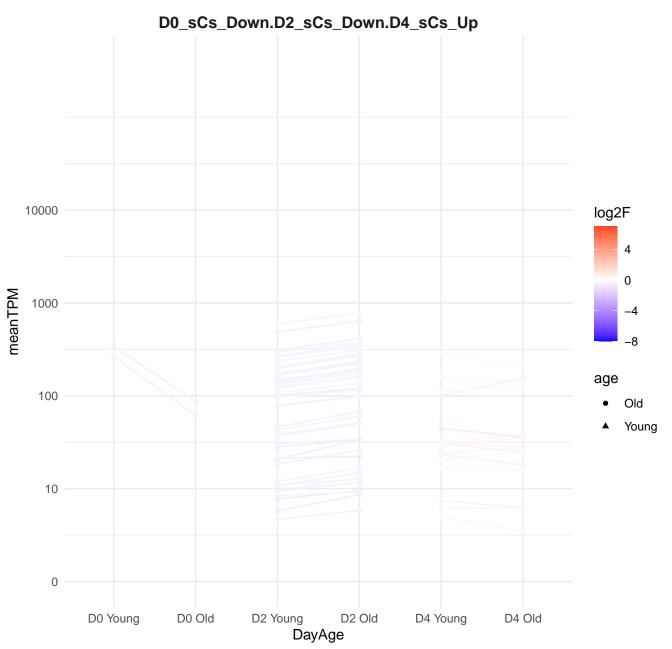
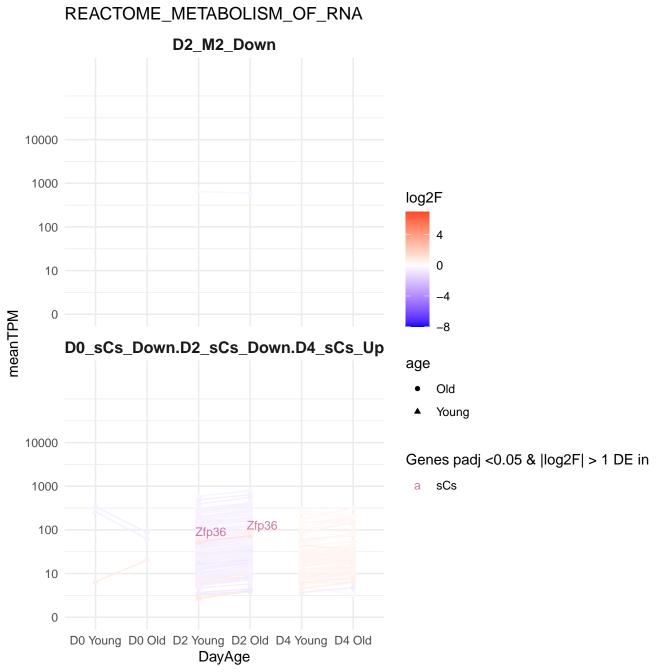
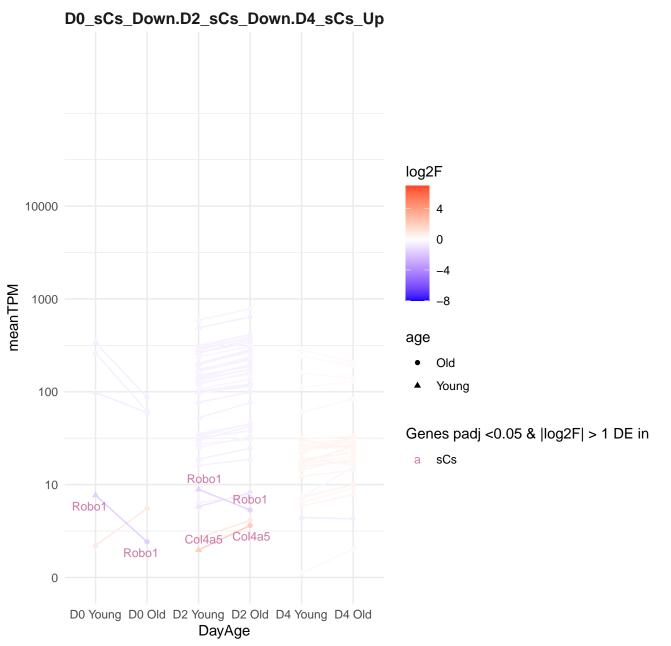
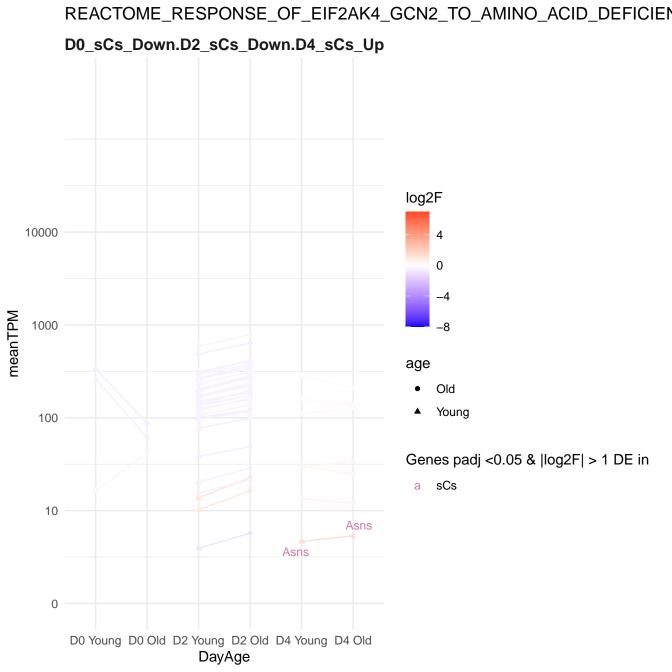
REACTOME_INFLUENZA_INFECTION



