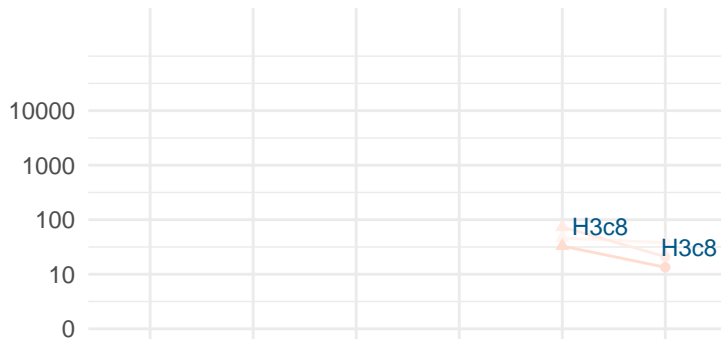


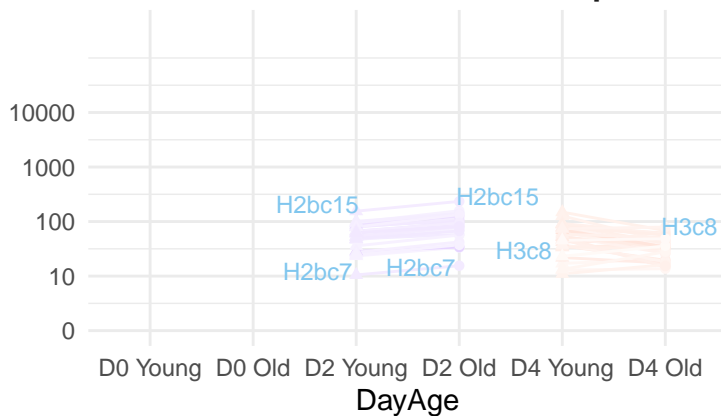
D4_EC_s_Up



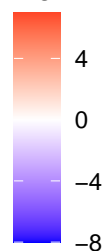
D0_FAP_s_Down.D2_FAP_s_Down



D2_sCs_Down.D4_sCs_Up



log₂F



Genes padj < 0.05 & |log₂F| > 1 DE in

a ECs

a FAPs

a sCs

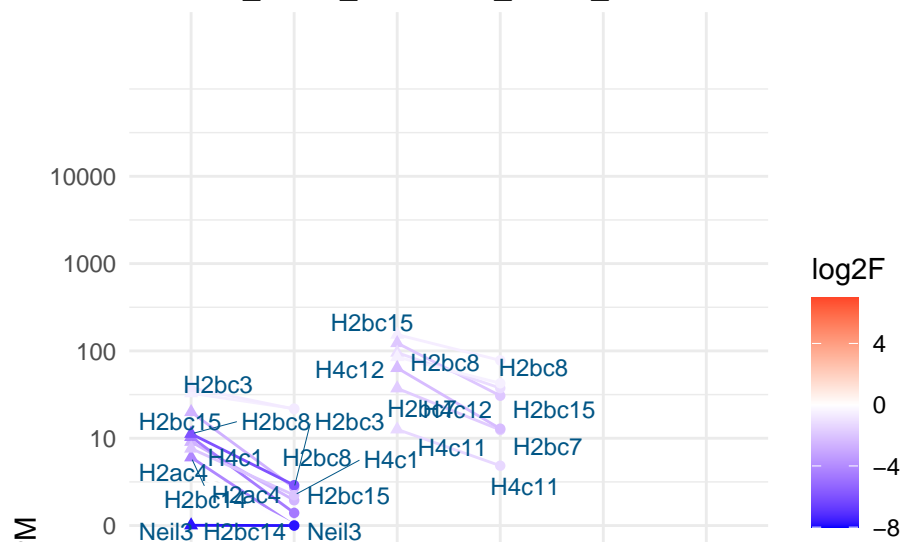
age

● Old

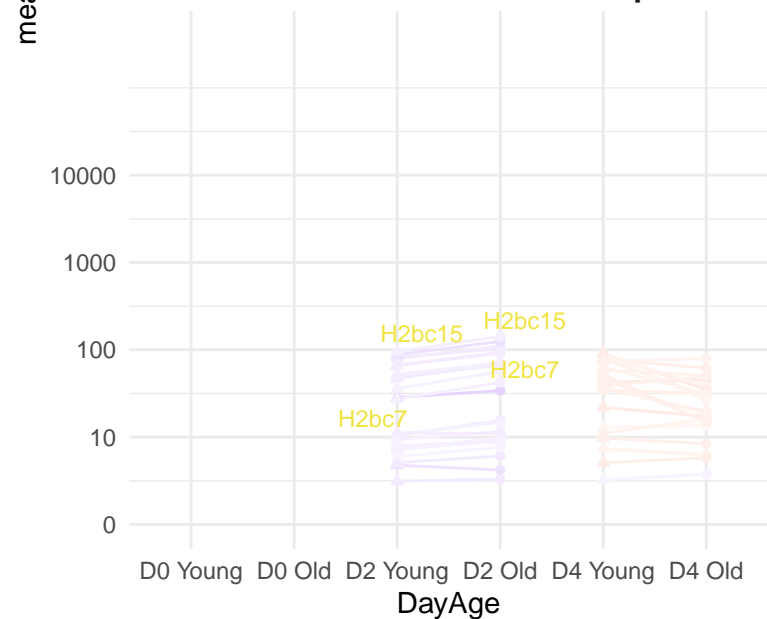
▲ Young

REACTOME_BASE_EXCISION_REPAIR

D0_FAPs_Down.D2_FAPs_Down



D2_sCs_Down.D4_sCs_Up



Genes $p_{adj} < 0.05$ & $|\log_2 F| > 1$ DE in

a FAPs

a sCs

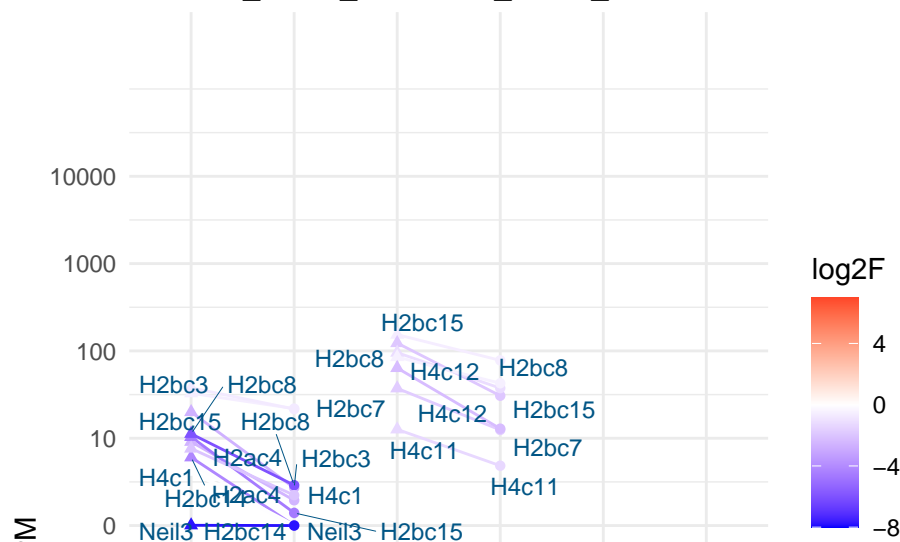
age

- Old

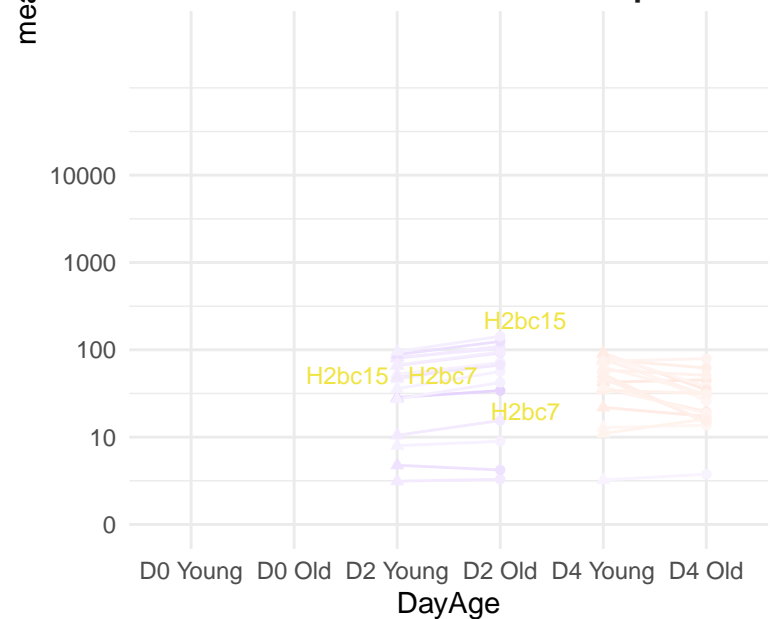
▲ Young

REACTOME_BASE_EXCISION_REPAIR_AP_SITE_FORMATION

D0_FAPs_Down.D2_FAPs_Down



D2_sCs_Down.D4_sCs_Up



Genes padj <0.05 & |log2F| > 1 DE in

a FAPs

a sCs

