SQANTI3 filter report

Total Genes: 651

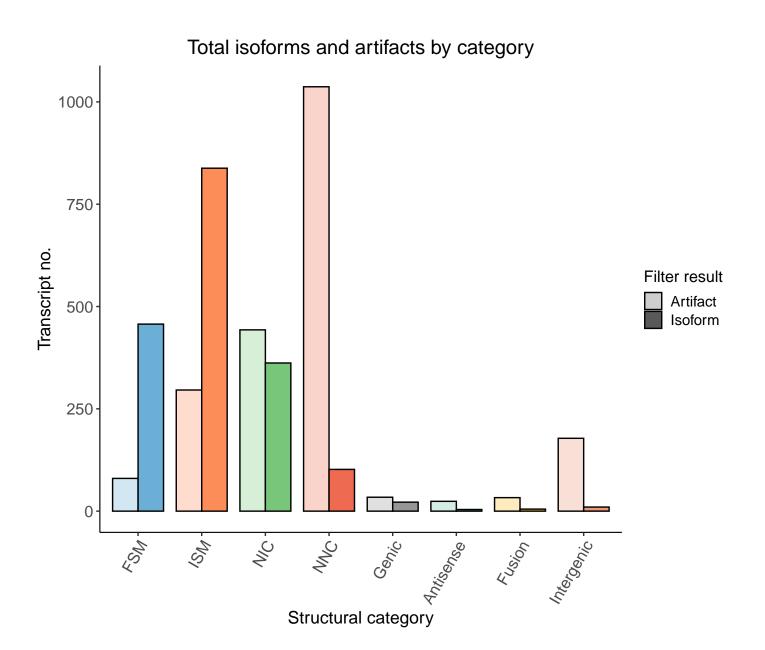
Total Transcripts: 3925

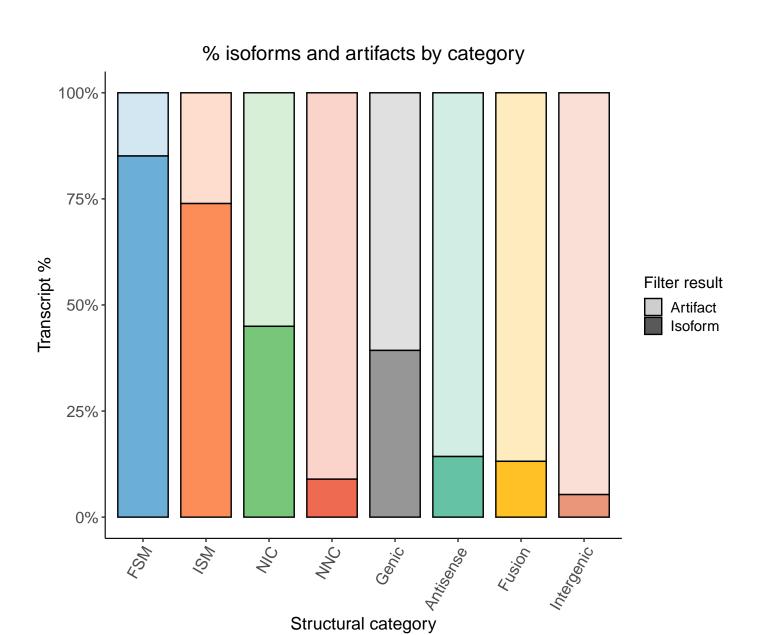
- Isoforms: 1800 (46%)

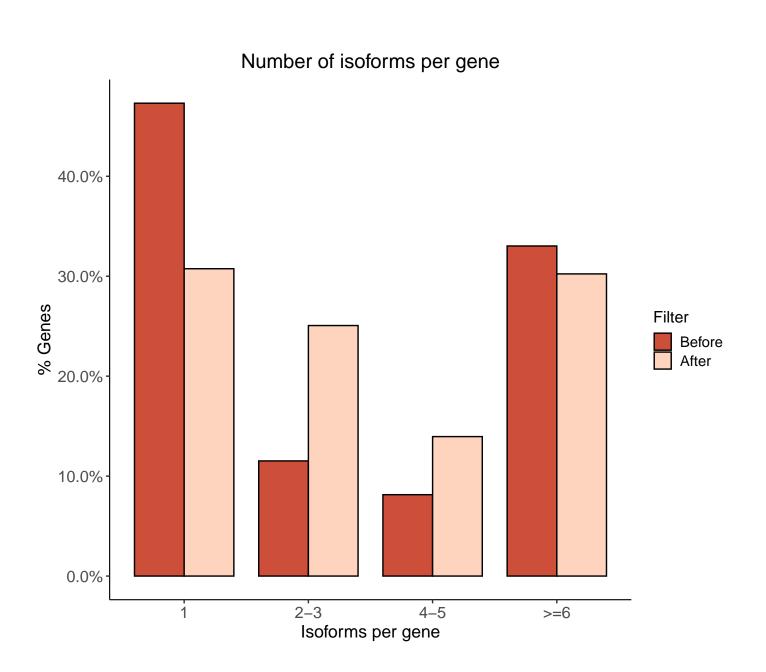
- Artifacts: 2125 (54%)

Gene category	Gene no.	No. of genes with artifacts only
Annotated	437	64
Novel	214	200

