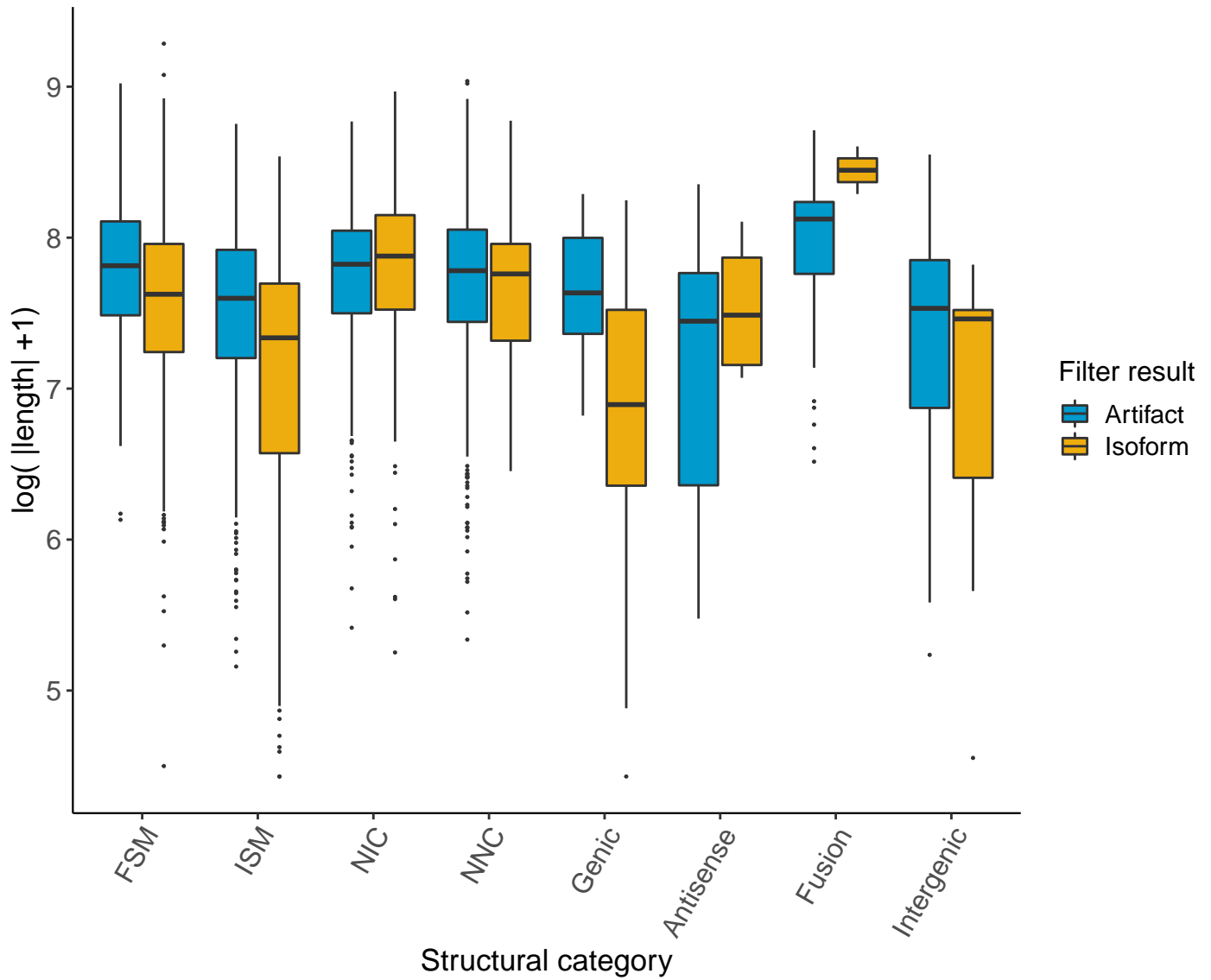
predicted_NMD – ML importance: 5.71



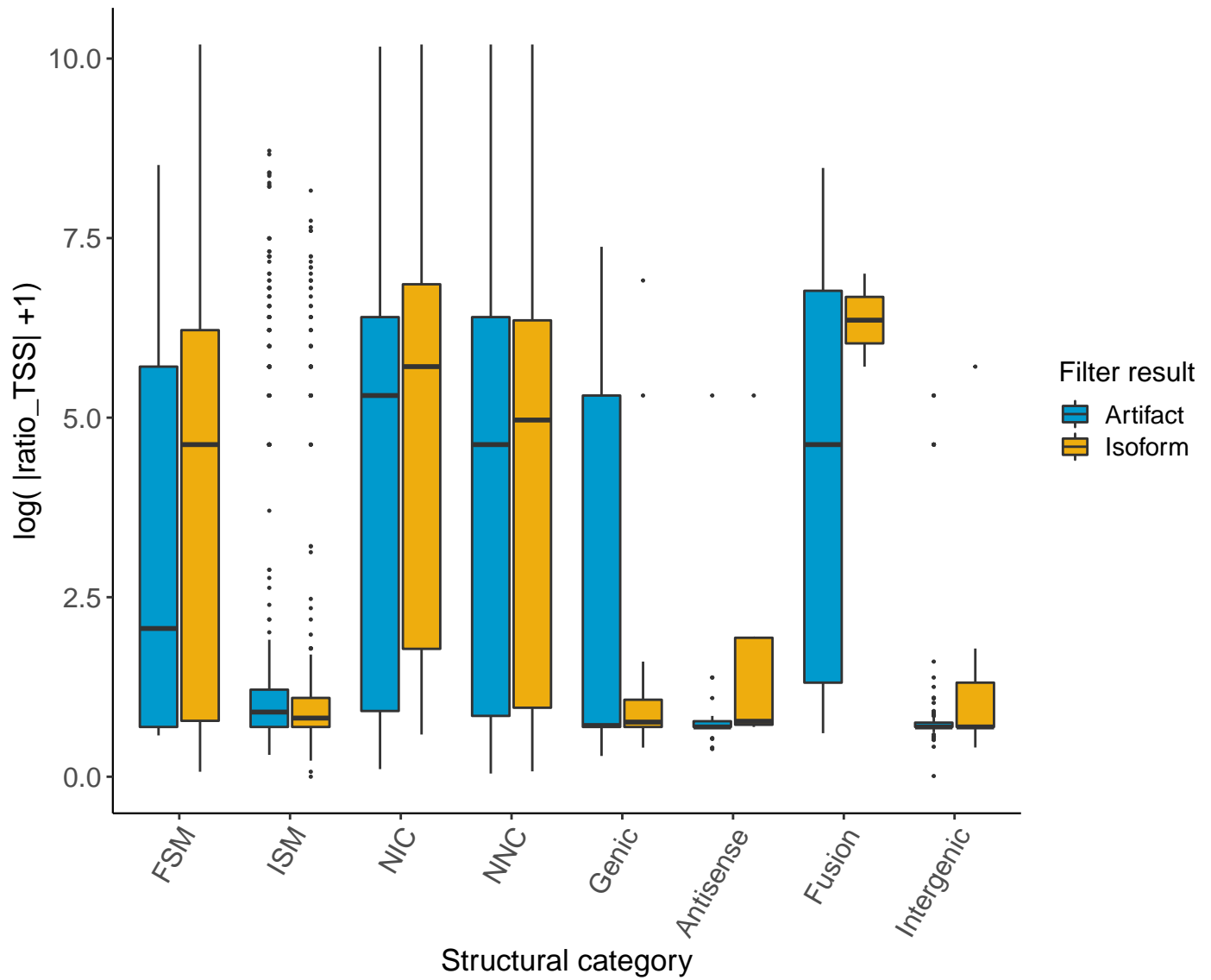
dist_to_CAGE_peak – ML importance: 5.28