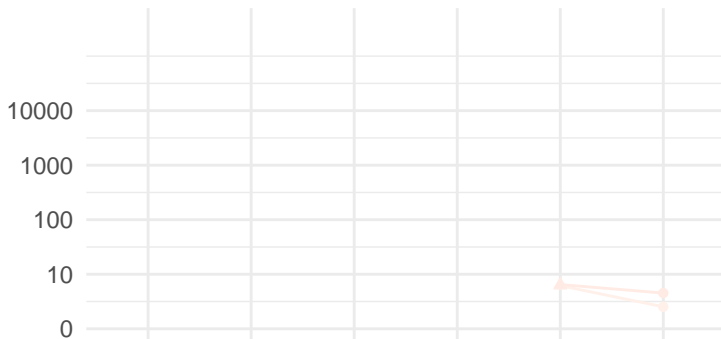
age

• Old

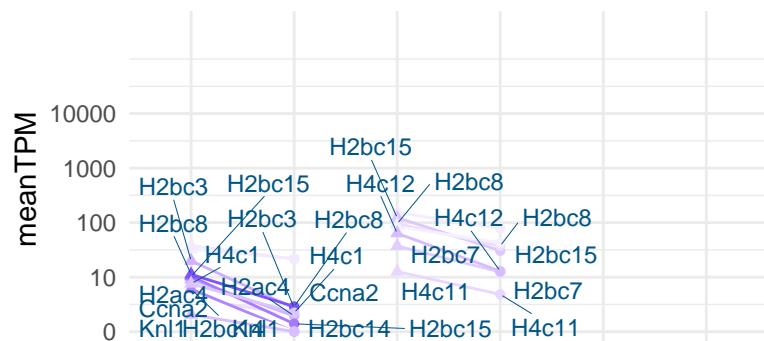
▲ Young

REACTOME_CHROMOSOME_MAINTENANCE

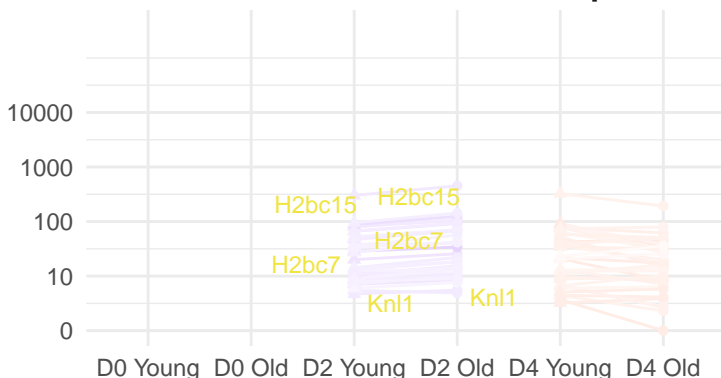
D4_EC_s_Up



D0_FAPs_Down.D2_FAPs_Down



D2_sCs_Down.D4_sCs_Up



log₂F



Genes padj < 0.05 & |log₂F| > 1 DE in

a FAPs

a sCs

age

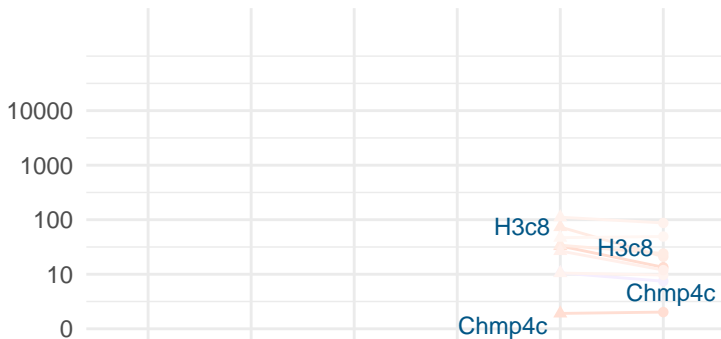
● Old

▲ Young

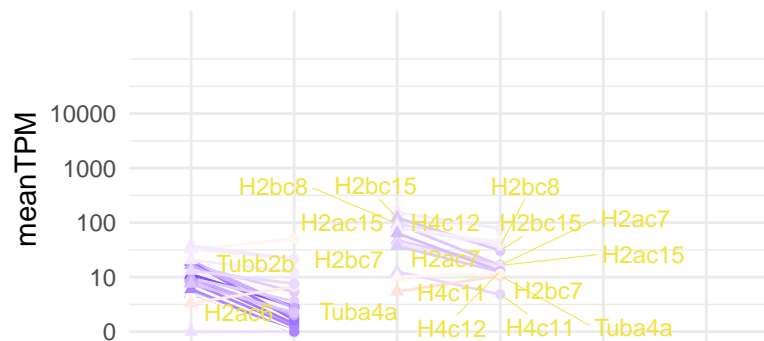
DayAge

REACTOME_HCMV_INFECTION

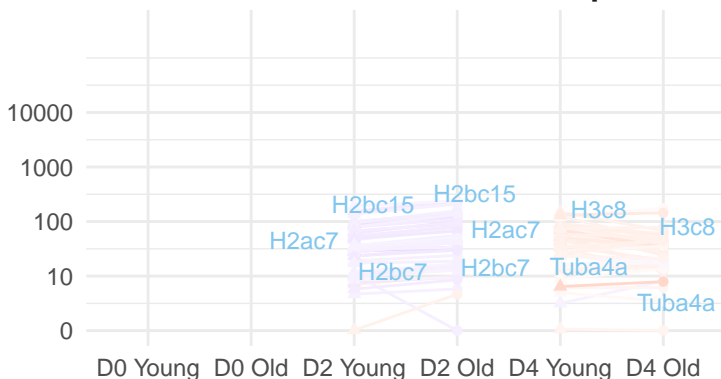
D4_EC_s_Up



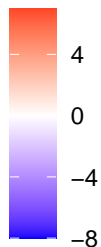
D0_FAP_s_Down.D2_FAP_s_Down



D2_sC_s_Down.D4_sC_s_Up



log2F



Genes padj <0.05 & |log2F| > 1 DE in

a ECs

a FAPs

a sCs

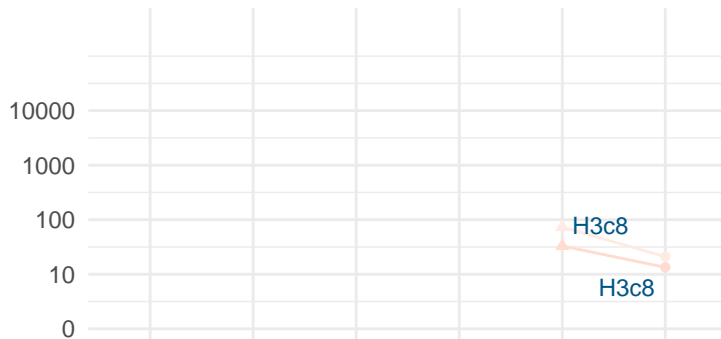
age

● Old

▲ Young

REACTOME_MEIOSIS

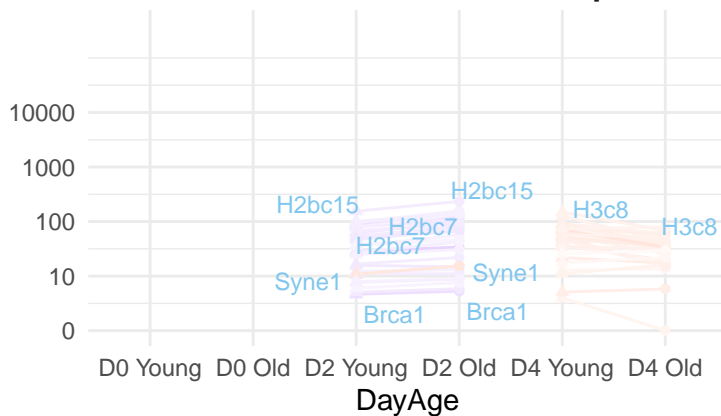