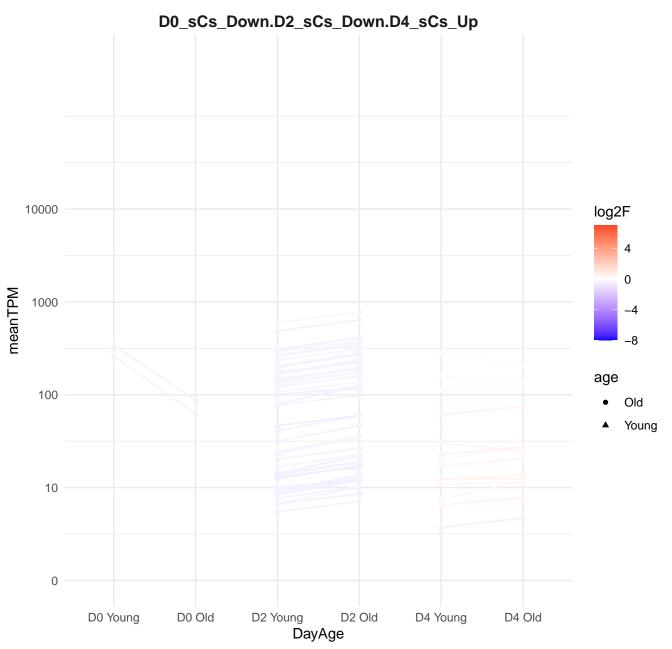


REACTOME_REGULATION_OF_EXPRESSION_OF_SLITS_AND_ROBOS

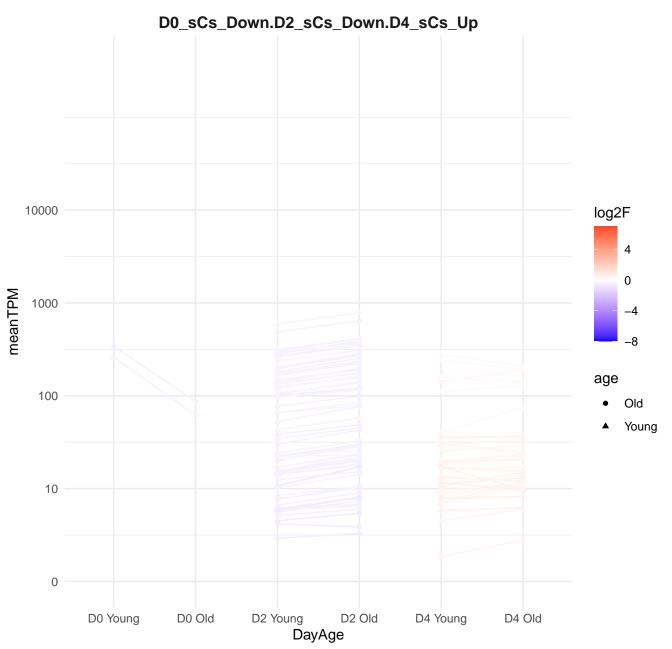




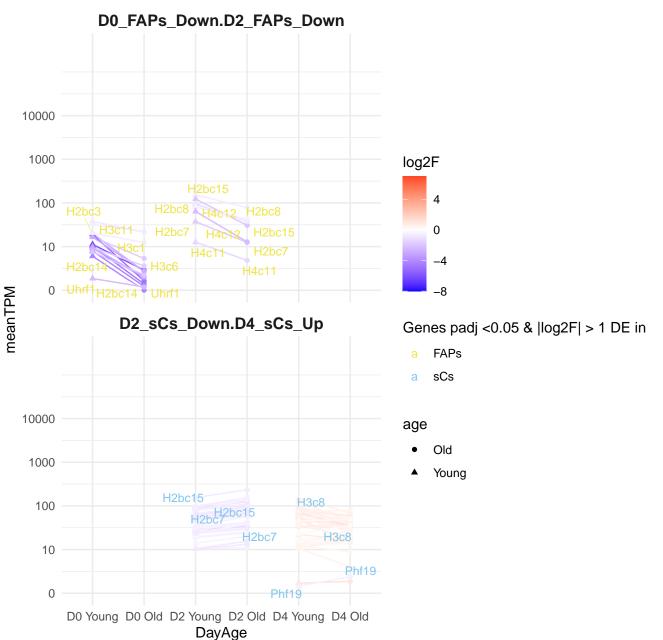
REACTOME_RRNA_PROCESSING

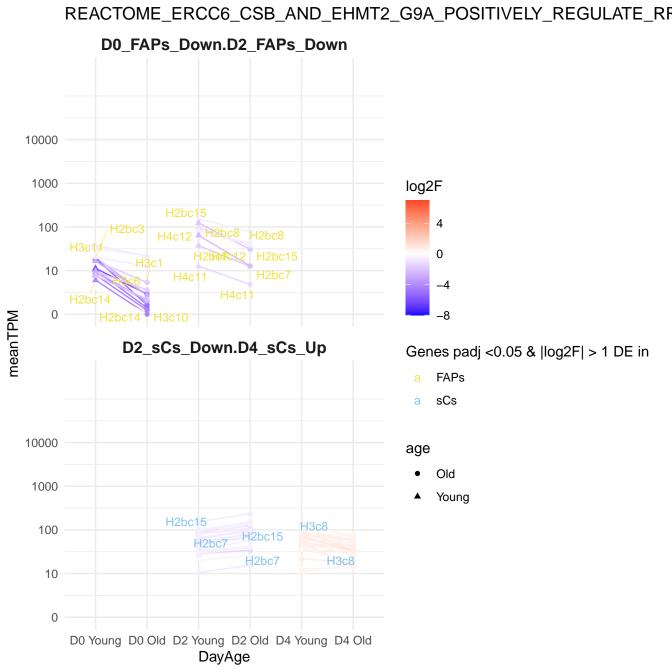


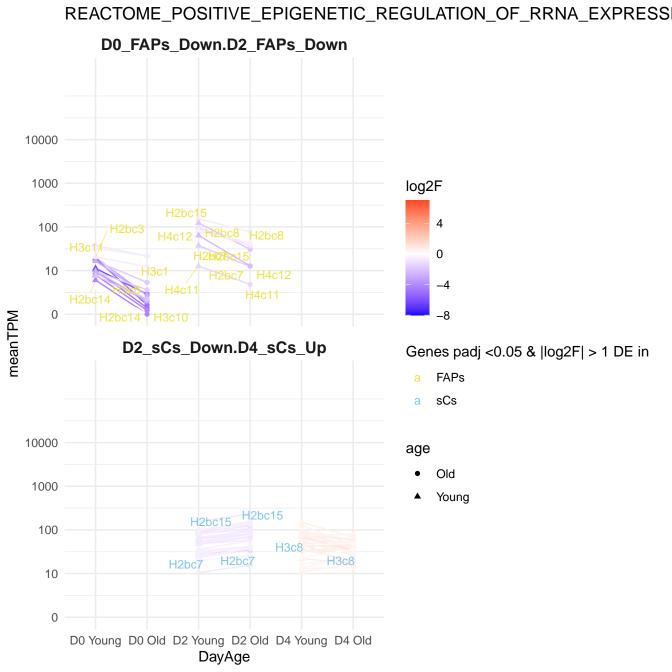
REACTOME_TRANSLATION

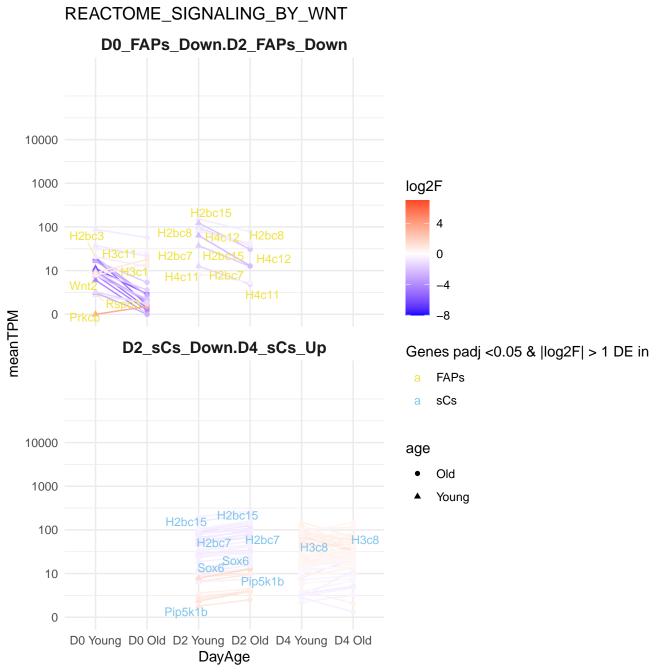