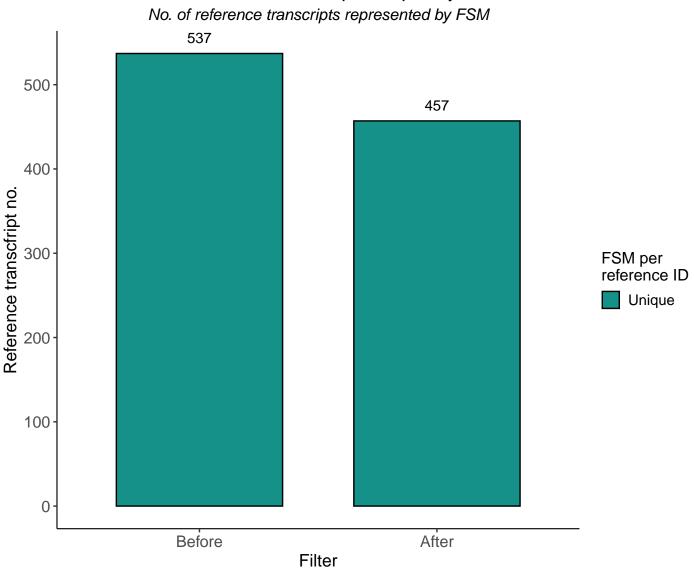
Structural category	Artifact no.	Isoform no.
FSM	80	457
ISM	296	838
NIC	443	362
NNC	1037	102
Genic	34	22
Antisense	24	4
Fusion	33	5
Intergenic	178	10