D4_EC_s_Up



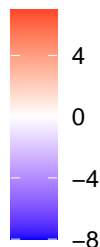
D0_FAP_s_Down.D2_FAP_s_Down



D2_sCs_Down.D4_sCs_Up



log2F



Genes padj < 0.05 & |log2F| > 1 DE in

a EC_s

a FAP_s

a sCs

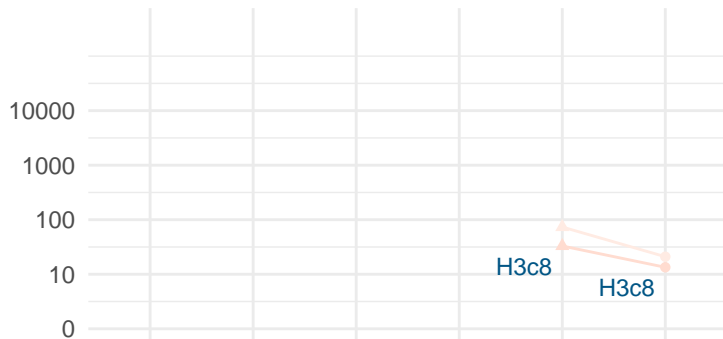
age

● Old

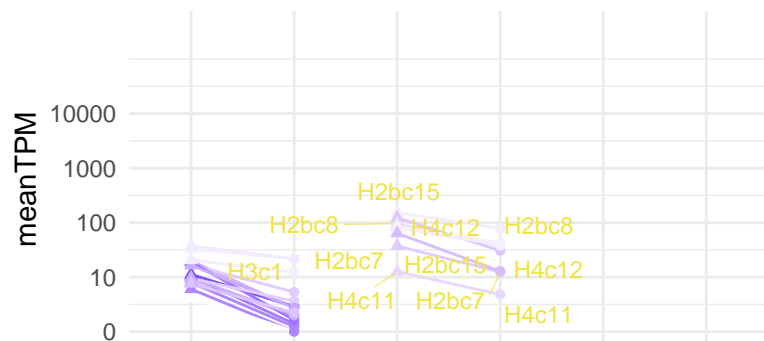
▲ Young

REACTOME_MEIOTIC_RECOMBINATION

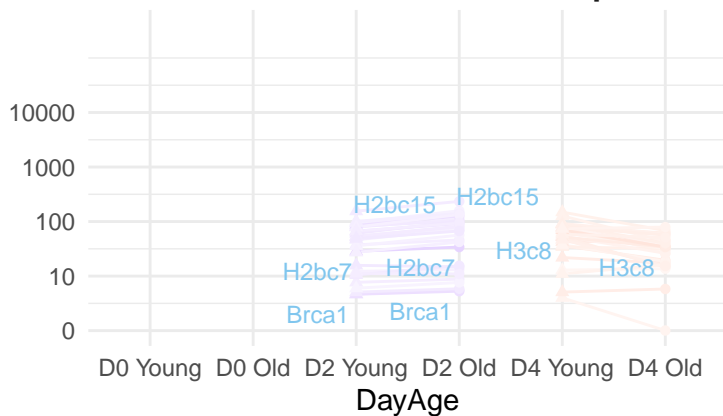
D4_EC_s_Up



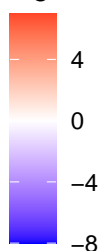
D0_FAP_s_Down.D2_FAP_s_Down



D2_sCs_Down.D4_sCs_Up



log₂F



Genes padj <0.05 & |log₂F| > 1 DE in

a ECs

a FAPs

a sCs

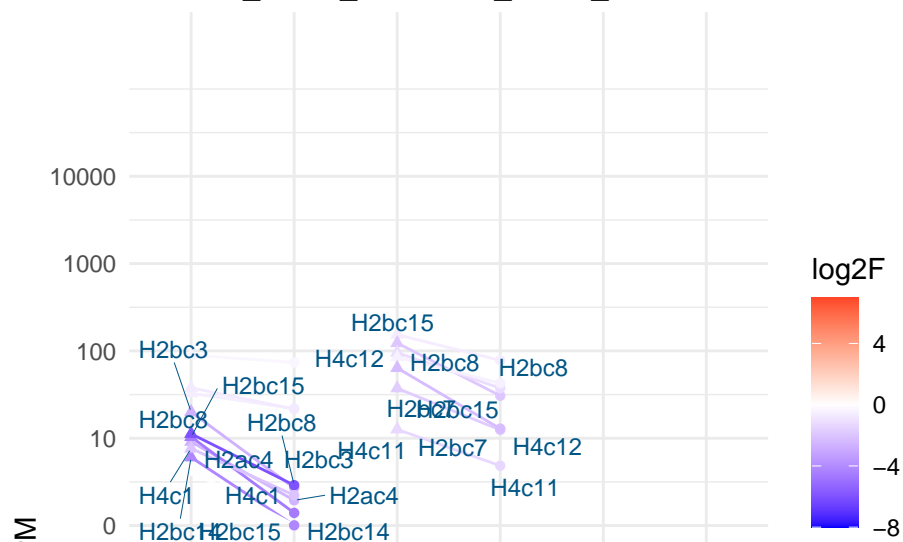
age

● Old

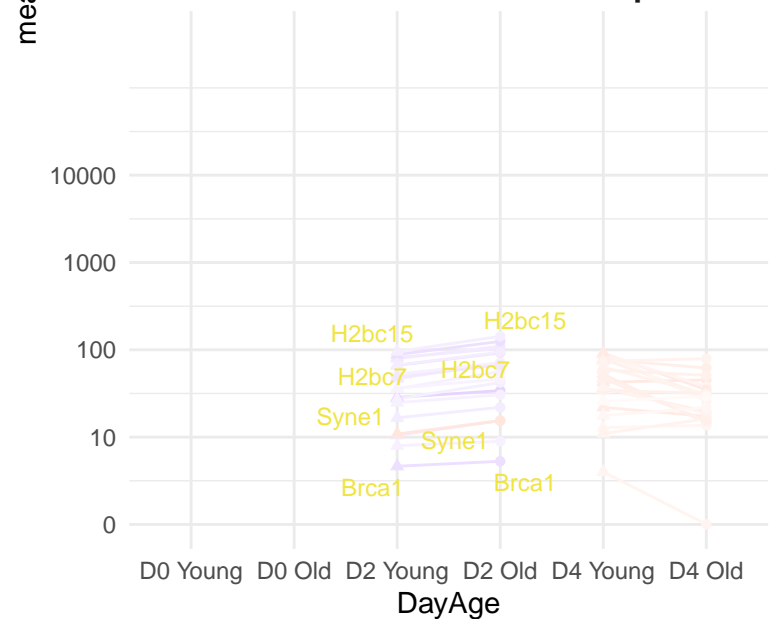
▲ Young

REACTOME_MEIOTIC_SYNAPSIS

D0_FAPs_Down.D2_FAPs_Down

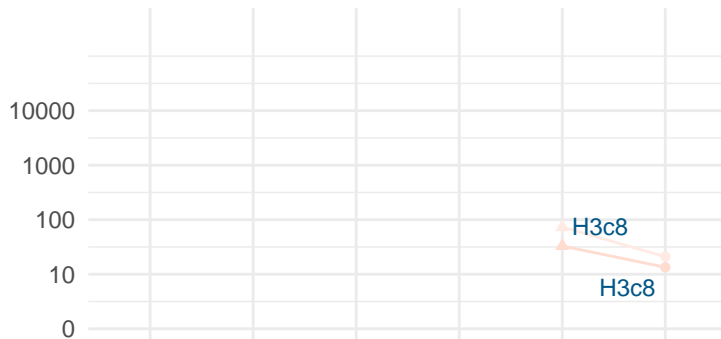


D2_sCs_Down.D4_sCs_Up

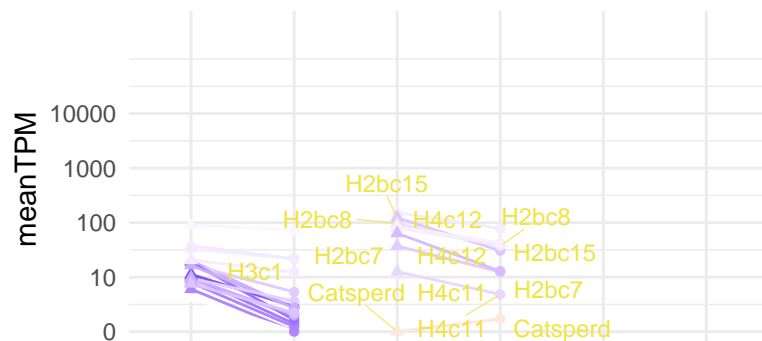