REACTOME_EPIGENETIC_REGULATION_OF_GENE_EXPRESSION

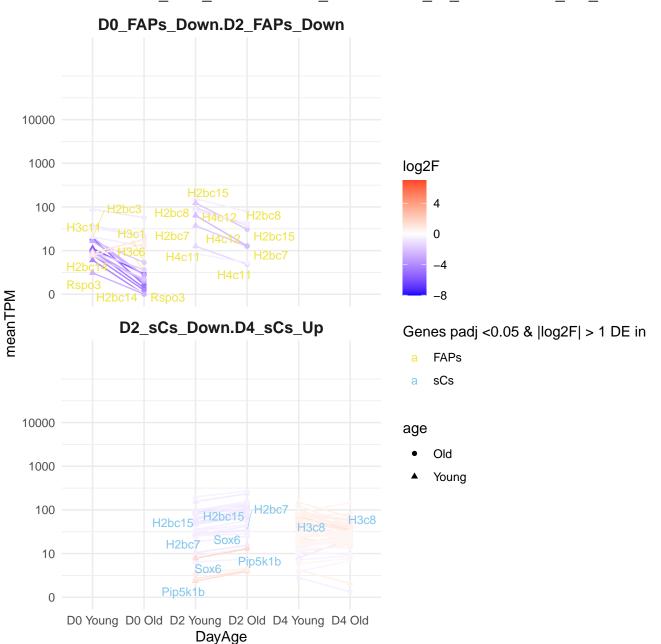






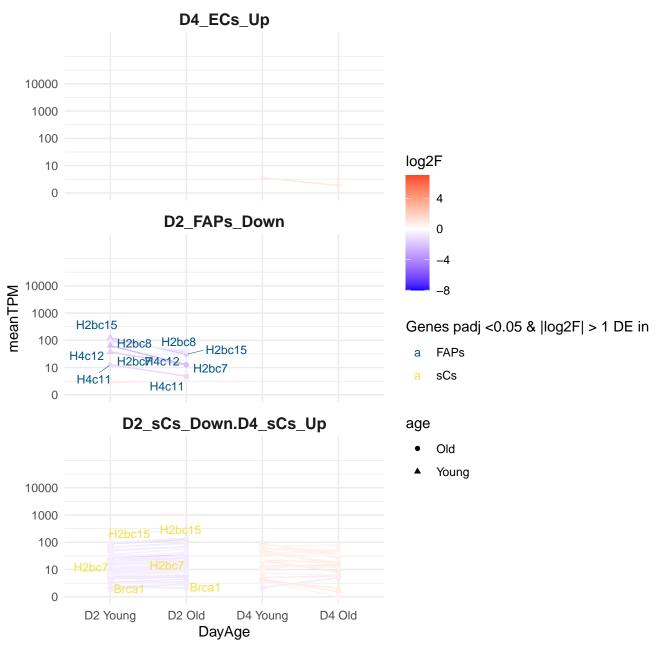


REACTOME_TCF_DEPENDENT_SIGNALING_IN_RESPONSE_TO_WNT



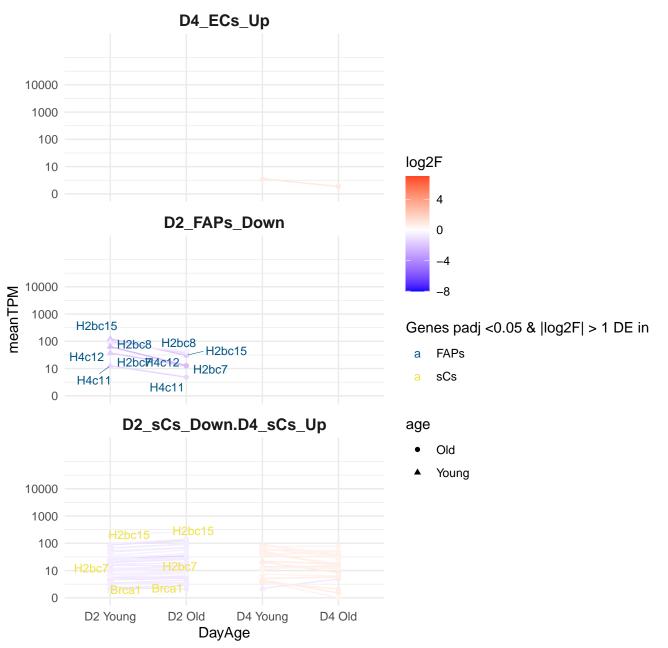
REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOME D4_ECs_Up 10000 1000 