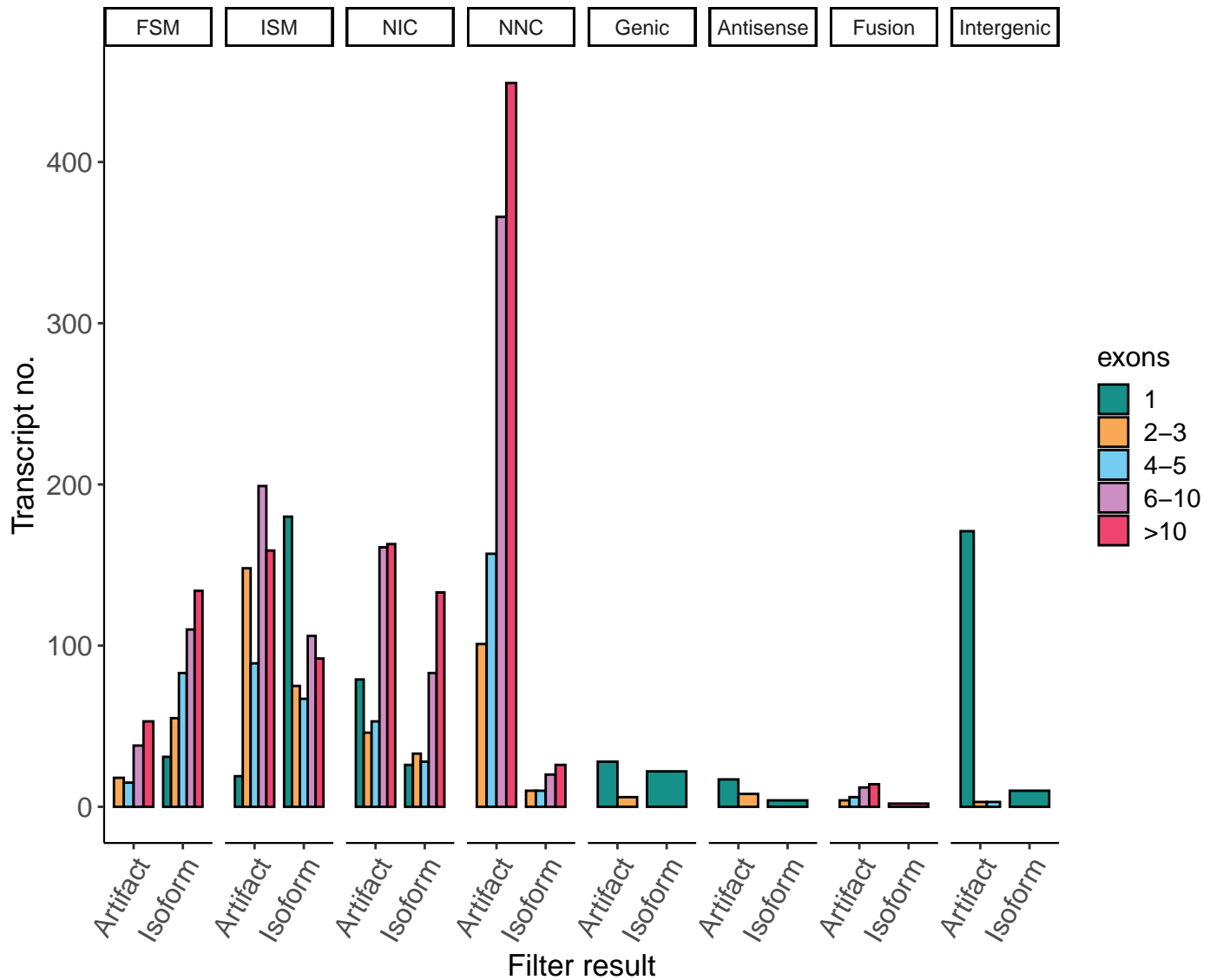
length – ML importance: 5.15



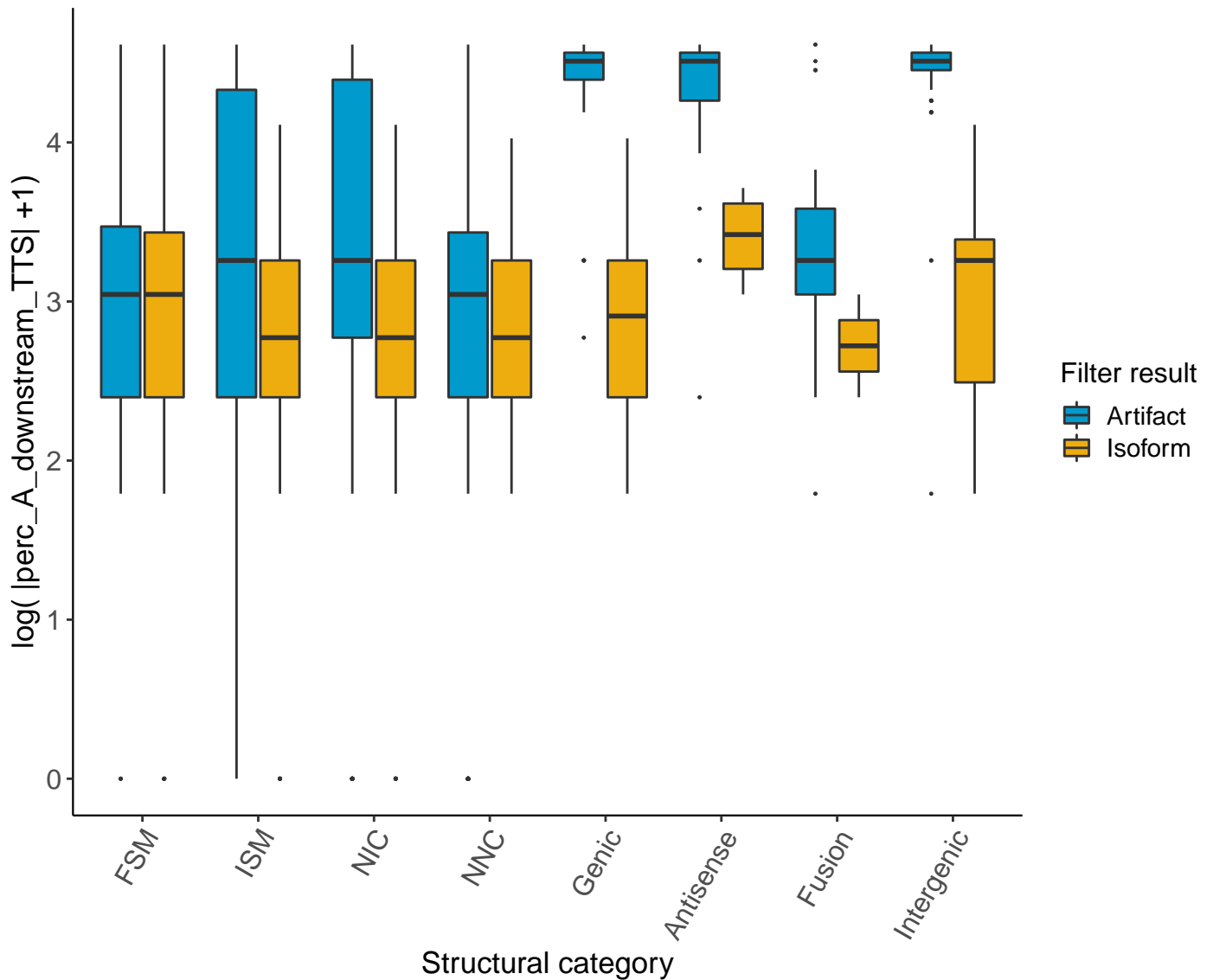
ratio_TSS – ML importance: 4.64