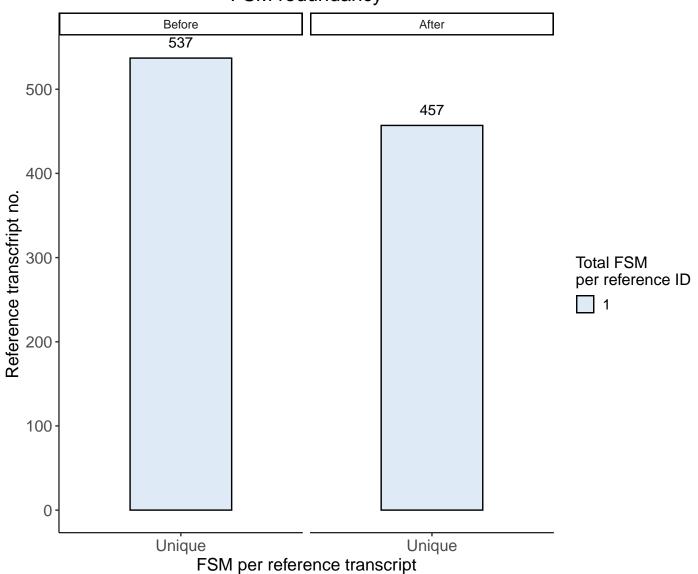




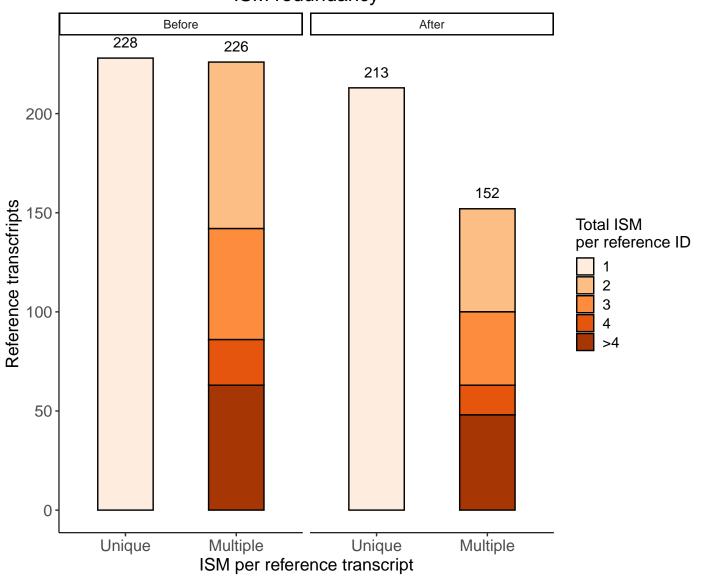
Reference transcript complexity



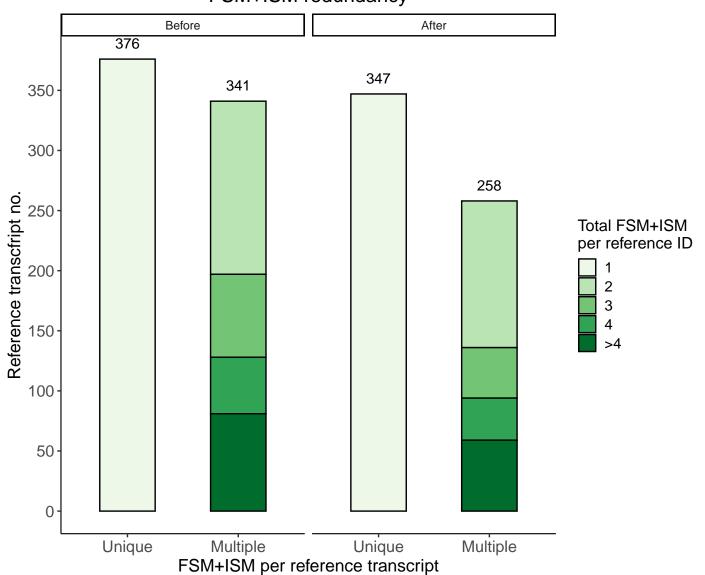
FSM redundancy

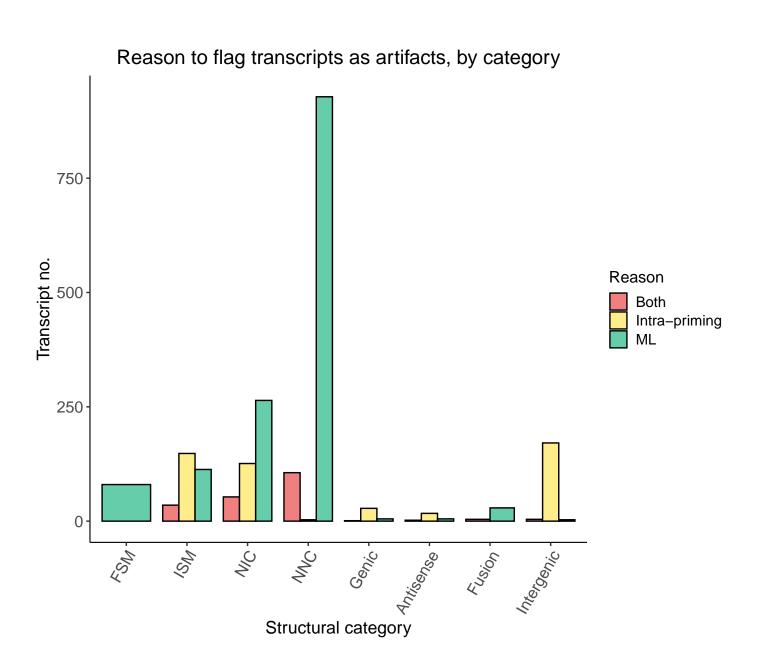


ISM redundancy

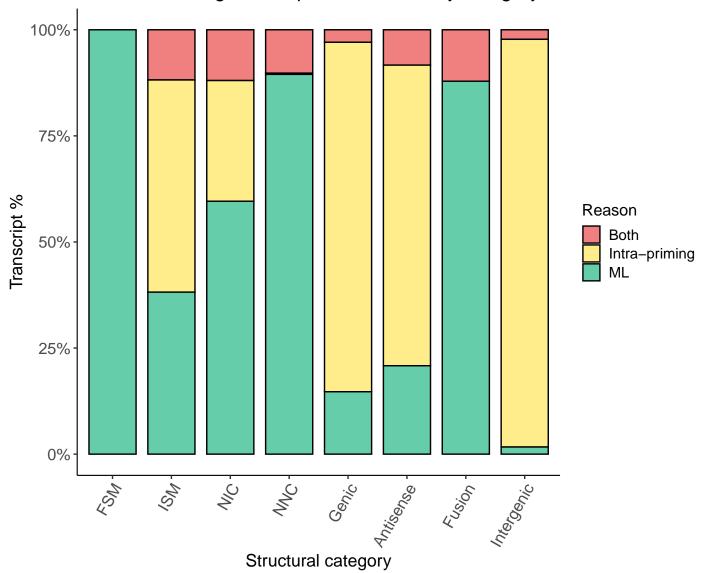