100 log2F 10 0 4 D2 FAPs Down 0 -4 10000 meanTPM -8 1000 H2bc15 Genes padj <0.05 & |log2F| > 1 DE in 100 H2bc8 H4c12 H2bc8 **FAPs** а H2bc15 H2bc7 H4c12 sCs H4c11 H2bc7 H4c11 0 D2_sCs_Down.D4_sCs_Up age Old Young 10000 1000 100 10 0 D2 Young D2 Old D4 Young D4 Old DayAge

REACTOME_DNA_DOUBLE_STRAND_BREAK_REPAIR

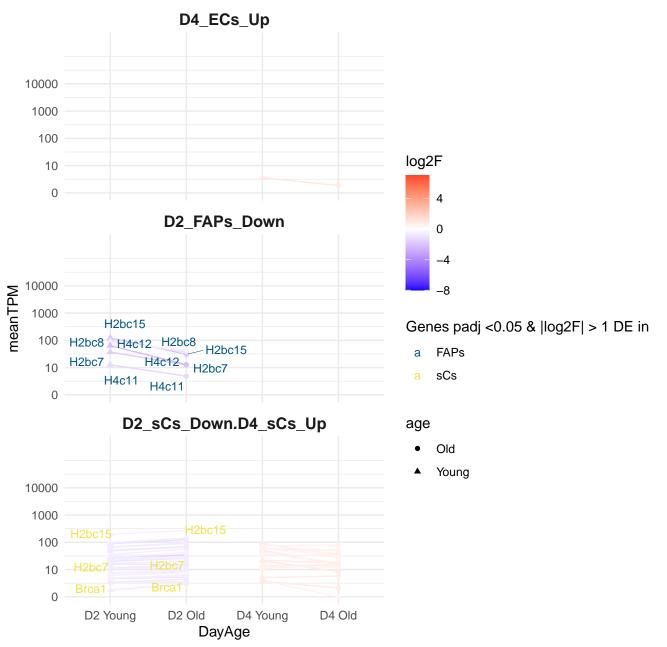


REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT D2_FAPs_Down 10000 1000 log2F H2bc15 4 100 H2bc8 H2bc8 H4c12 H2bcH4c12 H2bc15 0 10 H2bc7 H4c11 -4 H4c11 0 -8 meanTPM D2_sCs_Down.D4_sCs_Up Genes padj <0.05 & |log2F| > 1 DE in **FAPs** а sCs 10000 age Old 1000 Young 100 10 0 D2 Young D2 Old D4 Young D4 Old DayAge