REACTOME_REPRODUCTION

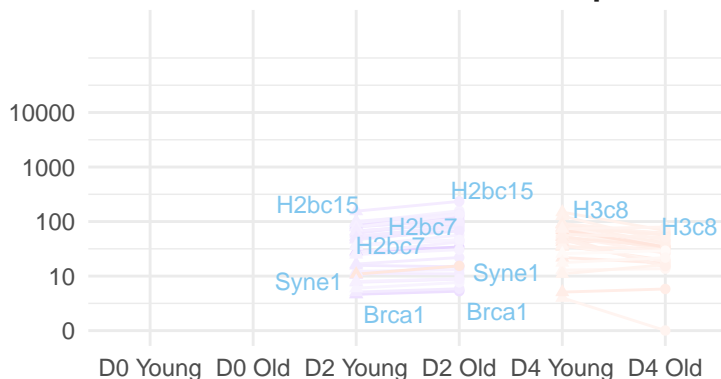
D4_EC_s_Up



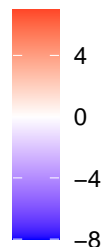
D0_FAP_s_Down.D2_FAP_s_Down



D2_sCs_Down.D4_sCs_Up



log₂F



Genes padj < 0.05 & |log₂F| > 1 DE in

a EC_s

a FAP_s

a sCs

age

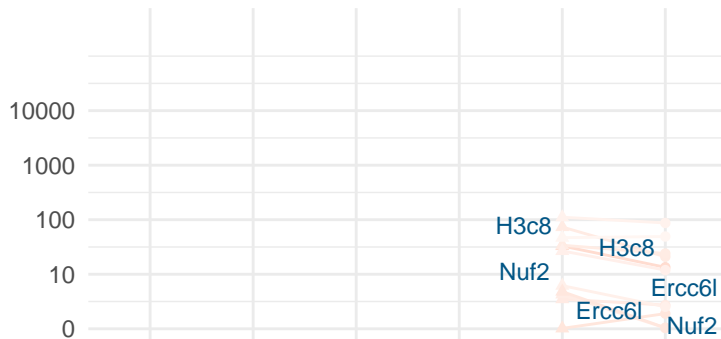
● Old

▲ Young

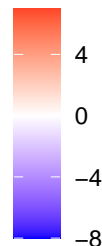
DayAge

REACTOME_RHO_GTPASE_EFFECTORS

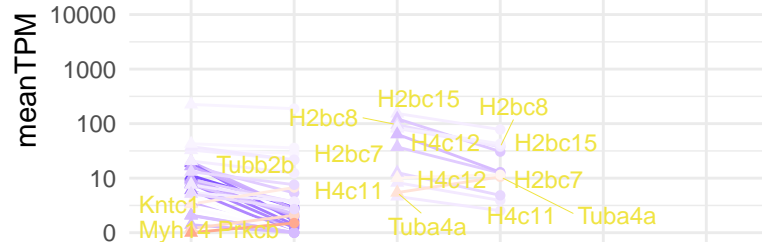
D4_EC_s_Up



log₂F



D0_FAP_s_Down.D2_FAP_s_Down



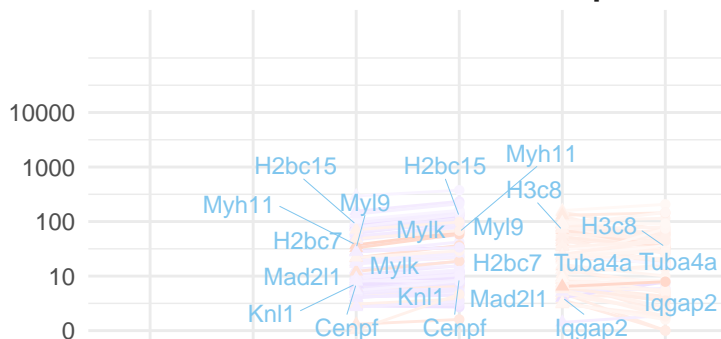
Genes padj < 0.05 & |log₂F| > 1 DE in

a ECs

a FAPs

a sCs

D2_sCs_Down.D4_sCs_Up



age

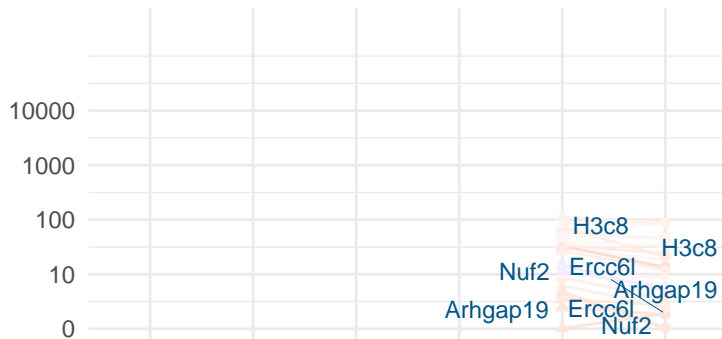
● Old

▲ Young

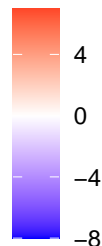
D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old