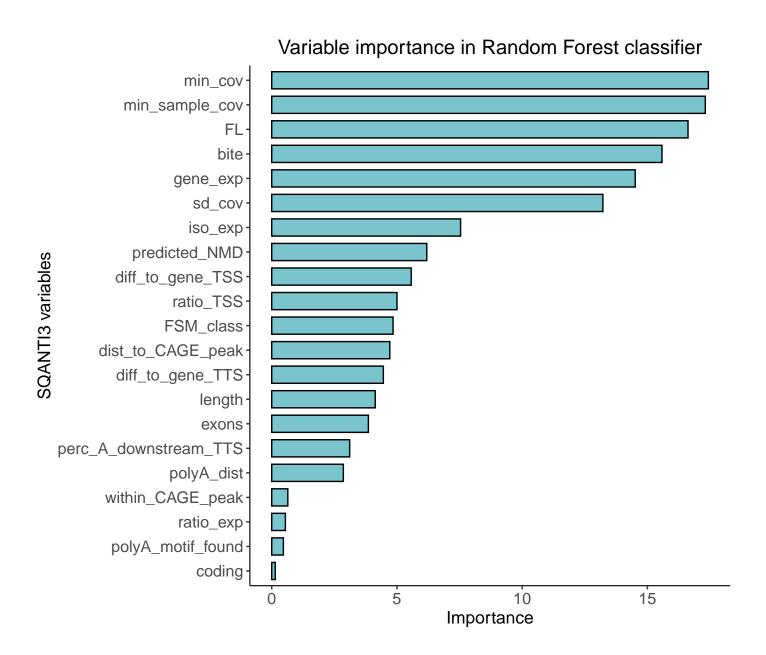
FSM+ISM redundancy

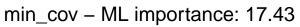


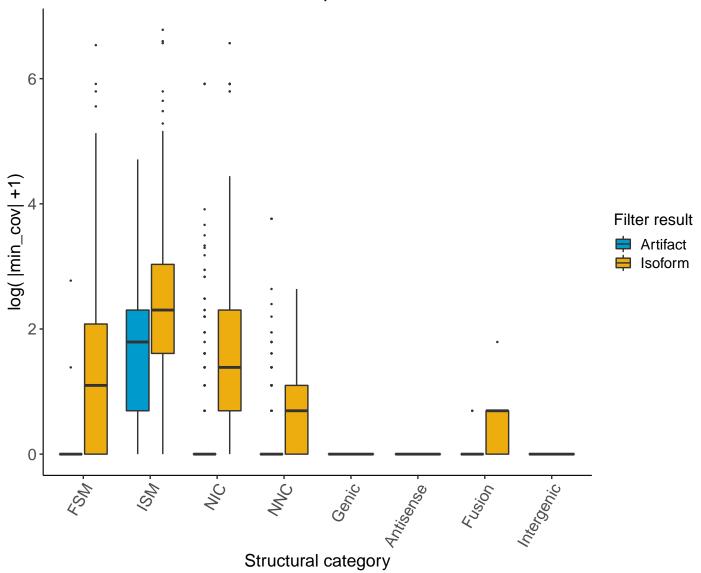


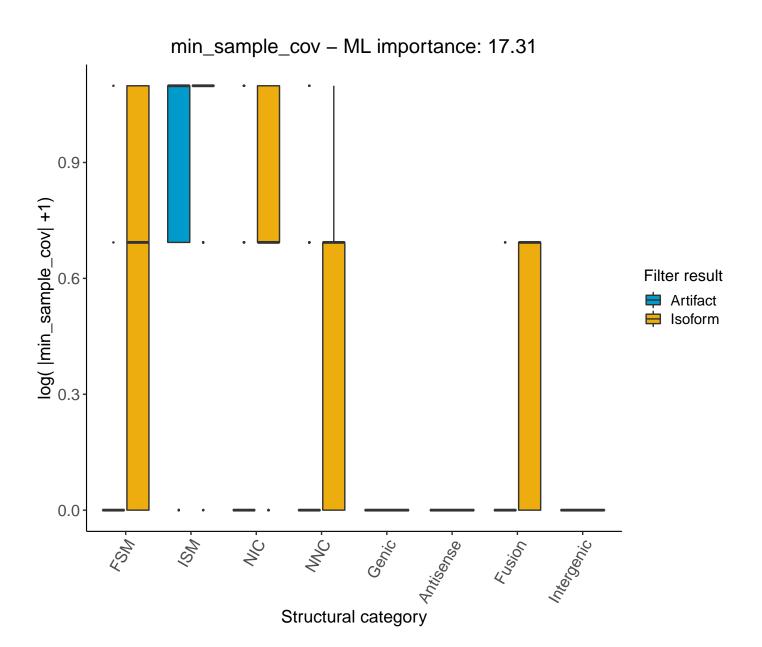
Reason to flag transcripts as artifacts, by category