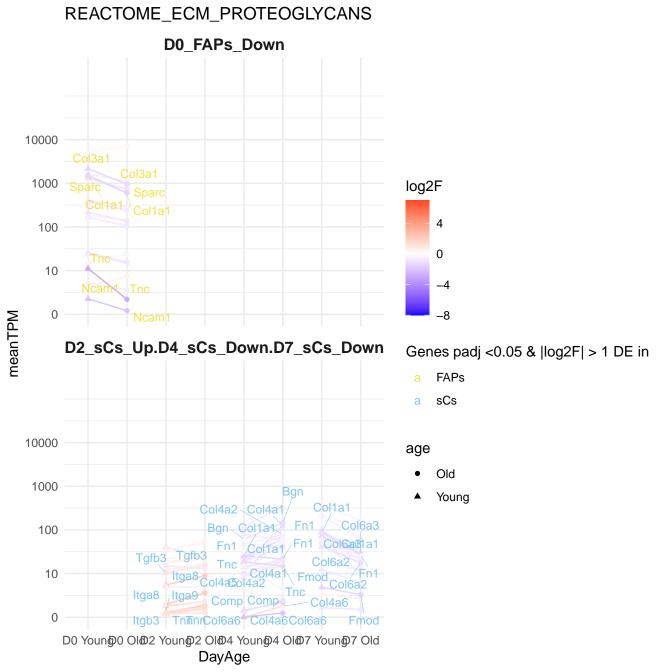
REACTOME_HOMOLOGY_DIRECTED_REPAIR



REACTOME_PROCESSING_OF_DNA_DOUBLE_STRAND_BREAK_ENDS



REACTOME_COLLAGEN_DEGRADATION D0 FAPs Down 10000 1000 log2F 4 100 0 10 -4 0 -8 meanTPM D2_sCs_Up.D4_sCs_Down.D7_sCs_Down Genes padj <0.05 & |log2F| > 1 DE in **FAPs** sCs a 10000 age Old 1000 Young Col4a1 Col1a1 Col1a1 Mmp19 100 Col15a1 Col6a3 Col1a1 Col4a1 Col6a3 10 Col6a2 Col6a2 Col26a1 Col13a1 Col2ab 3a014a6 Col6al6a6 Col14a1 DO Youn DO Old 2 Youn D2 Old 4 Youn D4 Old 7 Youn D7 Old DayAge



REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS D0_FAPs_Down 10000 1000 log2F 4 100 0 10 -4 -8 meanTPM D2_sCs_Up.D4_sCs_Down.D7_sCs_Down Genes padj <0.05 & |log2F| > 1 DE in **FAPs** sCs а 10000 age Old 1000 Col4a1 Young Col1a1 Col4a2 Thbs1 Fn1 Col1a1 100 Col1a1 Itgb8 10 Itga8 Comp Comp Col4a6 0 Itga9Col6a6 Col4a6 Col6a6 Itgb3 DO Youn DO Old 2 Youn D2 Old 4 Youn D4 Old 7 Youn D7 Old DayAge

REACTOME_AMYLOID_FIBER_FORMATION D2_FAPs_Down 10000 1000 log2F 4 100 H4c12 H2bc8 0 H2bt7c12 H2bc15 10 -4 0 -8 meanTPM D0_sCs_Down.D2_sCs_Down.D4_sCs_Up Genes padj <0.05 & |log2F| > 1 DE in **FAPs** sCs a 10000 age Old 1000 Young H2bc15 H3c11 H2bc15 100 H2bc7 H3c8 H2bc7 H3c8 Apoe 10 Apoe H2bc3 Sorl1 H3c11 0 Sorl1 D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old DayAge

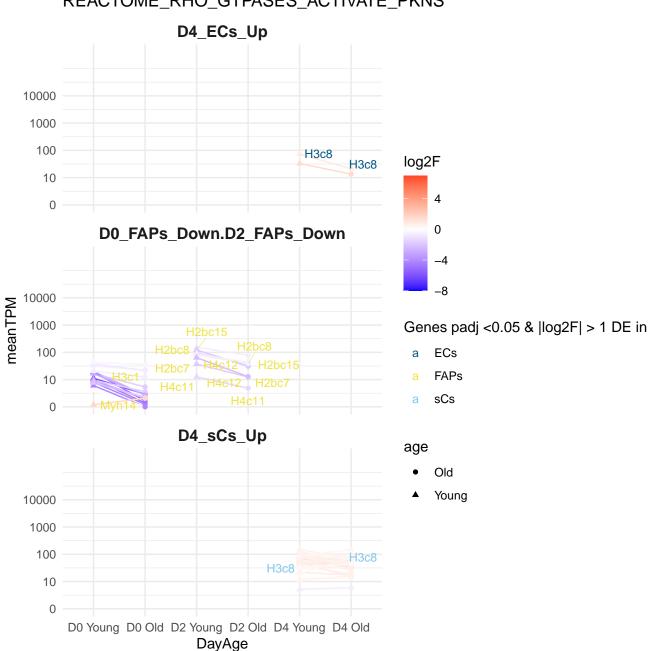
REACTOME_HDMS_DEMETHYLATE_HISTONES D2_FAPs_Down 10000 1000 log2F 4 100 0 10 -4 meanTPM 0 -8 D0_sCs_Down.D2_sCs_Down.D4_sCs_Up Genes padj <0.05 & |log2F| > 1 DE in **FAPs** sCs a 10000 age Old 1000 Young H3c11 100 H3c8 10 H3c11 0 D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old DayAge