DayAge

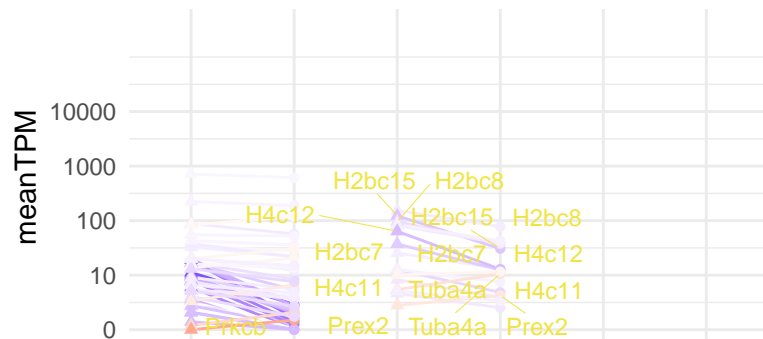
D4_ECUs_Up



log2F



D0_FAPs_Down.D2_FAPs_Down



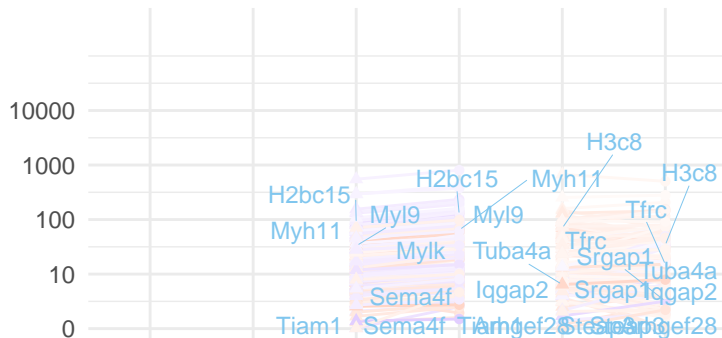
Genes padj < 0.05 & |log2F| > 1 DE in

a ECs

a FAPs

a sCs

D2_sCs_Down.D4_sCs_Up



age

● Old

▲ Young

D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old

DayAge

D4_EC5_Up



Genes $p_{adj} < 0.05$ & $|\log_2 F| > 1$ DE in

a FAPs

a sCs

D2_sCs_Down.D4_sCs_Up



- Old

▲ Young

D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old

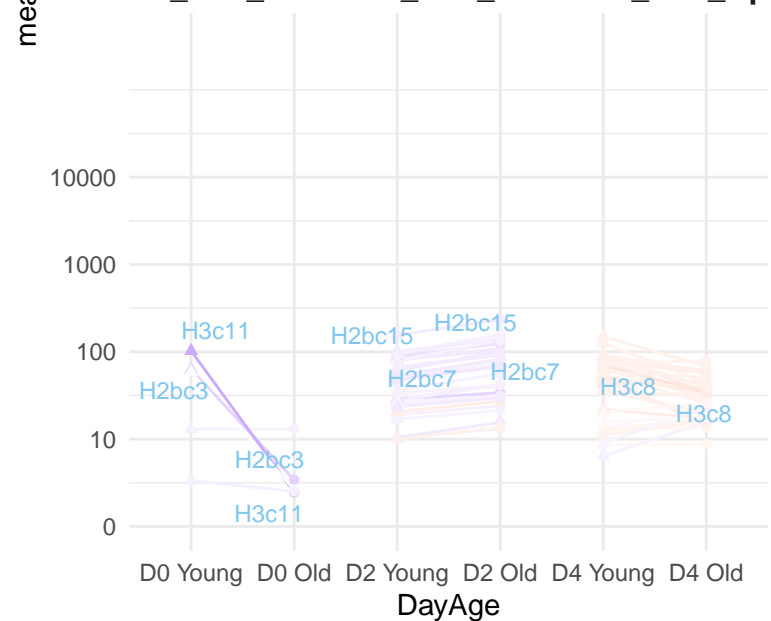
DayAge

REACTOME_ACTIVATION_OF_ANTERIOR_HOX_GENES_IN_HINDBRAIN_D

D0_FAPs_Down.D2_FAPs_Down