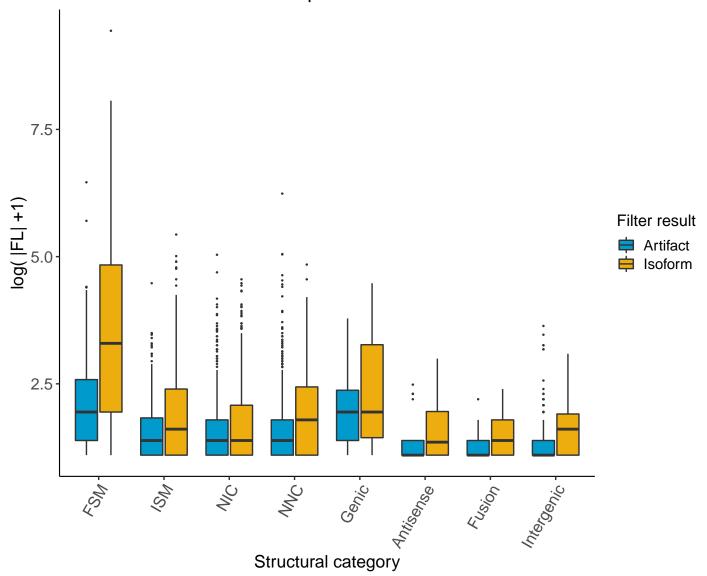




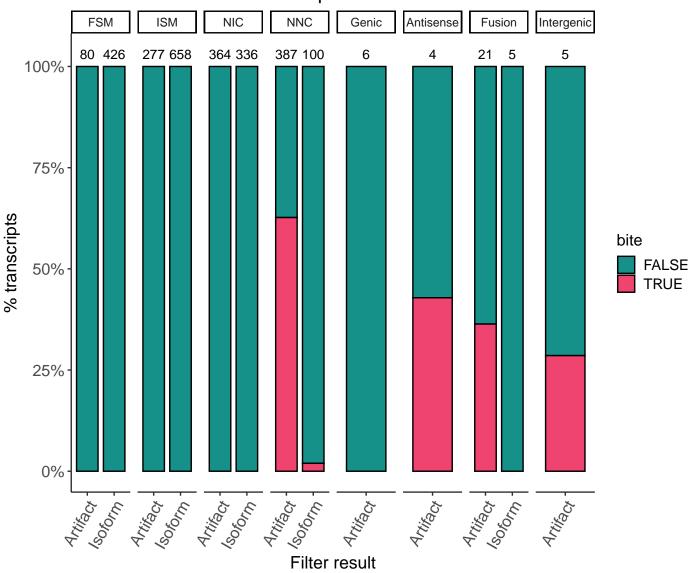




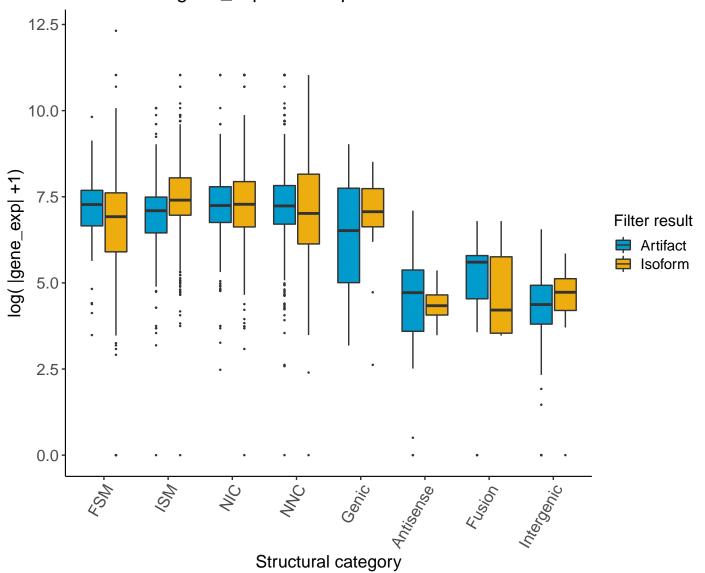
FL – ML importance: 16.62

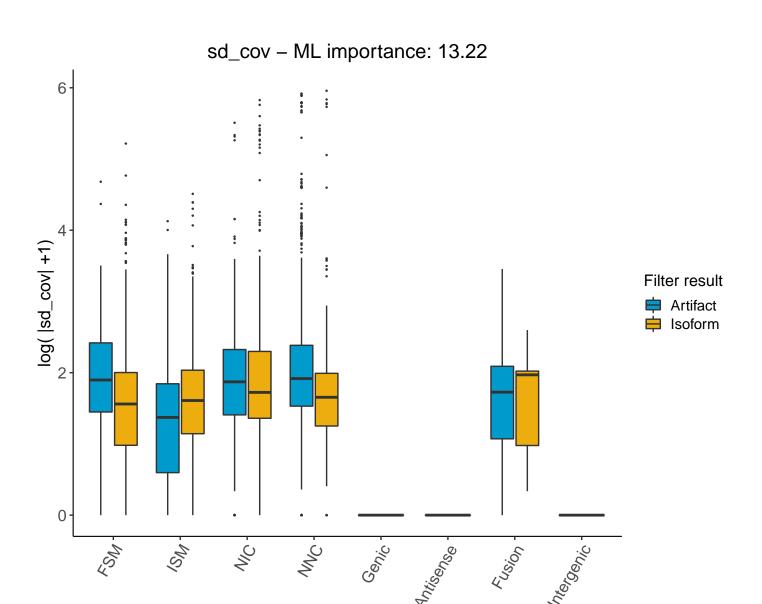


bite – ML importance: 15.58



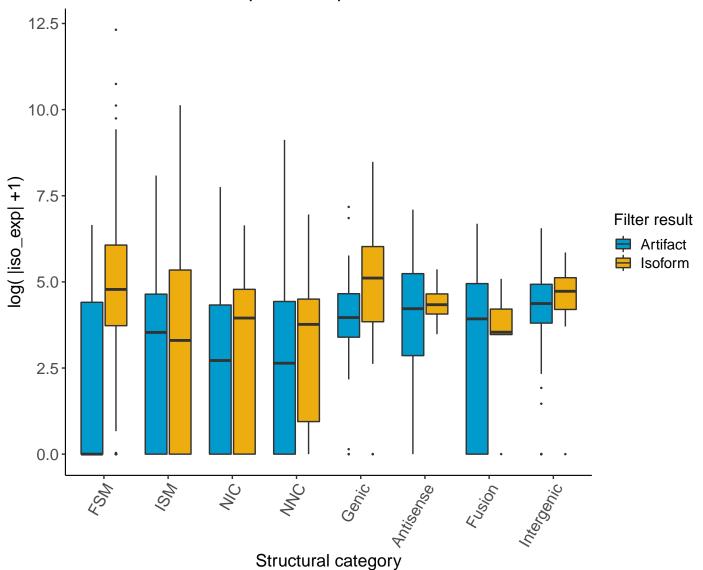
gene_exp - ML importance: 14.51



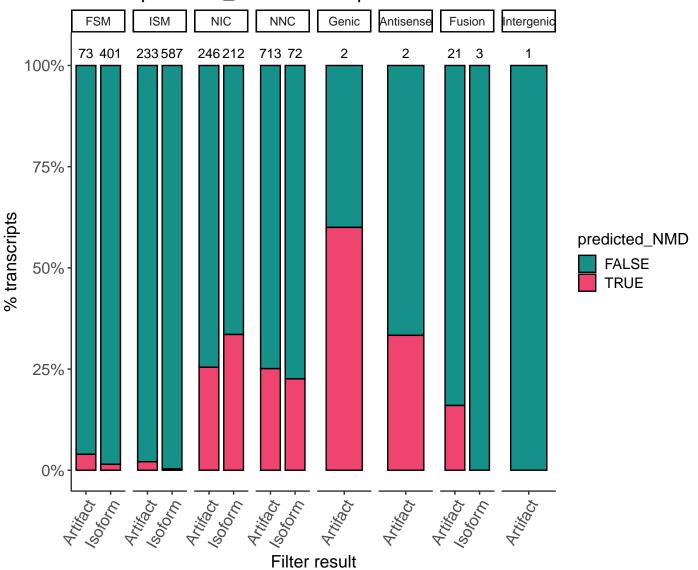


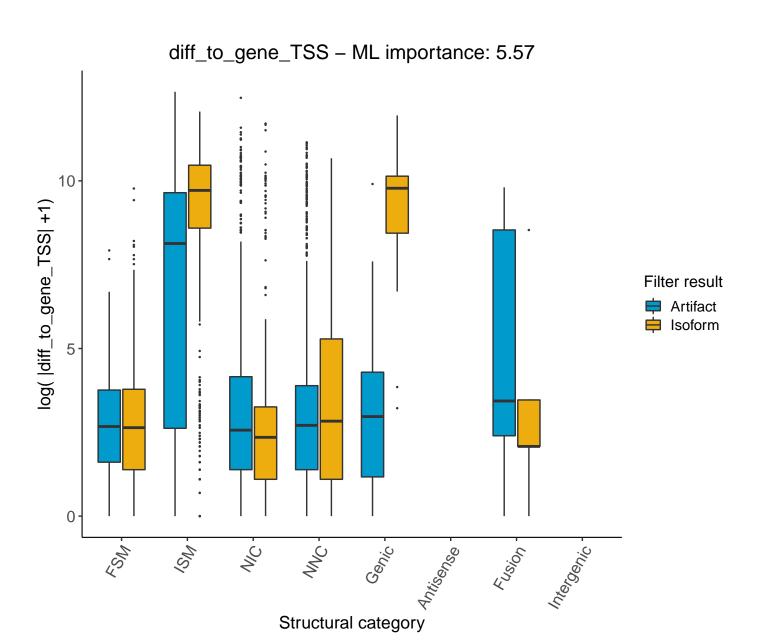
Structural category

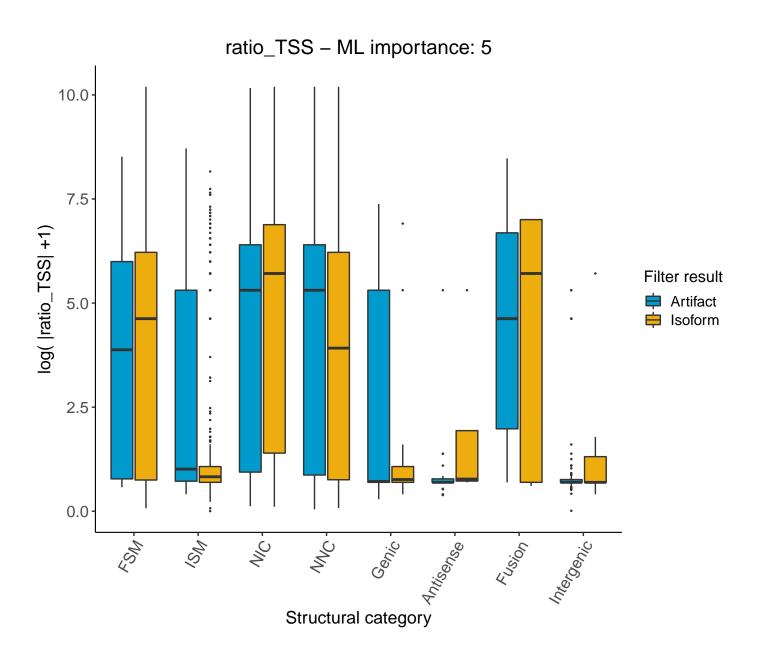
iso_exp - ML importance: 7.54