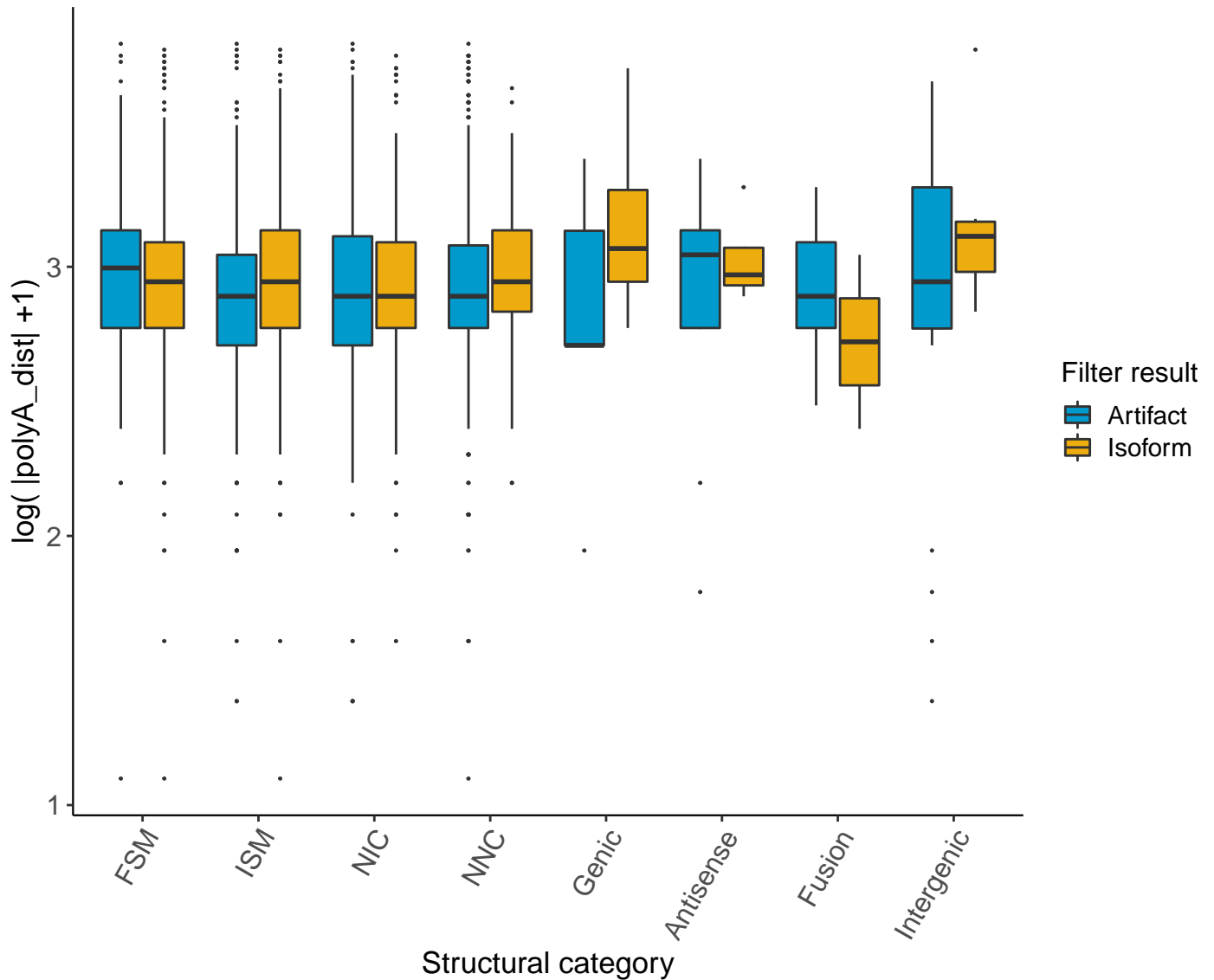
exons – ML importance: 4.13



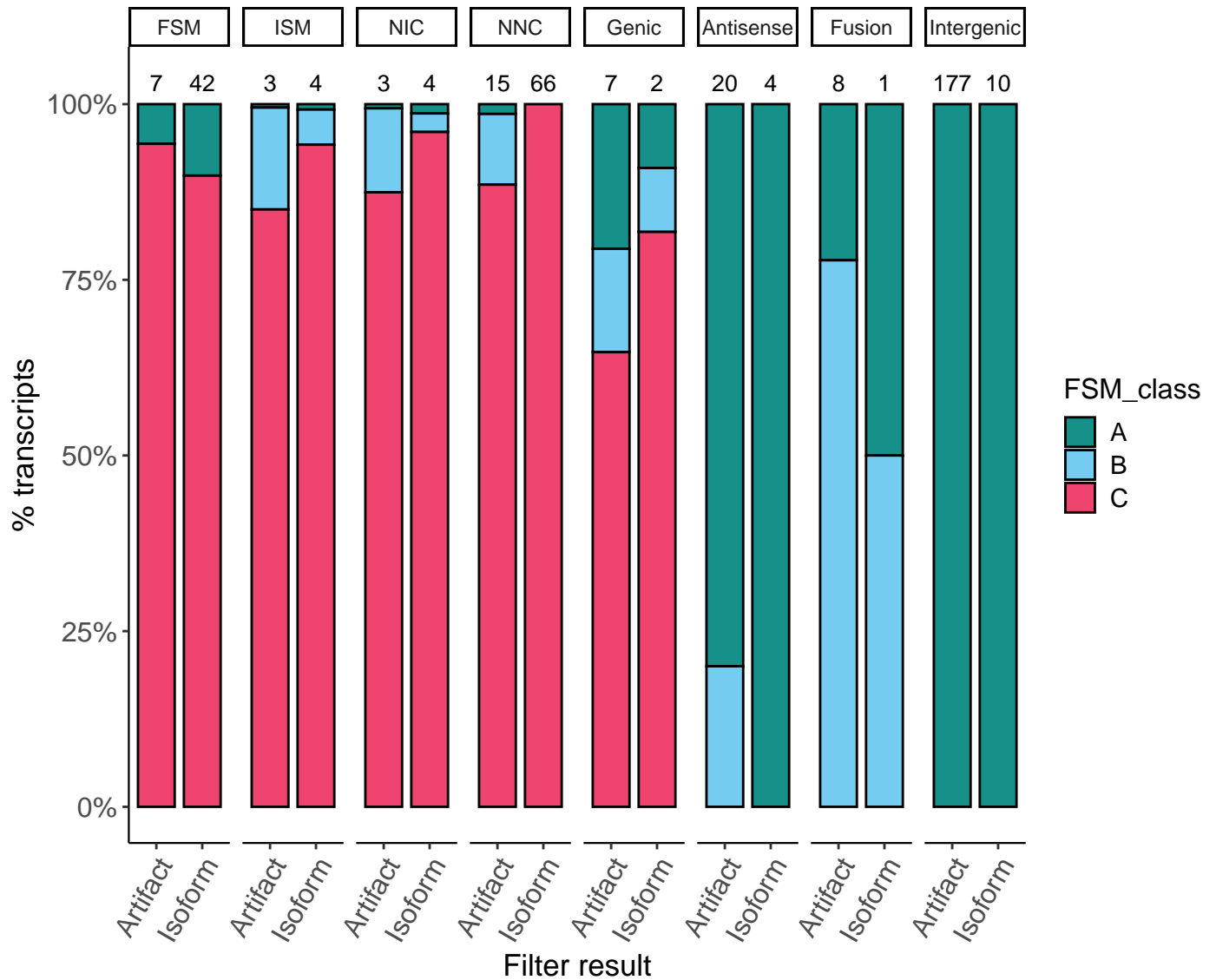
perc_A_downstream_TTS – ML importance: 3.9