D0_sCs_Down.D2_sCs_Down.D4_sCs_Up



Genes padj <0.05 & |log2F| > 1 DE in

a FAPs

a sCs

age

• Old

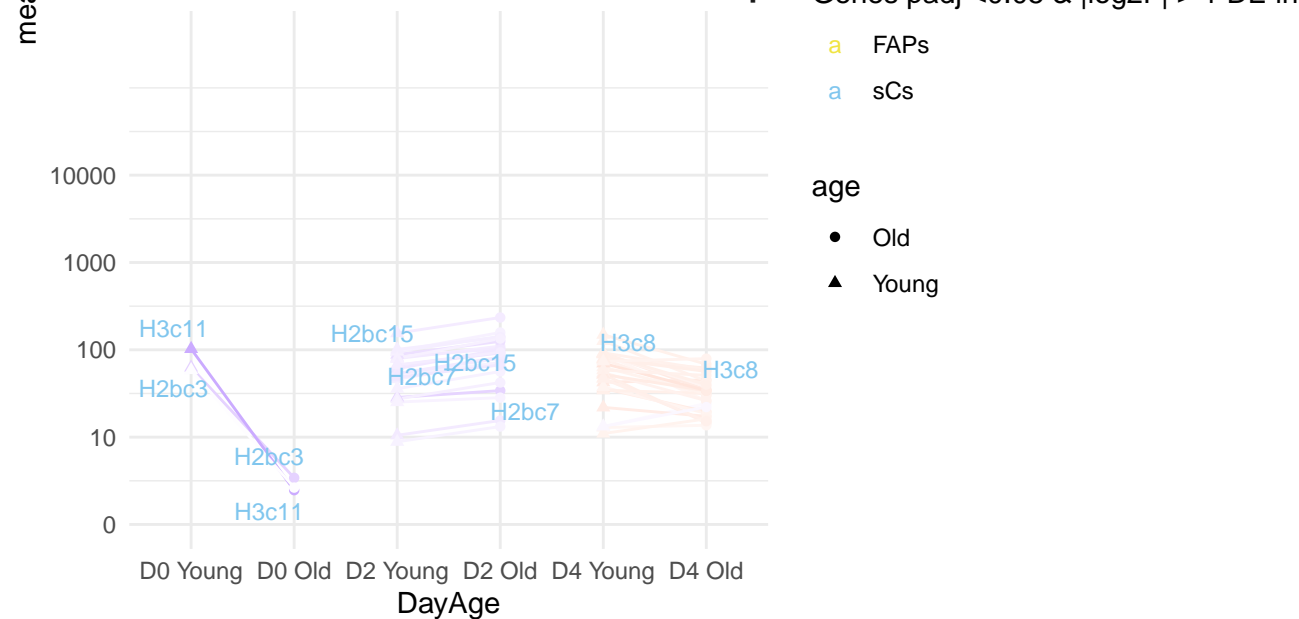
▲ Young

REACTOME_FORMATION_OF_THE_BETA_CATENIN_TCF_TRANSACTIVATI

D0_FAPs_Down.D2_FAPs_Down

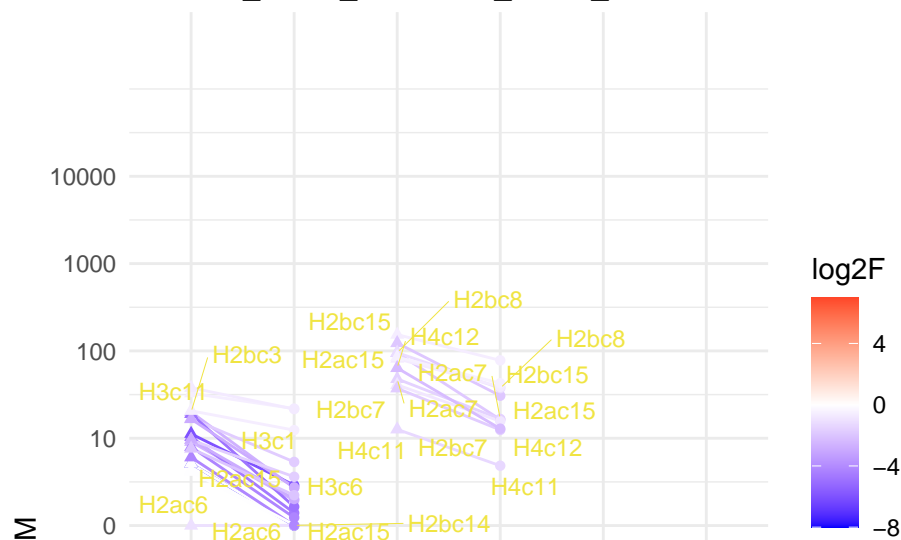


D0_sCs_Down.D2_sCs_Down.D4_sCs_Up

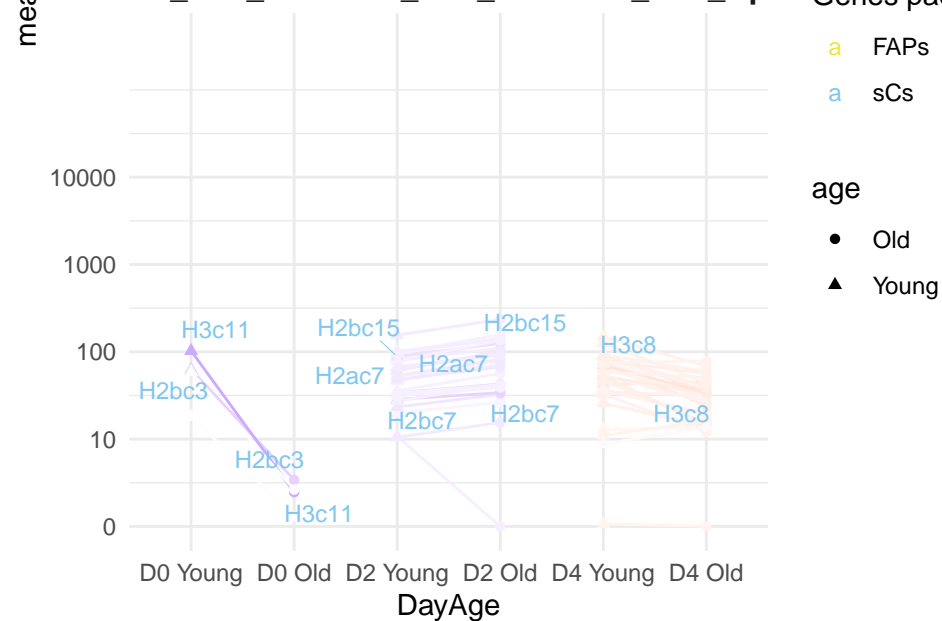


REACTOME_HDACS_DEACETYLATE_HISTONES

D0_FAPs_Down.D2_FAPs_Down

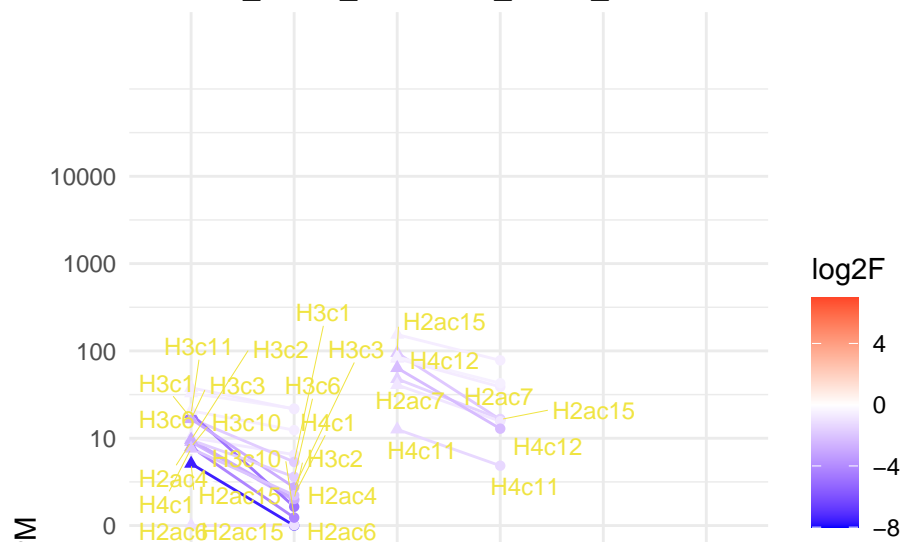


D0_sCs_Down.D2_sCs_Down.D4_sCs_Up

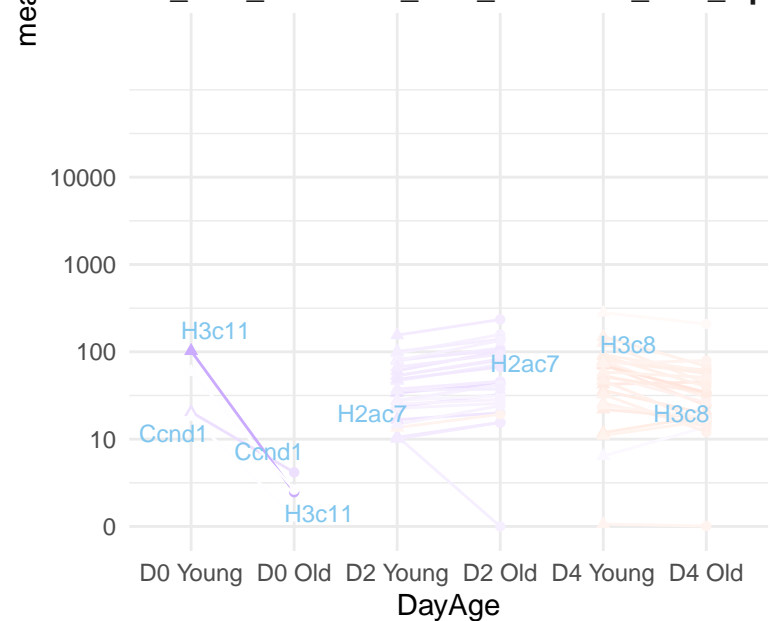


REACTOME_RMTS_METHYLATE_HISTONE_ARGININES

D0_FAPs_Down.D2_FAPs_Down



D0_sCs_Down.D2_sCs_Down.D4_sCs_Up