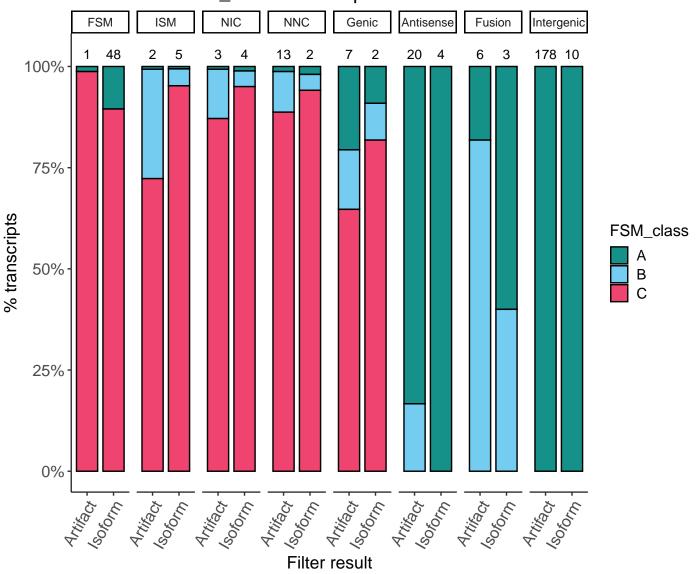
predicted_NMD - ML importance: 6.19







FSM_class - ML importance: 4.84



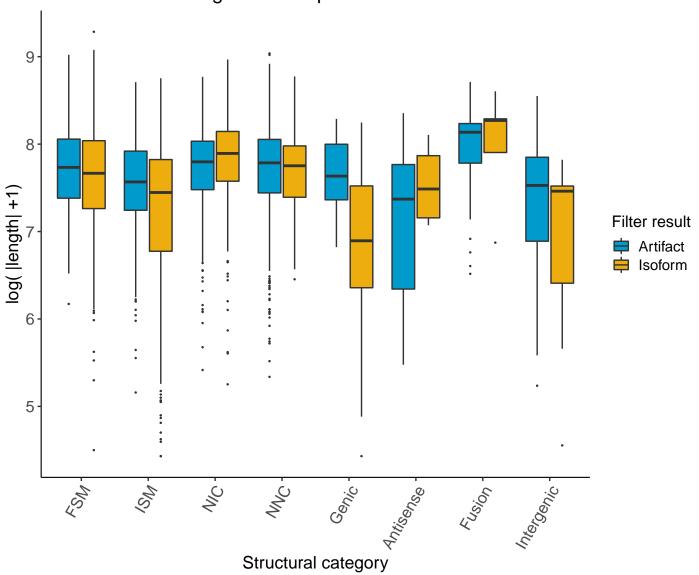
dist_to_CAGE_peak - ML importance: 4.71 7.5 log(|dist_to_CAGE_peak| +1) Filter result Artifact Isoform 0.0 WC. N_C

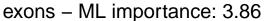
Structural category

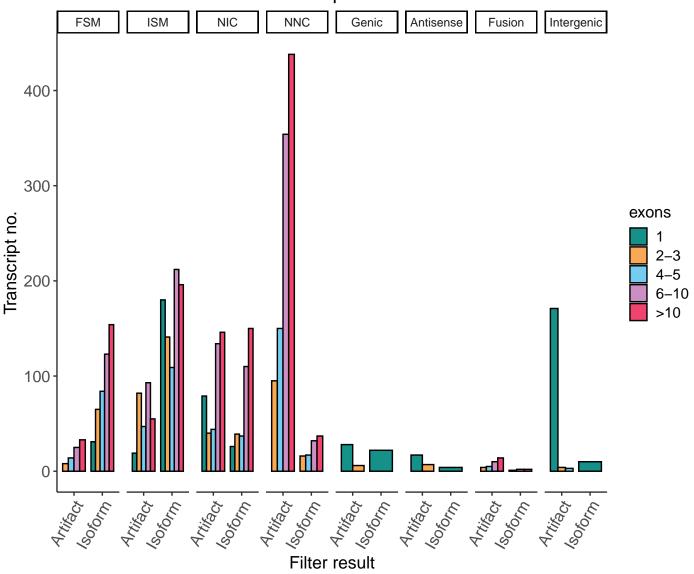
diff_to_gene_TTS - ML importance: 4.46 log(|diff_to_gene_TTS| +1) Filter result Artifact Isoform 0-

