SQANTI3 filter report

Total Genes: 650

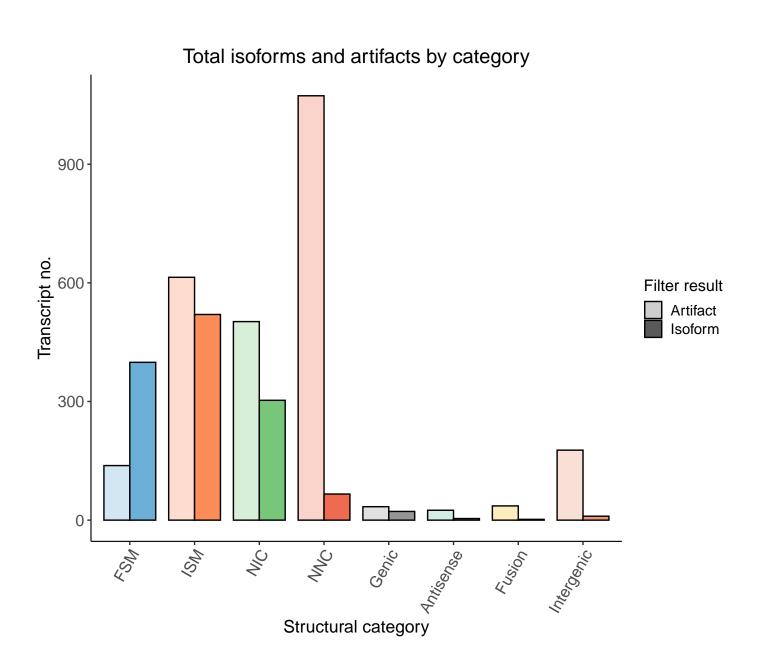
Total Transcripts: 3925

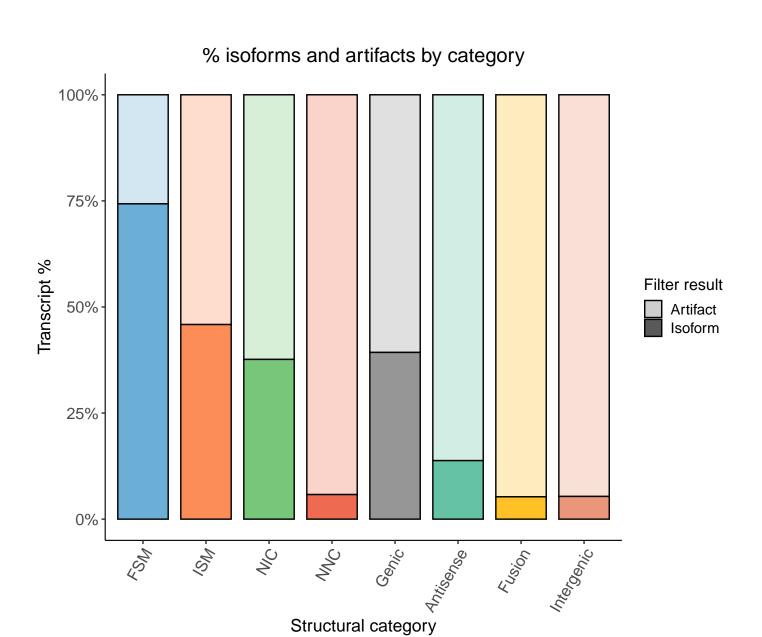
- Isoforms: 1326 (34%)

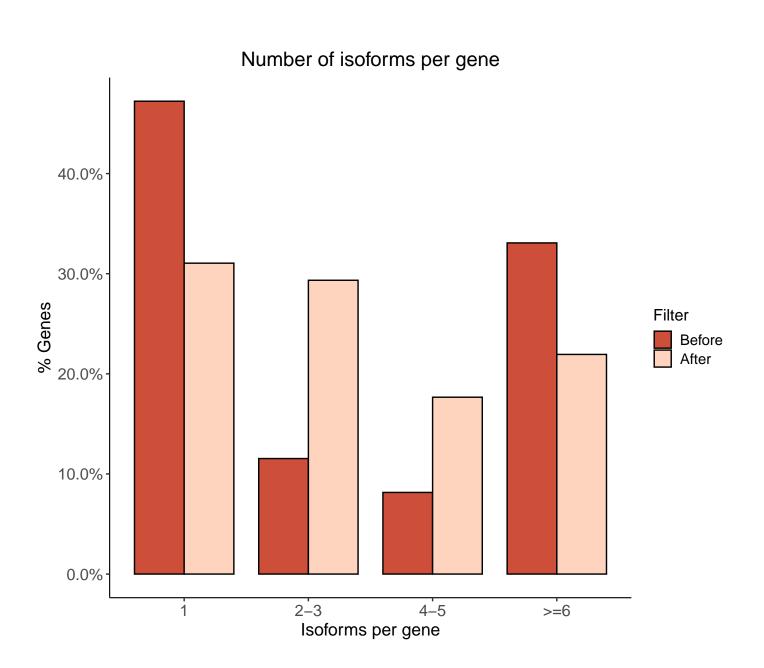
- Artifacts: 2599 (66%)

Gene category	Gene no.	No. of genes with artifacts only
Annotated	437	100
Novel	213	199