Genes padj <0.05 & |log2F| > 1 DE in

a FAPs

a sCs

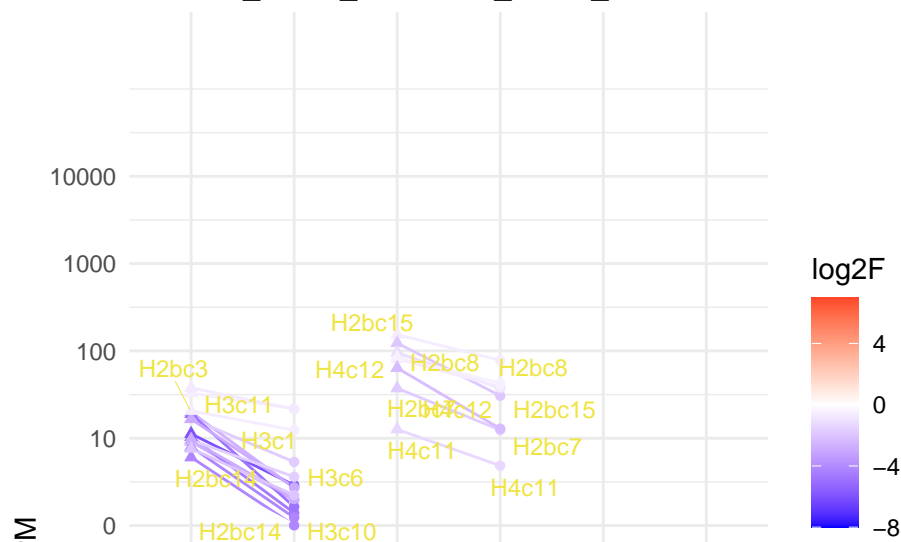
age

• Old

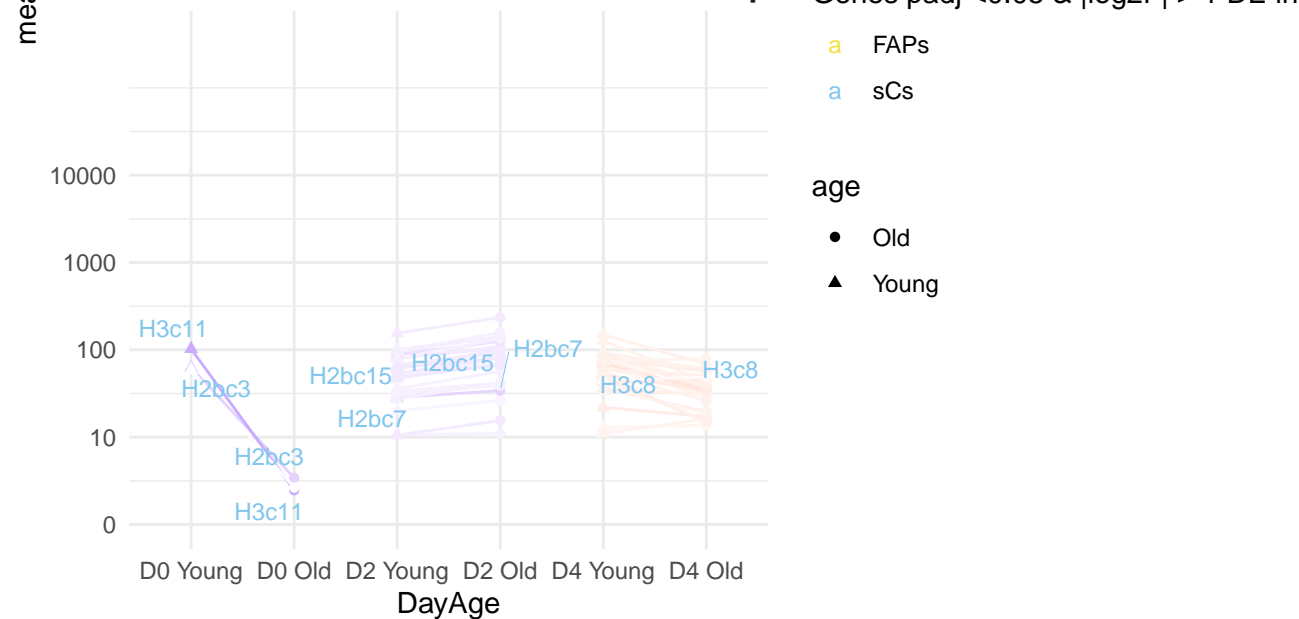
▲ Young

REACTOME_RNA_POLYMERASE_I_TRANSCRIPTION

D0_FAPs_Down.D2_FAPs_Down

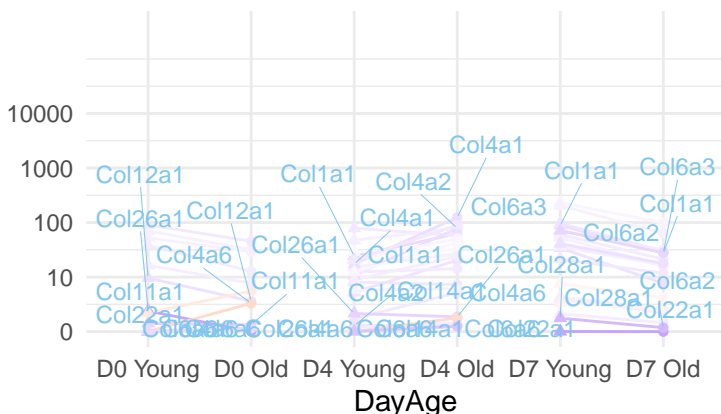


D0_sCs_Down.D2_sCs_Down.D4_sCs_Up



▲ Young

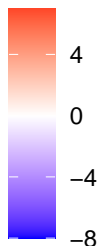
▲ Young



DayAge

▲ Young

D4_EC5_Up



Genes padj <0.05 & |log2F| > 1 DE in

a ECs

a FAPs

a sCs

D0_sCs_Down.D2_sCs_Down.D4_sCs_Up

age

- Old

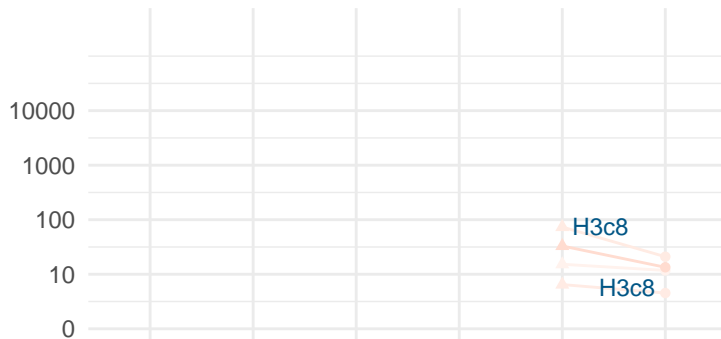
▲ Young



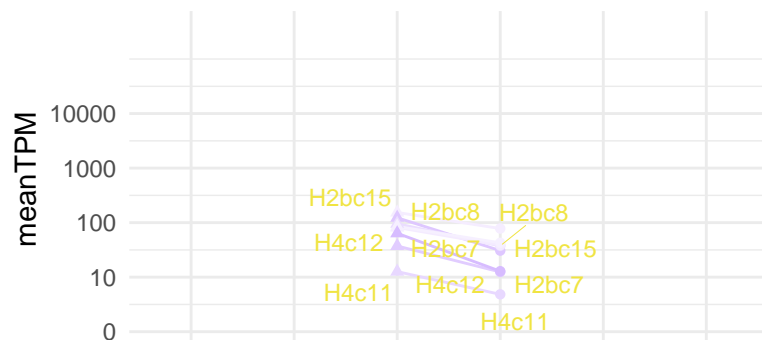
DayAge