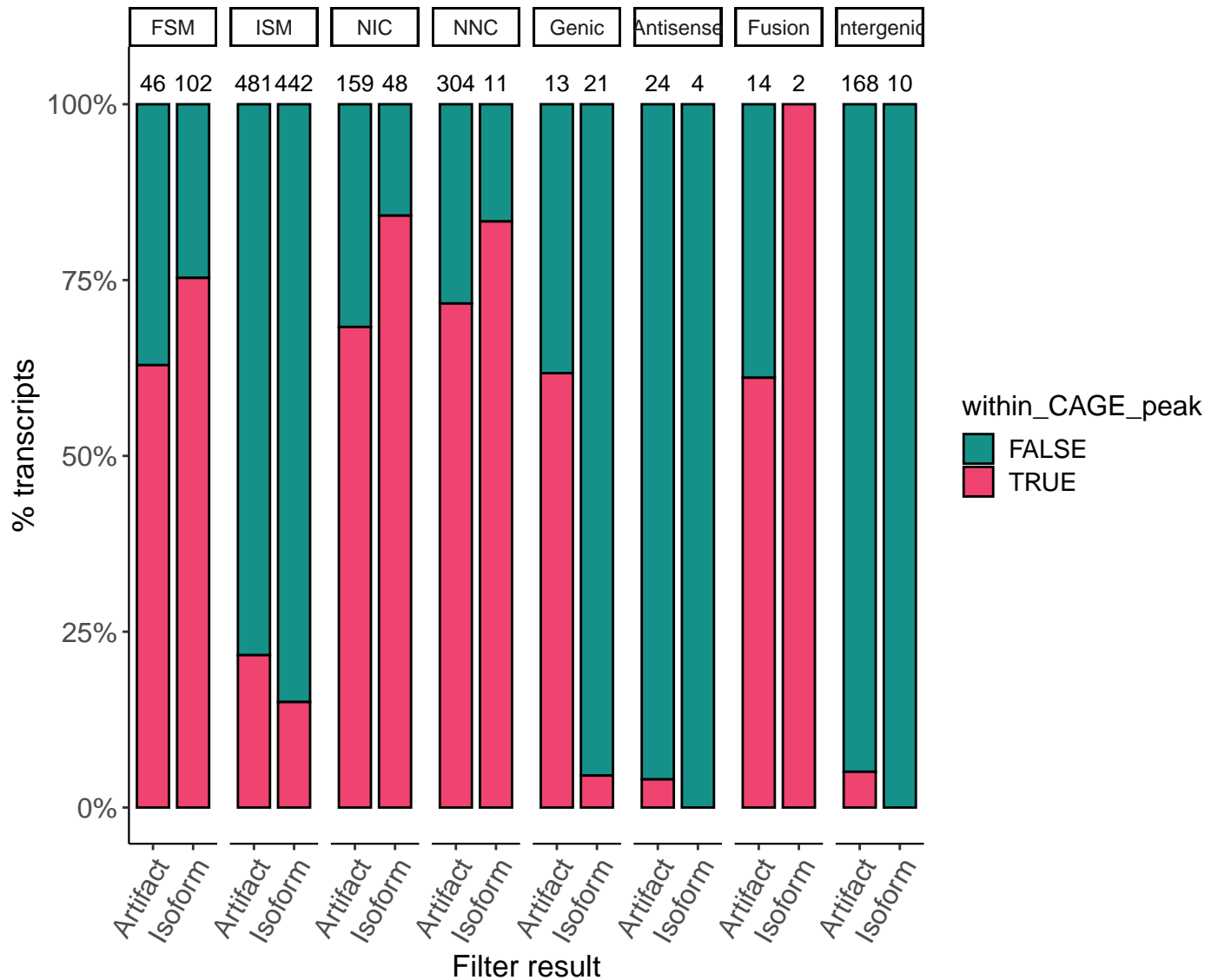
polyA_dist – ML importance: 3.41



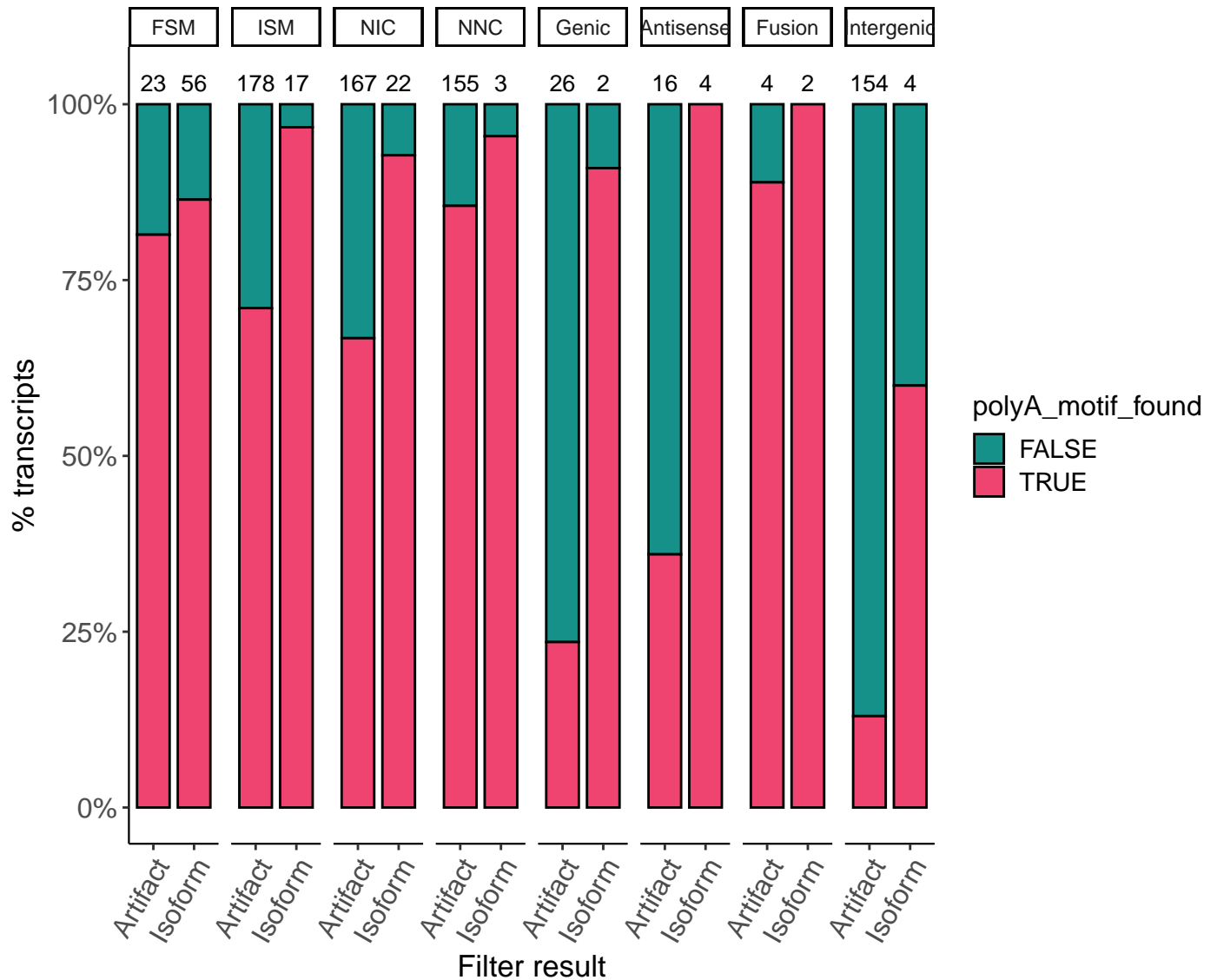
FSM_class – ML importance: 2.99