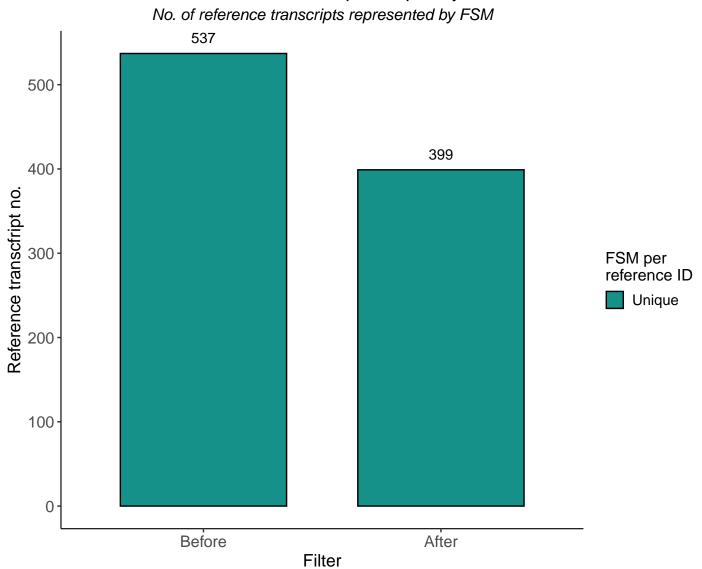
Structural category	Artifact no.	Isoform no.
FSM	138	399
ISM	614	520
NIC	502	303
NNC	1073	66
Genic	34	22
Antisense	25	4
Fusion	36	2
Intergenic	177	10