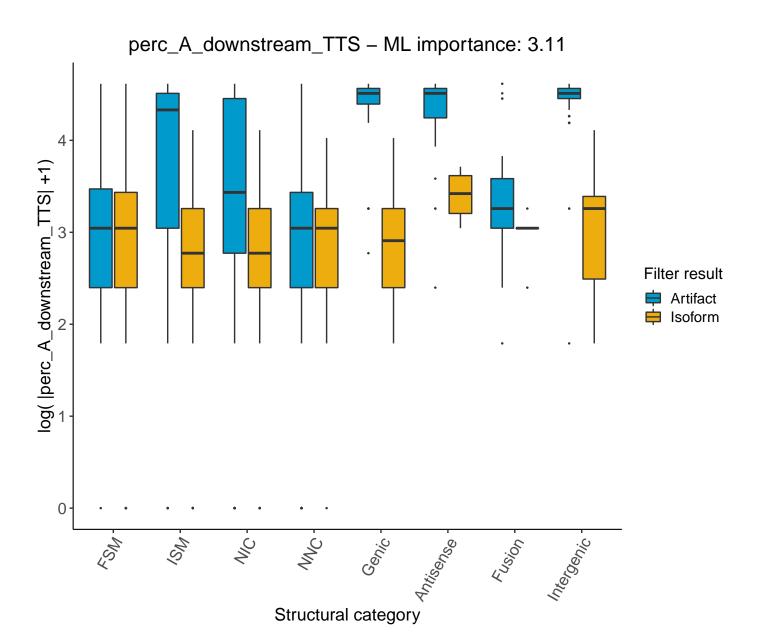
Structural category

length – ML importance: 4.13

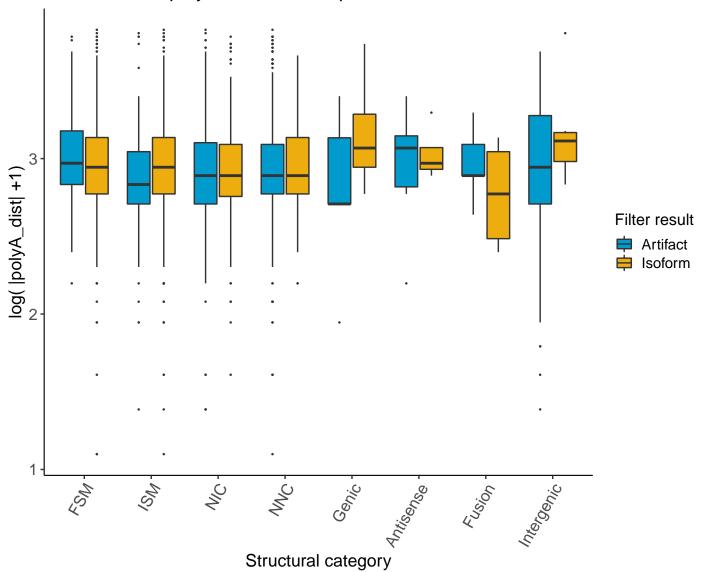


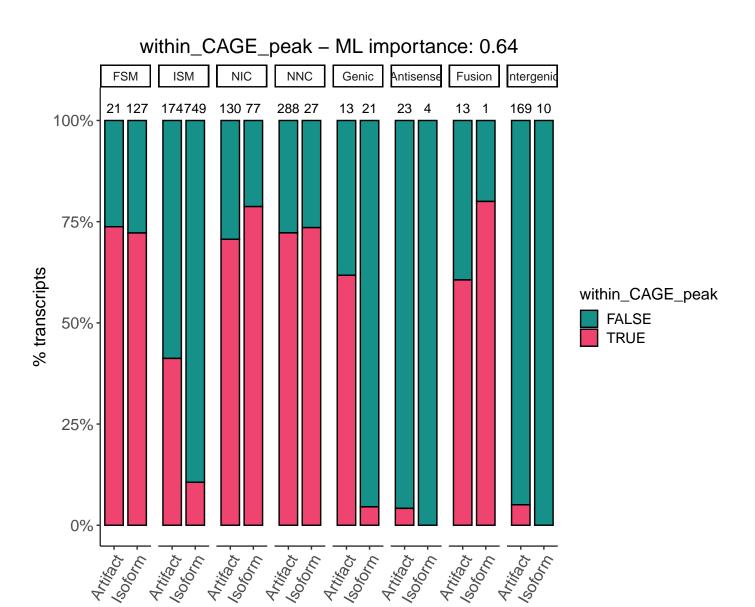




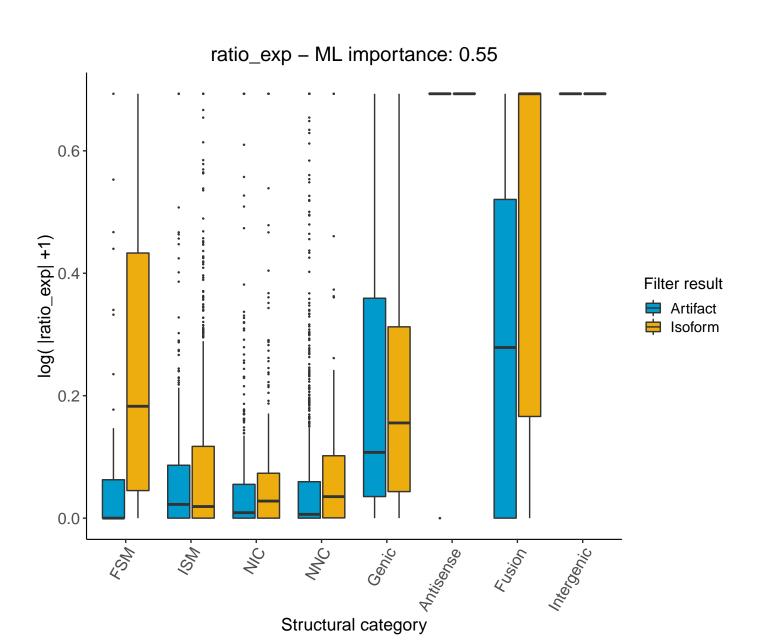


polyA_dist - ML importance: 2.86





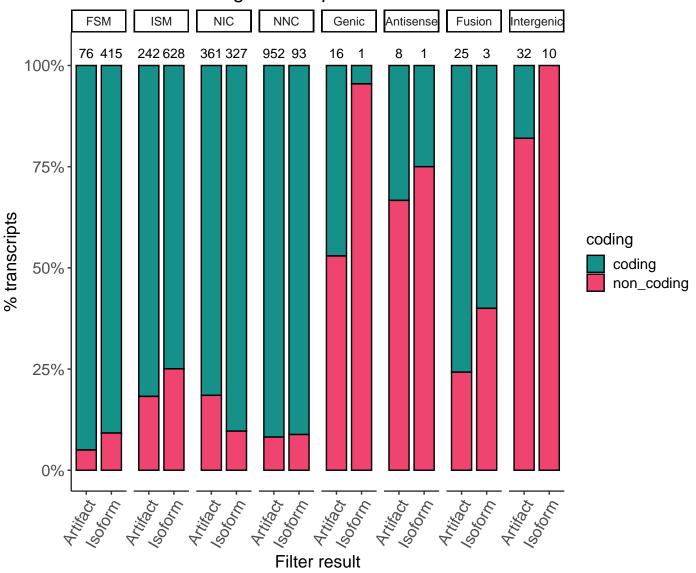
Filter result



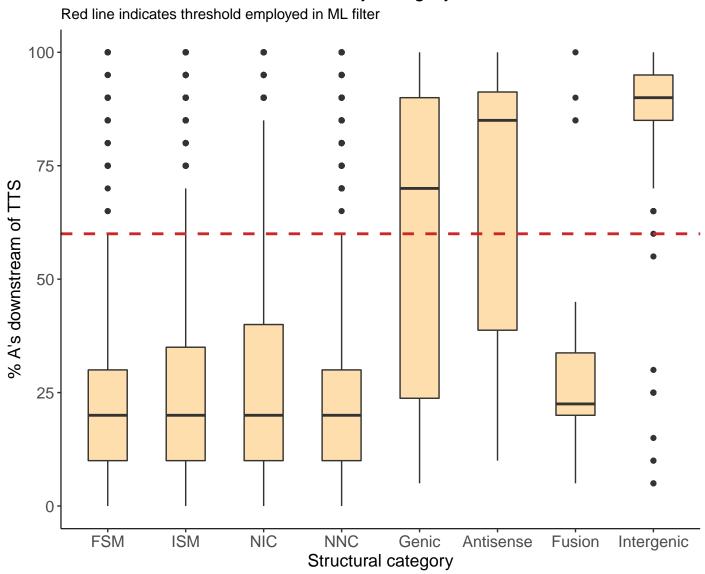