REACTOME_PRE_NOTCH_EXPRESSION_AND_PROCESSING D2 FAPs Down 10000 1000 log2F 4 100 H2bc8 H4c12 0 10 -4 0 -8 meanTPM D0_sCs_Down.D2_sCs_Down.D4_sCs_Up Genes padj <0.05 & |log2F| > 1 DE in **FAPs** sCs a 10000 age Old 1000 Young H2bc15 H3c11 H2bc15 100 H2bc7 H3c8 H2bc7 Ccnd1 10 Ccnd1 H2bc3 H3c11 0 D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old DayAge

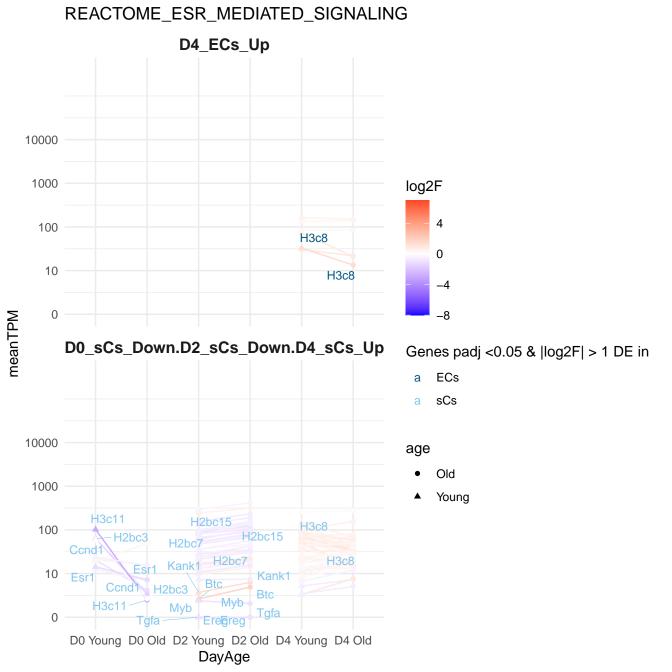
REACTOME_DNA_REPLICATION D4_ECs_Up 10000 1000 log2F 100 4 0 10 -4 meanTPM 0 -8 D2_sCs_Down.D4_sCs_Up age Old Young 10000 Genes padj <0.05 & |log2F| > 1 DE in 1000 а sCs 100 10 Ccne1 Ccne1 0 D2 Young D2 Old D4 Young D4 Old DayAge

REACTOME_S_PHASE D4_ECs_Up 10000 1000 log2F 100 4 0 10 -4 meanTPM 0 -8 D2_sCs_Down.D4_sCs_Up age Old Young 10000 Genes padj <0.05 & |log2F| > 1 DE in 1000 а sCs 100 Ccne1 Ccne1 10 Esco2 Esco2 0 D2 Young D2 Old D4 Young D4 Old DayAge

REACTOME_RHO_GTPASES_ACTIVATE_PKNS



REACTOME_CELLULAR_RESPONSE_TO_STARVATION D2_Neutro_Up 10000 1000 log2F 4 100 Atp6v0d2 0 10 -4 Atp6v0d2 meanTPM 0 -8 D0_sCs_Down.D2_sCs_Down.D4_sCs_Up age Old Young 10000 Genes padj <0.05 & |log2F| > 1 DE in Neutro а 1000 sCs 100 10 Asns 0 D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old DayAge



${\sf REACTOME_SELENOAMINO_ACID_METABOLISM}$