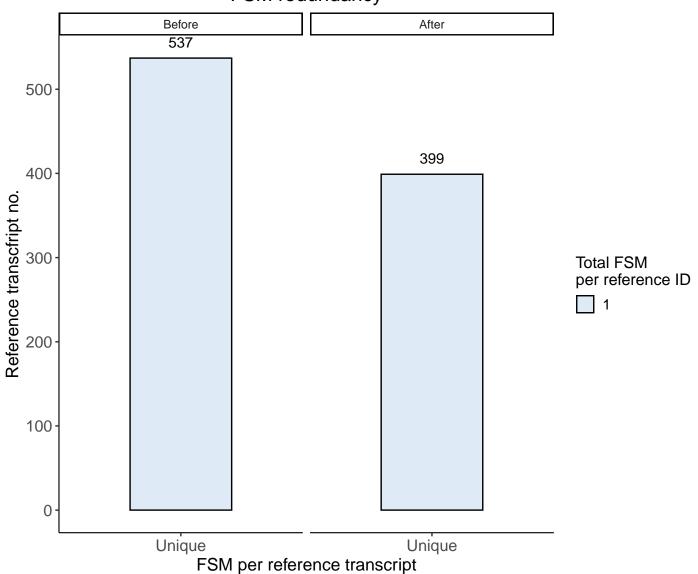




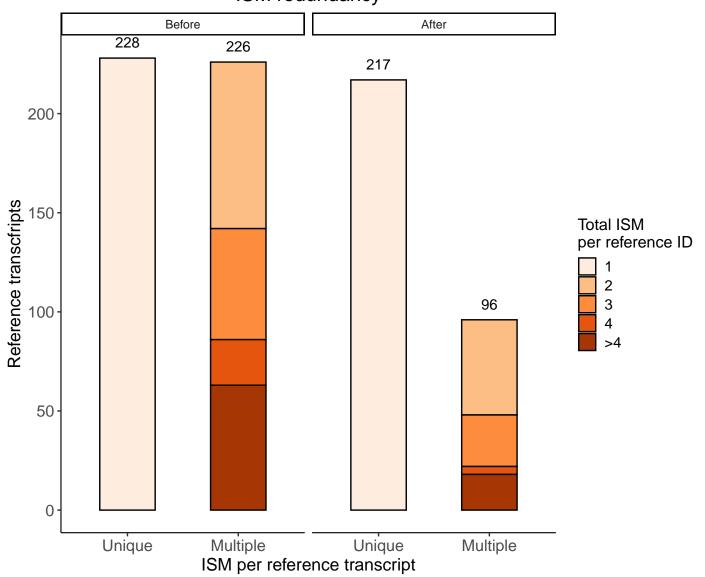
Reference transcript complexity



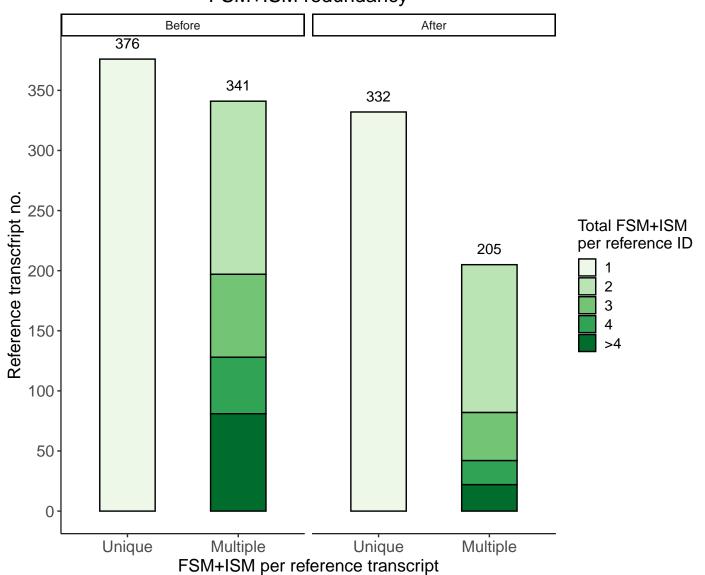
FSM redundancy

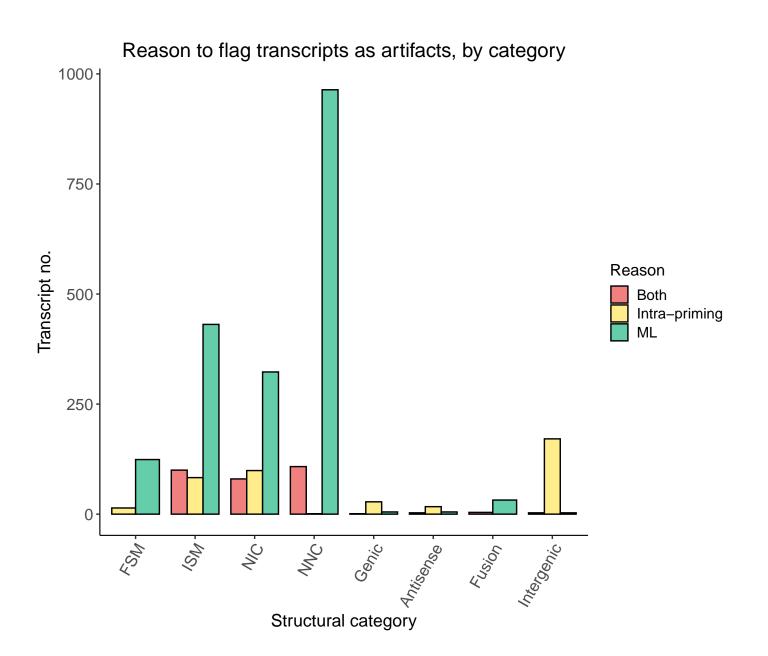


ISM redundancy