polyA_motif_found - ML importance: 0.46 **FSM** Genic ISM **Fusion** Antisense ntergenic 16 63 165 30 154 4 163 26 154 4 26 2 16 4 5 4 100% 75% % transcripts polyA_motif_found **FALSE** 50% **TRUE** 25% 0%

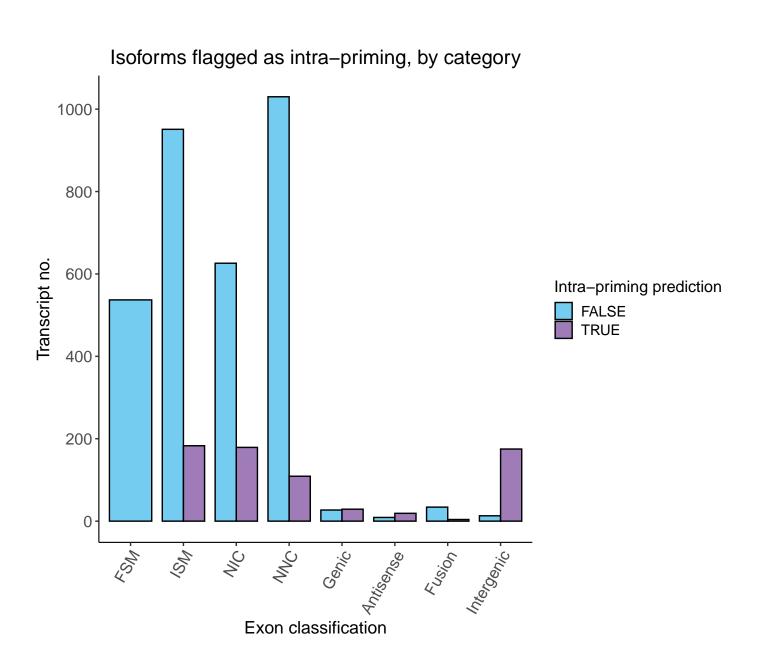
Filter result

coding – ML importance: 0.14



A % by category





Isoforms flagged as intra-priming, by category (%) 100% 75% Transcript % Intra-priming 50% FALSE TRUE 25% 0%-WC-

Exon classification