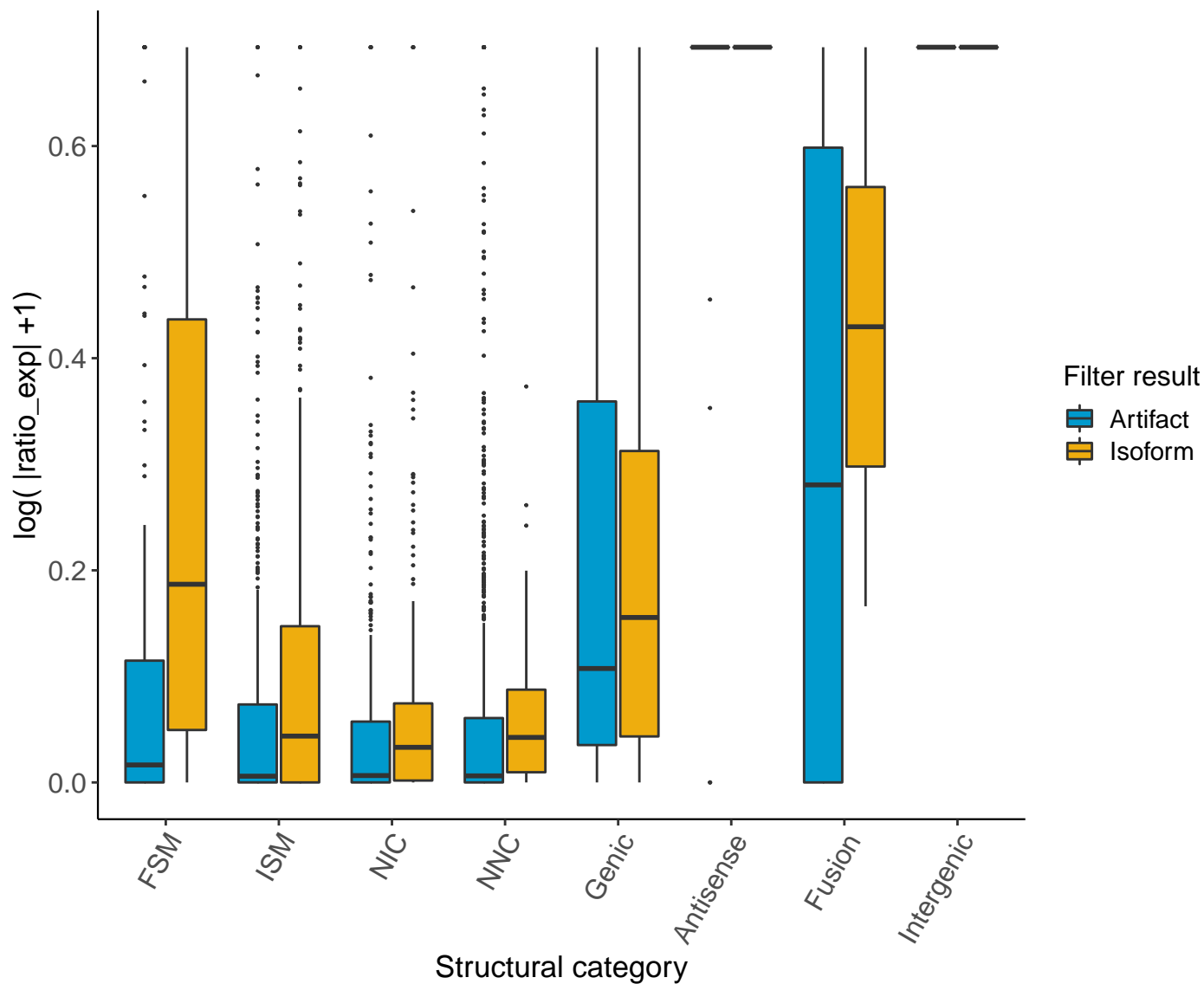
within_CAGE_peak – ML importance: 0.99



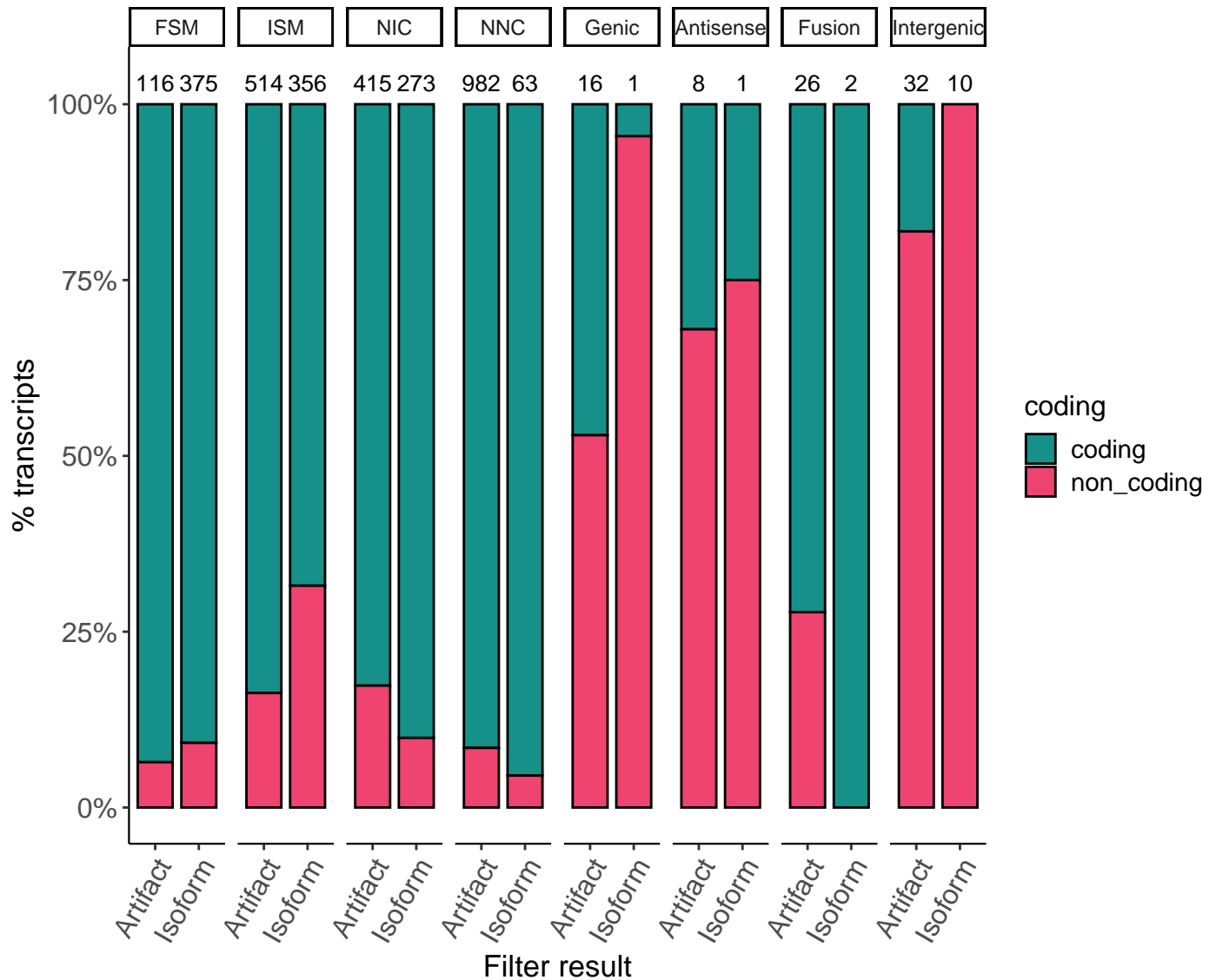
polyA_motif_found – ML importance: 0.52