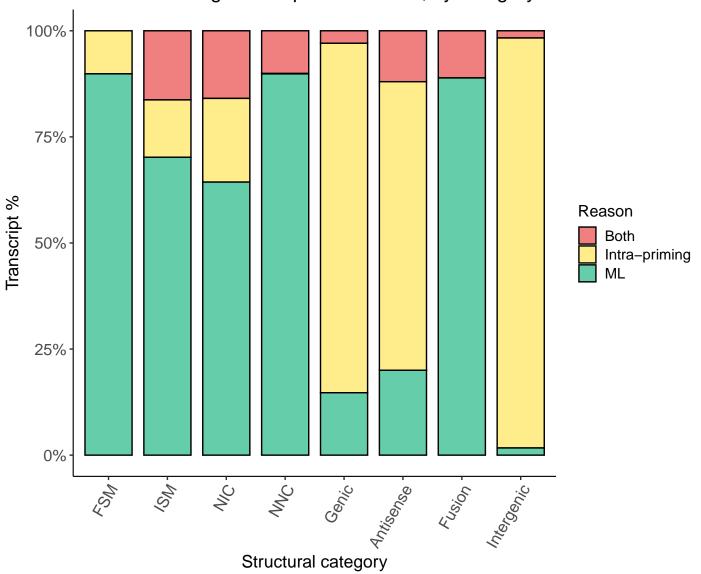


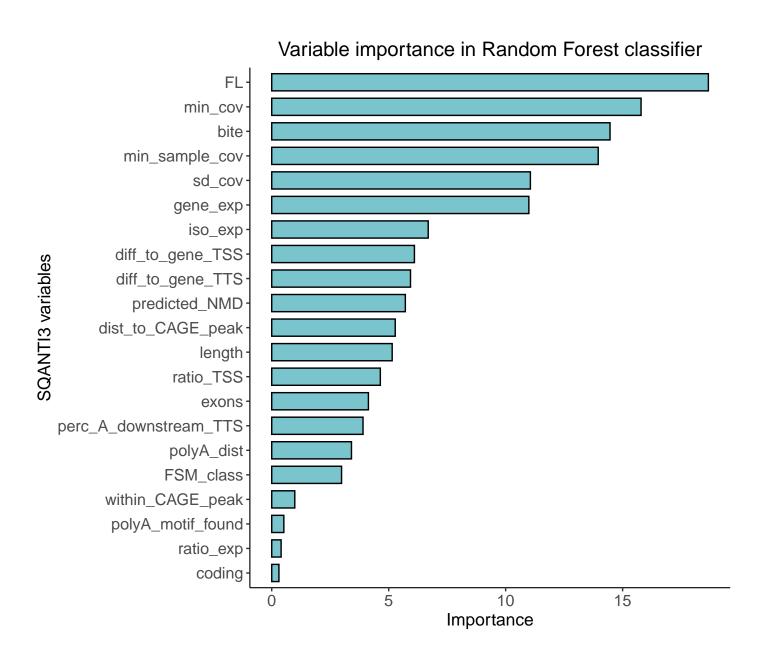
FSM+ISM redundancy



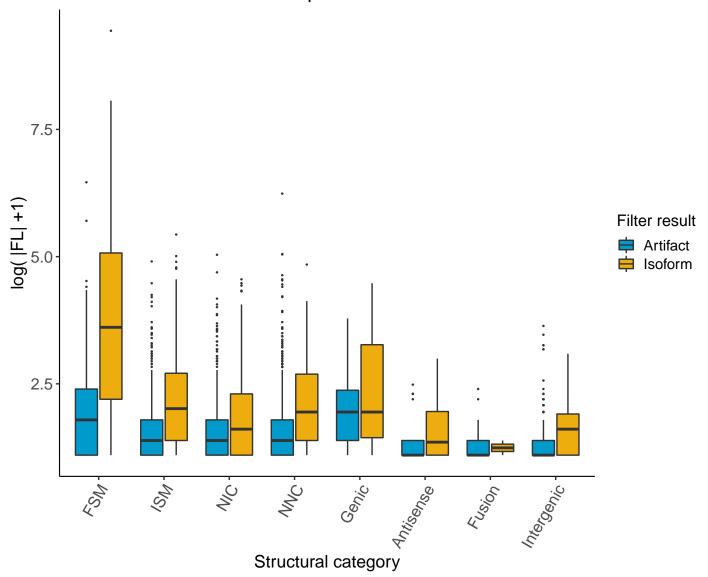


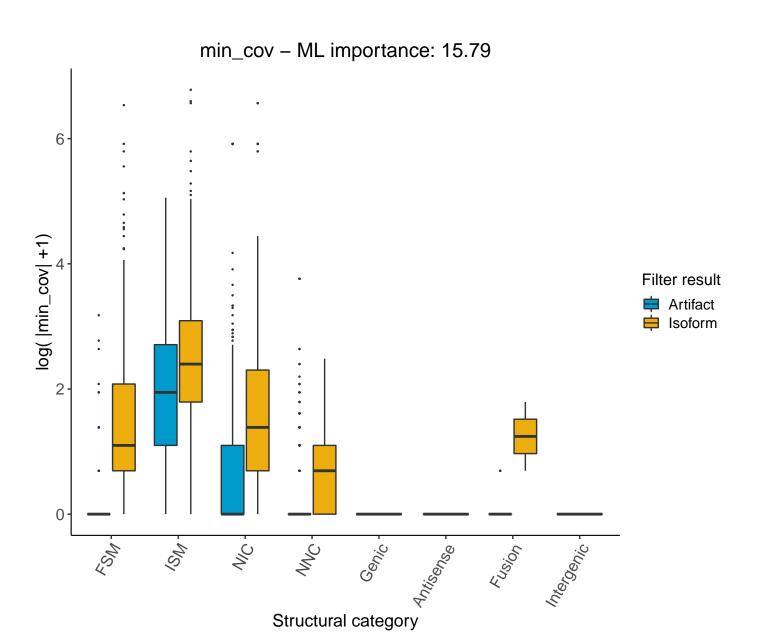
Reason to flag transcripts as artifacts, by category



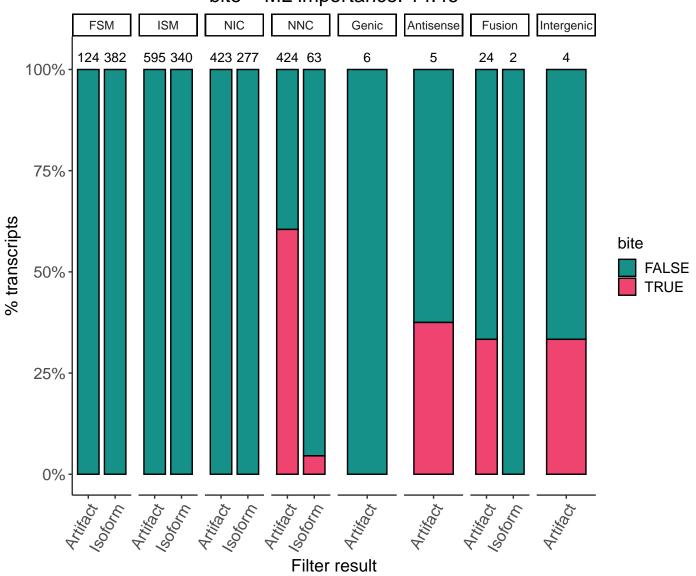


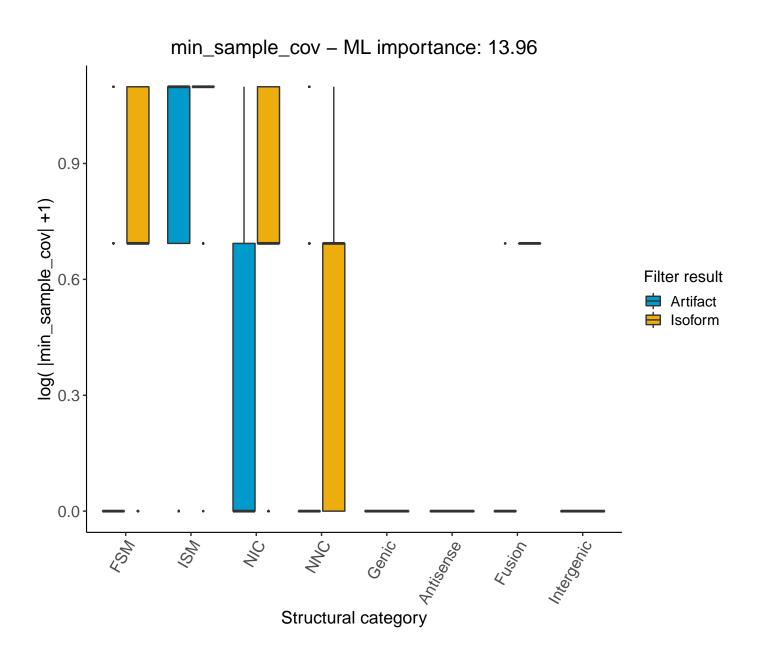
FL – ML importance: 18.67

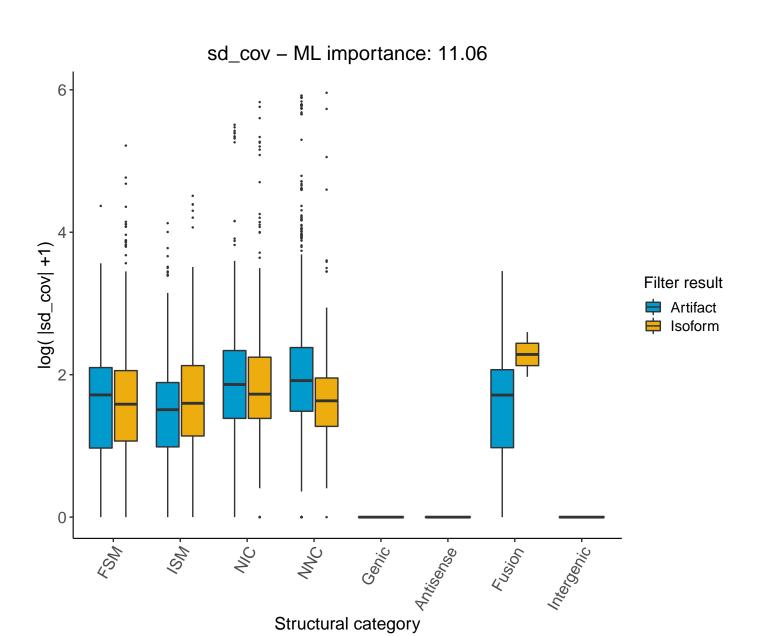




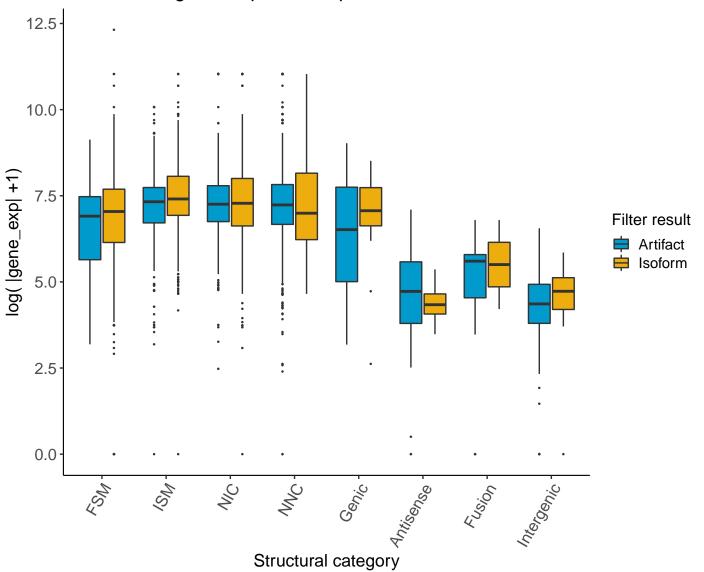
bite - ML importance: 14.46



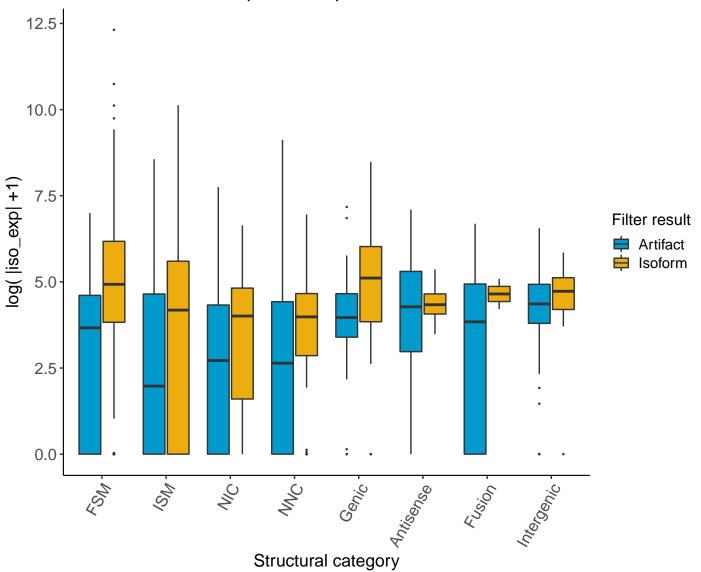