ratio_exp – ML importance: 0.4

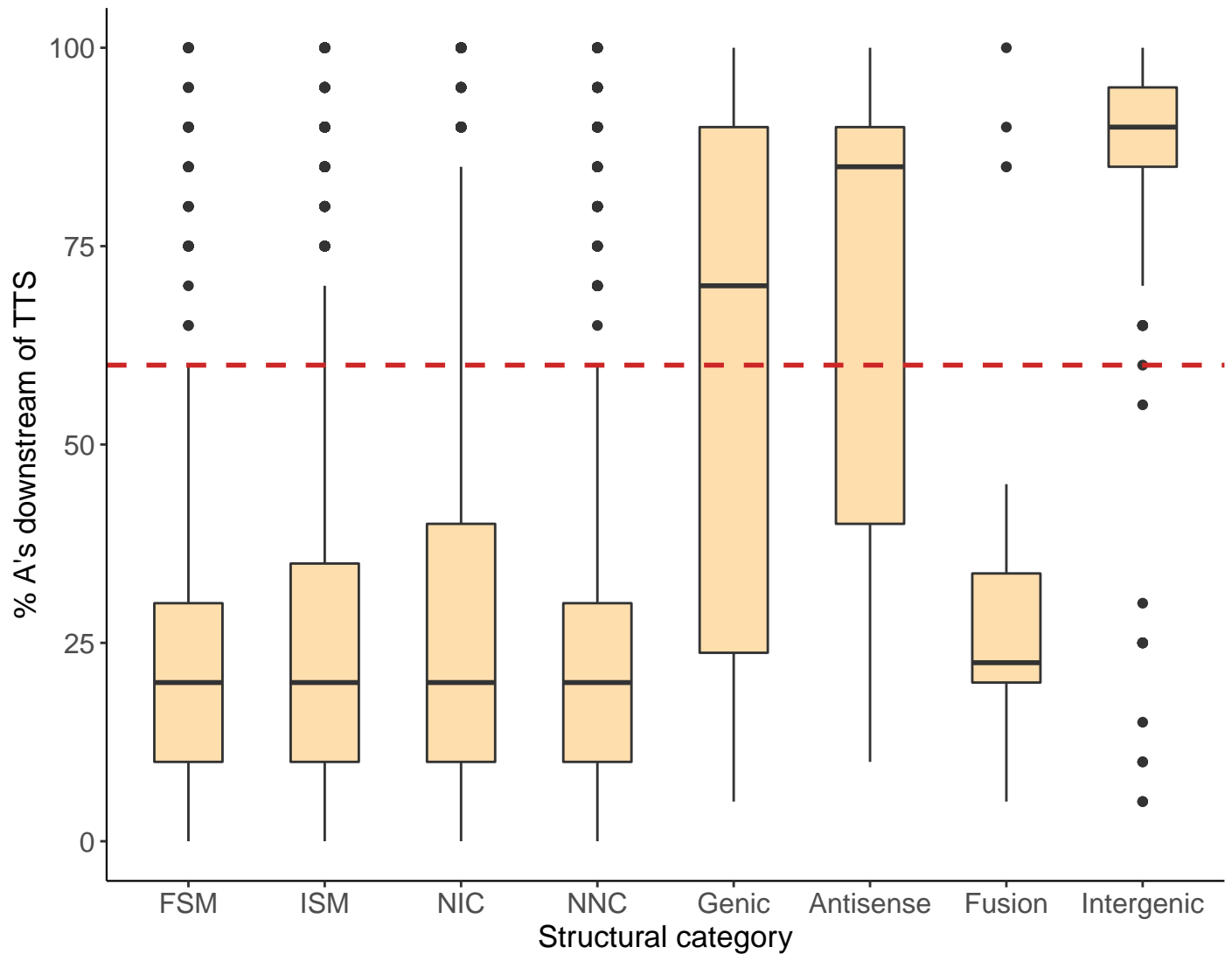


coding – ML importance: 0.31

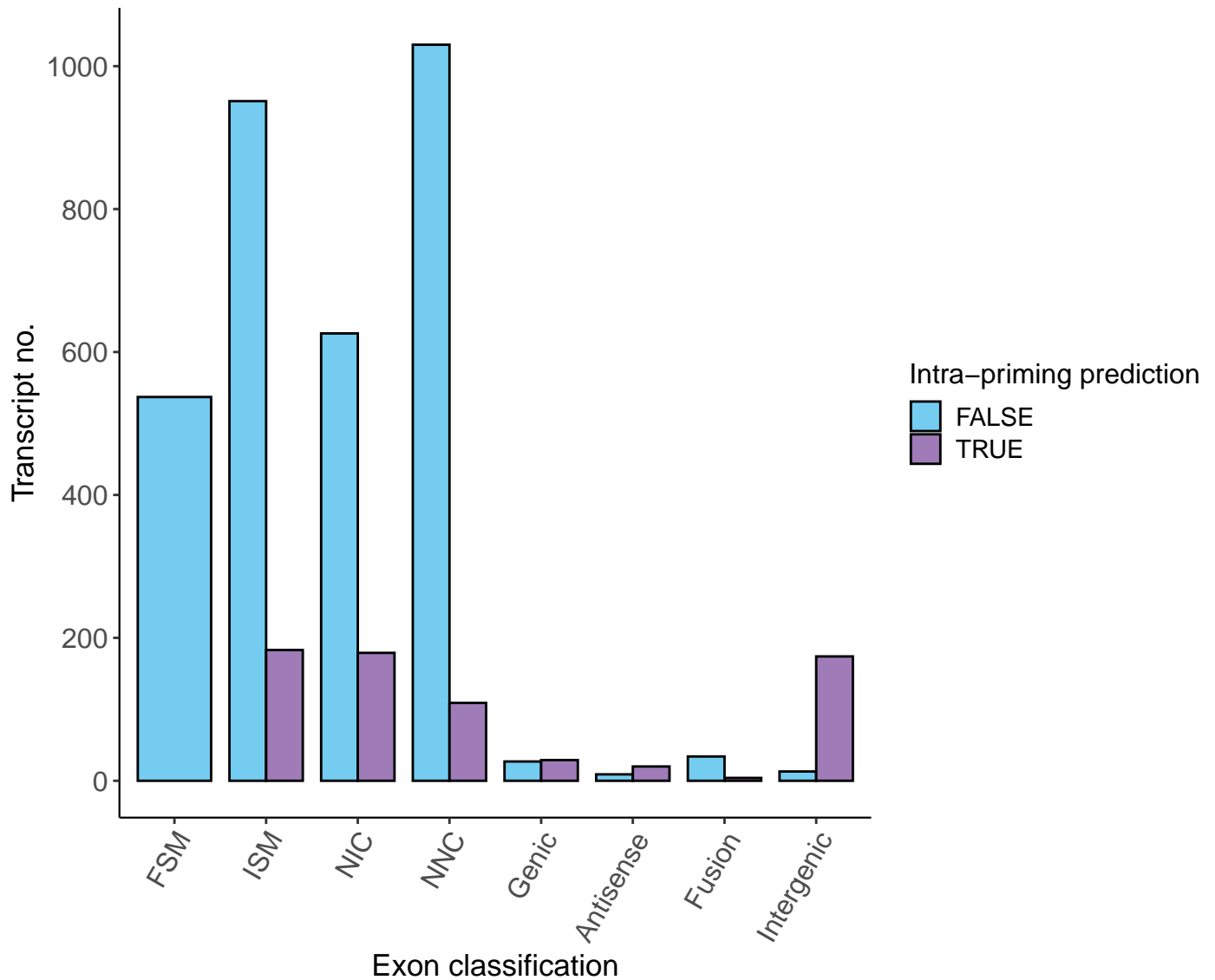


A % by category