gene_exp - ML importance: 10.99

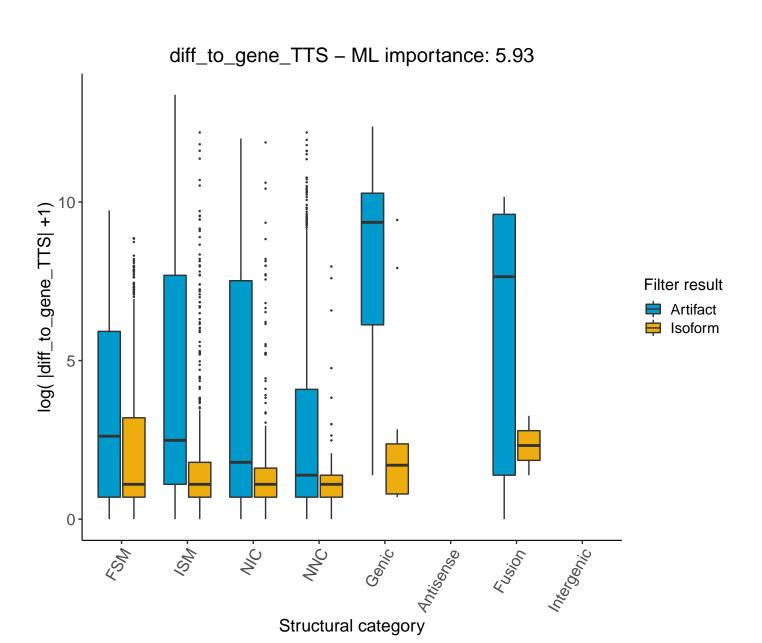


iso_exp - ML importance: 6.69

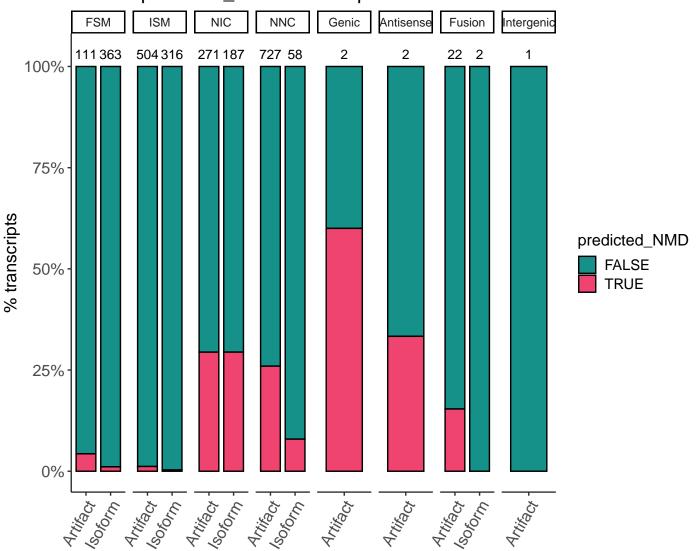


diff_to_gene_TSS - ML importance: 6.1 10log(|diff_to_gene_TSS| +1) Filter result Artifact Isoform 0. Genic -C

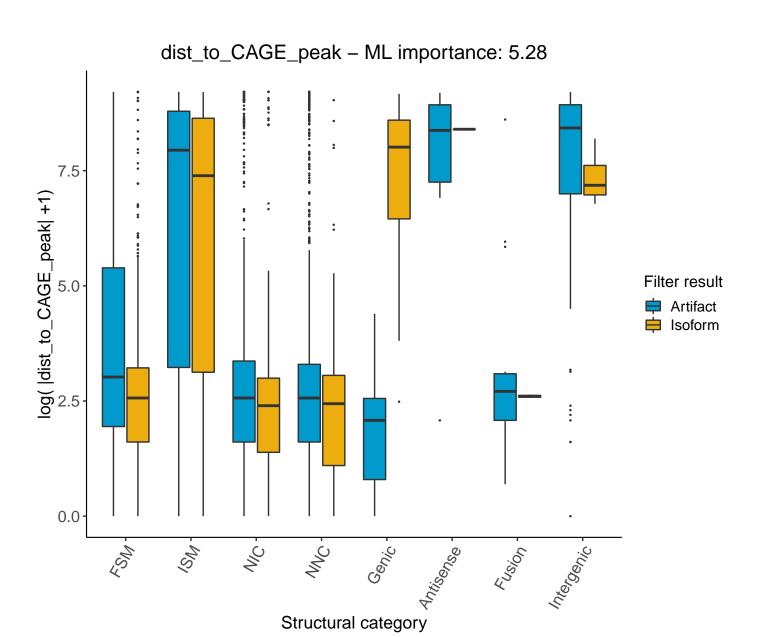
Structural category



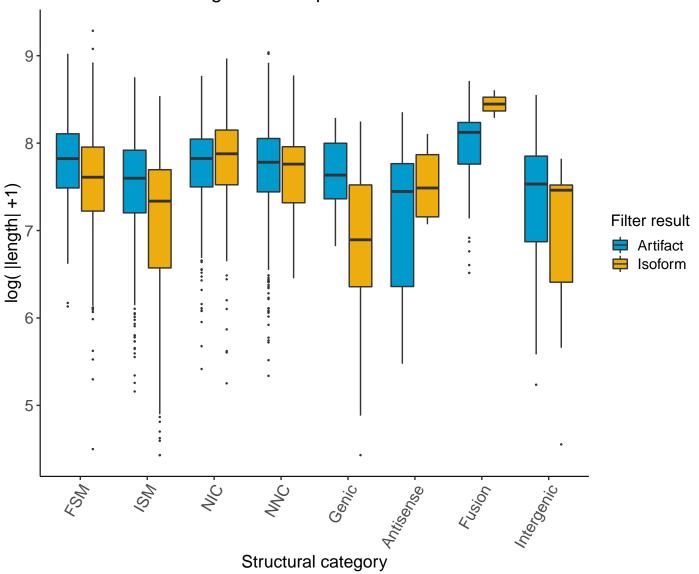
predicted_NMD - ML importance: 5.71

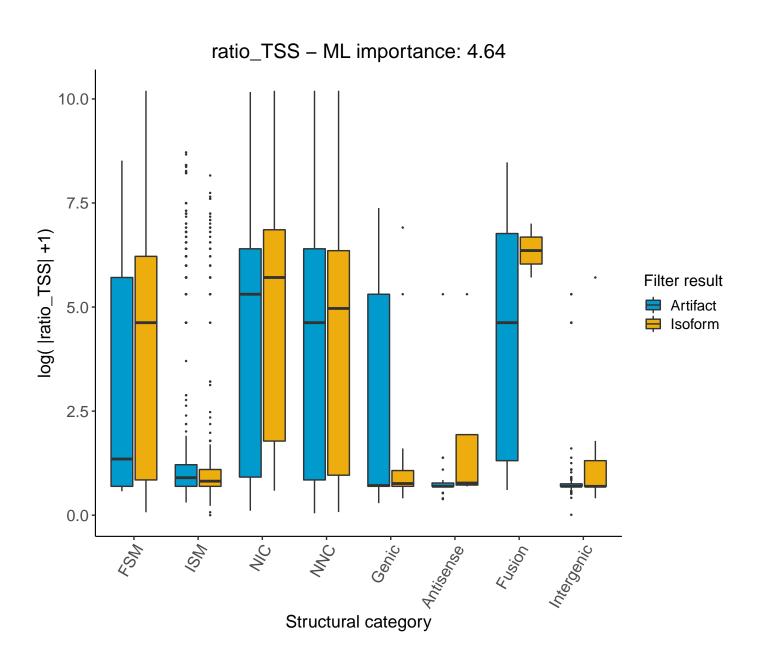


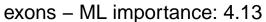
Filter result

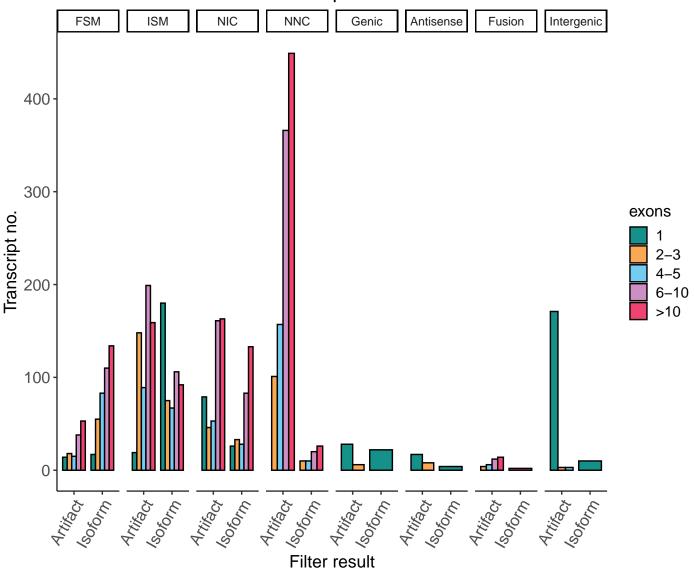


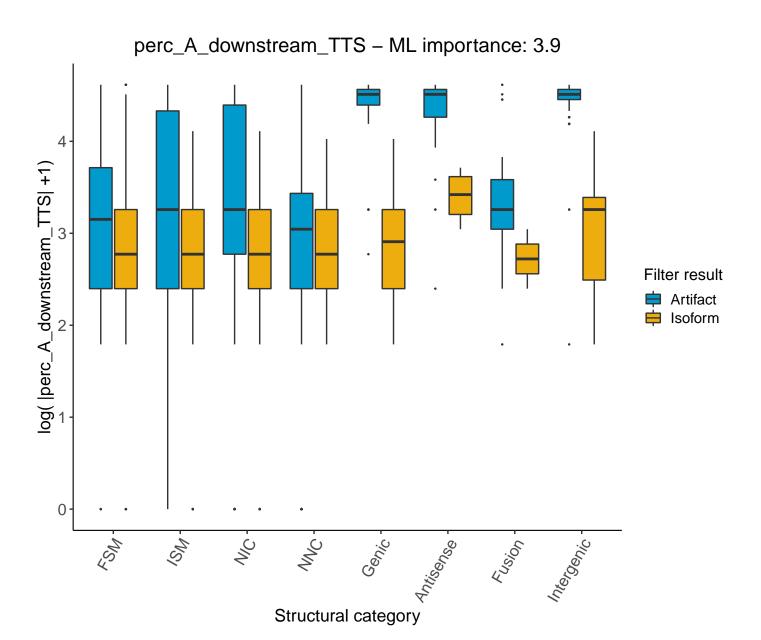
length – ML importance: 5.15



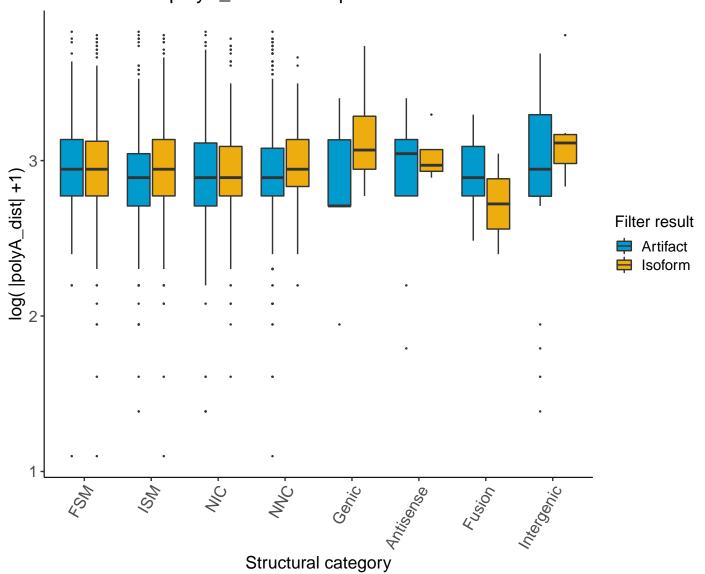




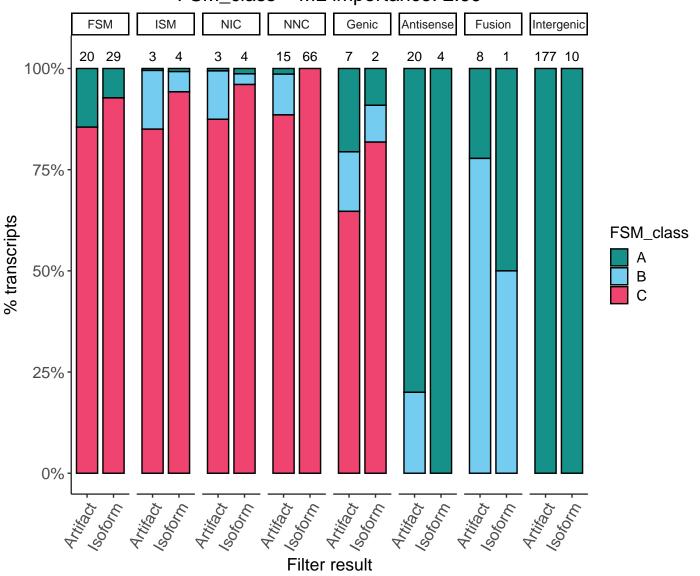




polyA_dist - ML importance: 3.41



FSM_class - ML importance: 2.99



within_CAGE_peak - ML importance: 0.99 **FSM** Fusion Genic Antisense ntergenio 57 91 481442 159 48 304 11 13 21 24 14 2 168 10 4 **FALSE**