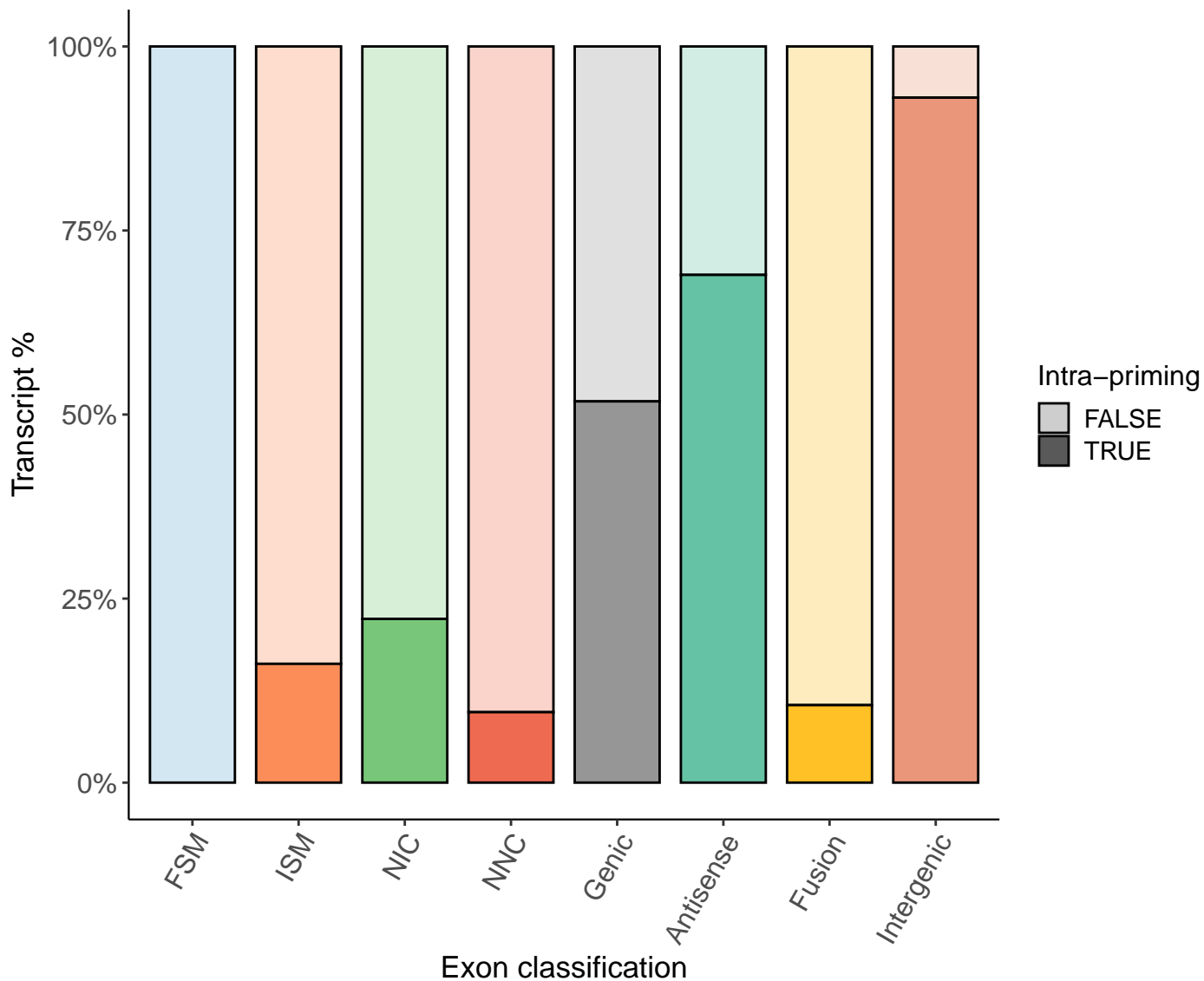
Red line indicates threshold employed in ML filter



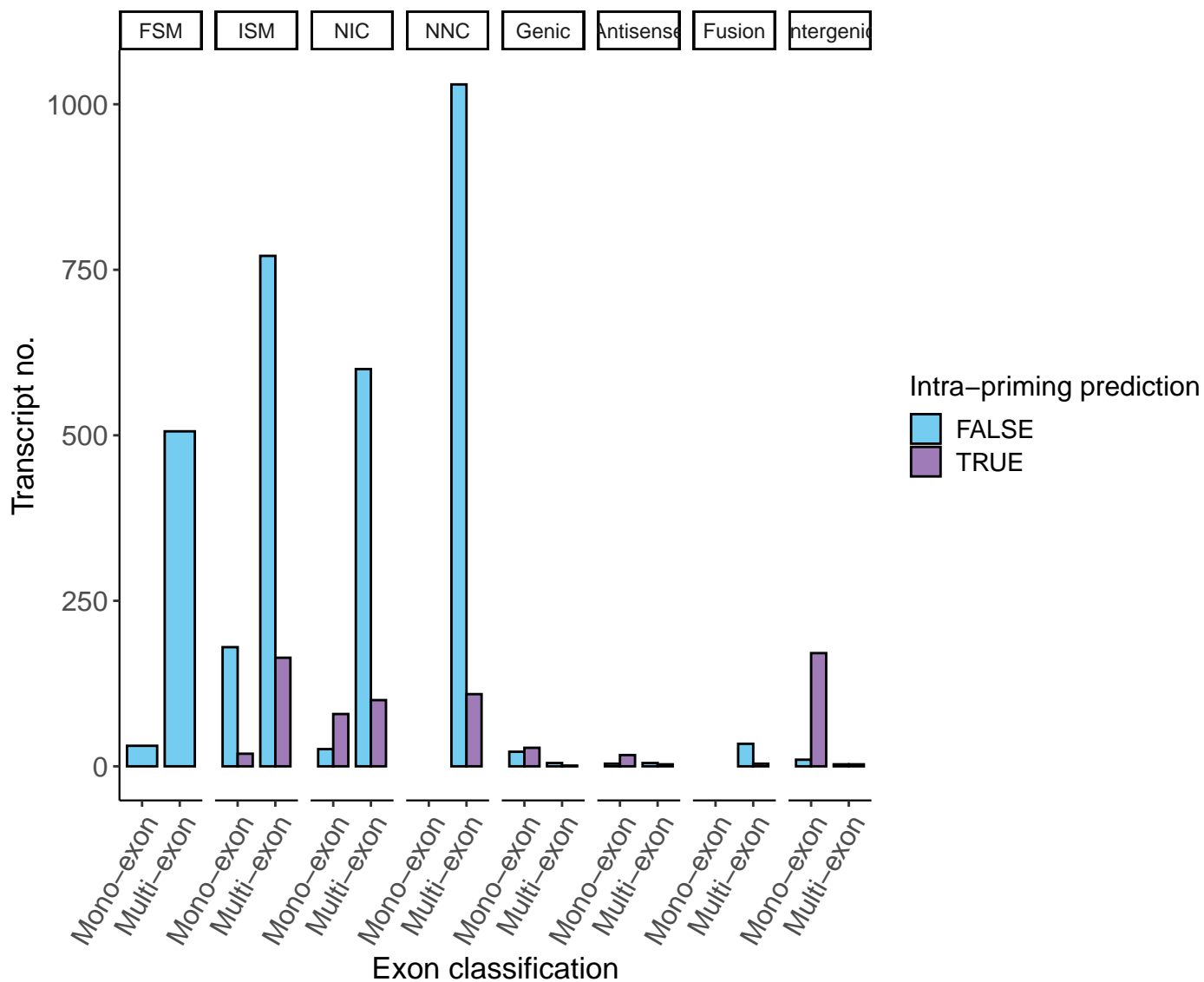
Isoforms flagged as intra-priming, by category



Isoforms flagged as intra-priming, by category (%)



Isoforms flagged as intra-priming, by exon number



Isoforms flagged as intra-priming, by exon number (%)