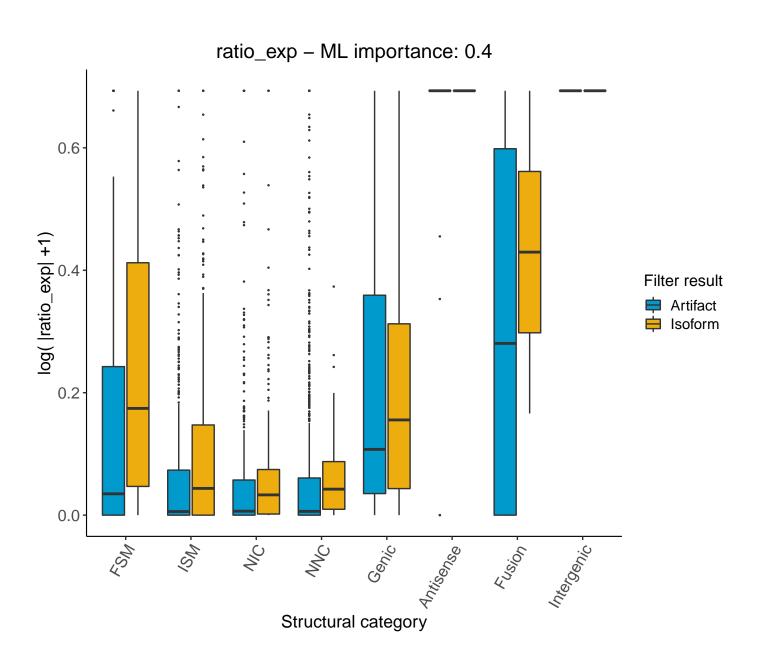
100%

75% % transcripts within_CAGE_peak 50% TRUE 25% 0%

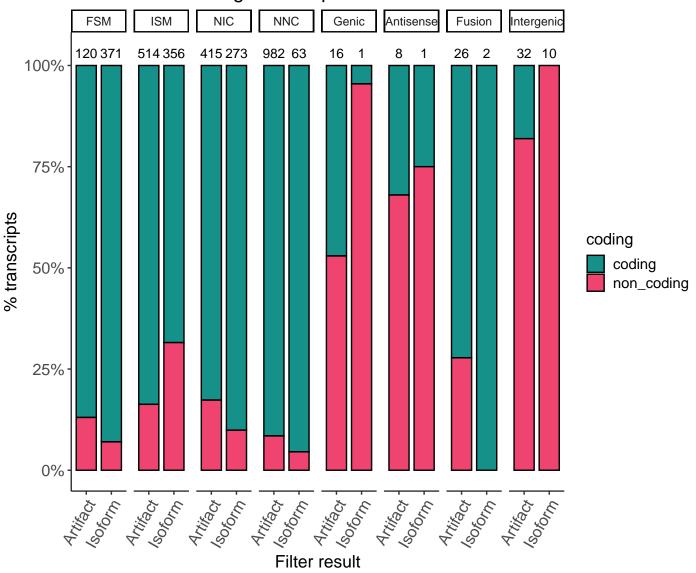
Filter result

polyA_motif_found - ML importance: 0.52 **FSM** Genic **Fusion** Antisense ntergenic 154 4 34 45 178 17 167 22 155 3 26 2 16 4 2 4 100% 75% % transcripts polyA_motif_found **FALSE** 50% **TRUE** 25% 0%

Filter result



coding – ML importance: 0.31



A % by category Red line indicates threshold employed in ML filter 100 75 % A's downstream of TTS 50 25 0 FSM ISM NiC NNC Genic Antisense Fusion Intergenic Structural category