REACTOME_DISEASES_OF_PROGRAMMED_CELL_DEATH

D4_EC_s_Up



D2_FAP_s_Down



log₂F



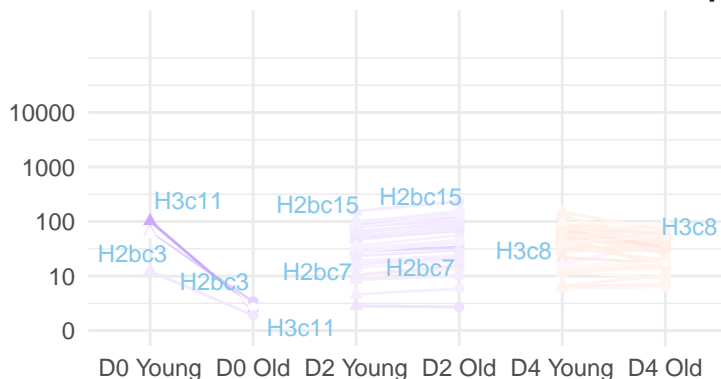
Genes padj < 0.05 & |log₂F| > 1 DE in

a EC_s

a FAP_s

a sCs

D0_sCs_Down.D2_sCs_Down.D4_sCs_Up



age

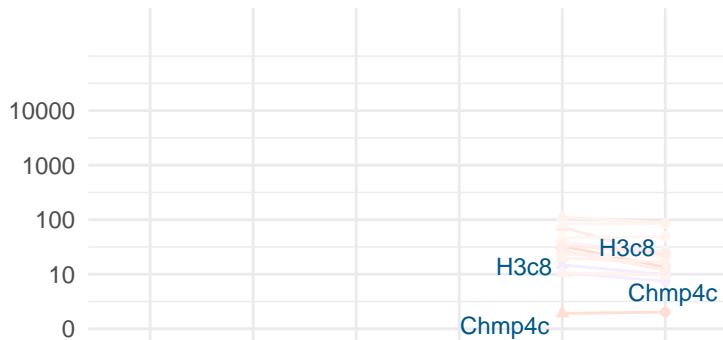
● Old

▲ Young

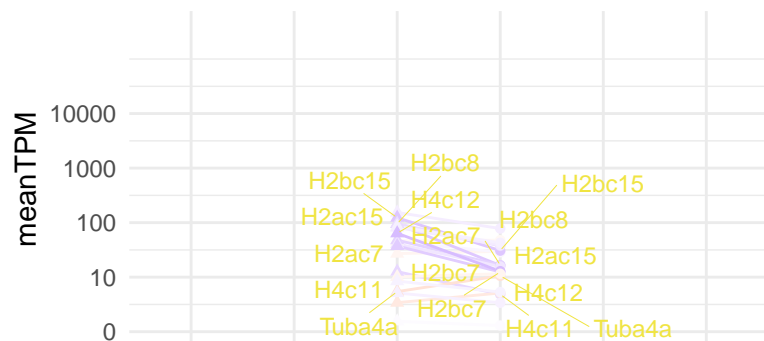
DayAge

REACTOME_INFECTIOUS_DISEASE

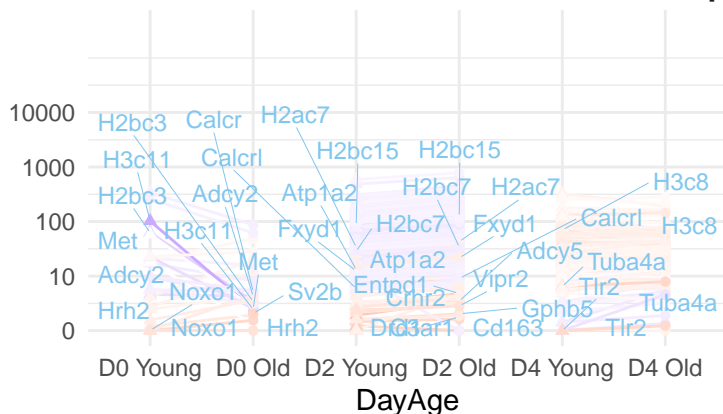
D4_ECs_Up



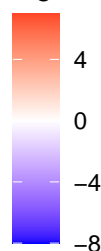
D2_FAPs_Down



D0_sCs_Down.D2_sCs_Down.D4_sCs_Up



log2F



Genes padj <0.05 & |log2F| > 1 DE in

a ECs

a FAPs

a sCs

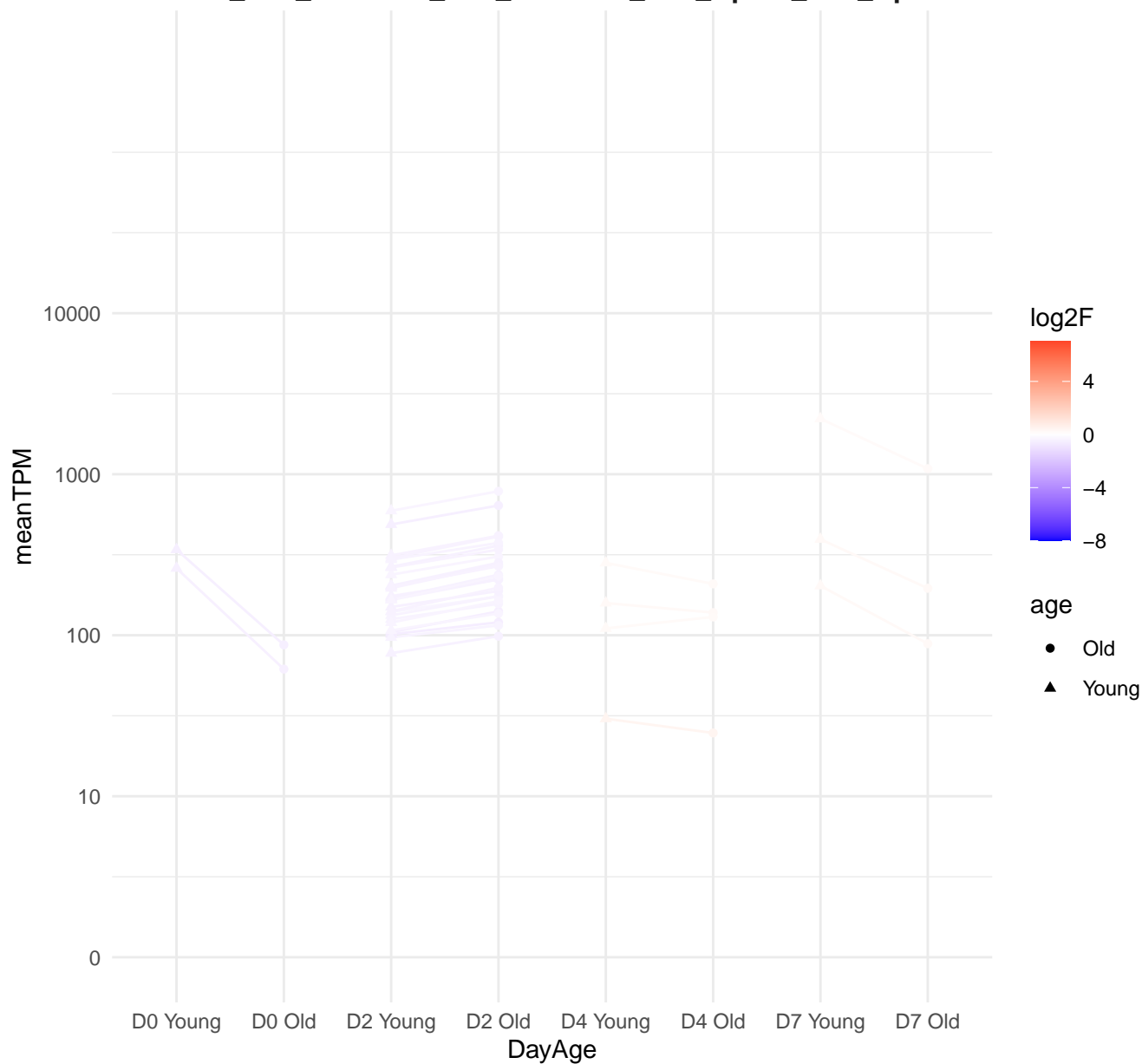
age

● Old

▲ Young

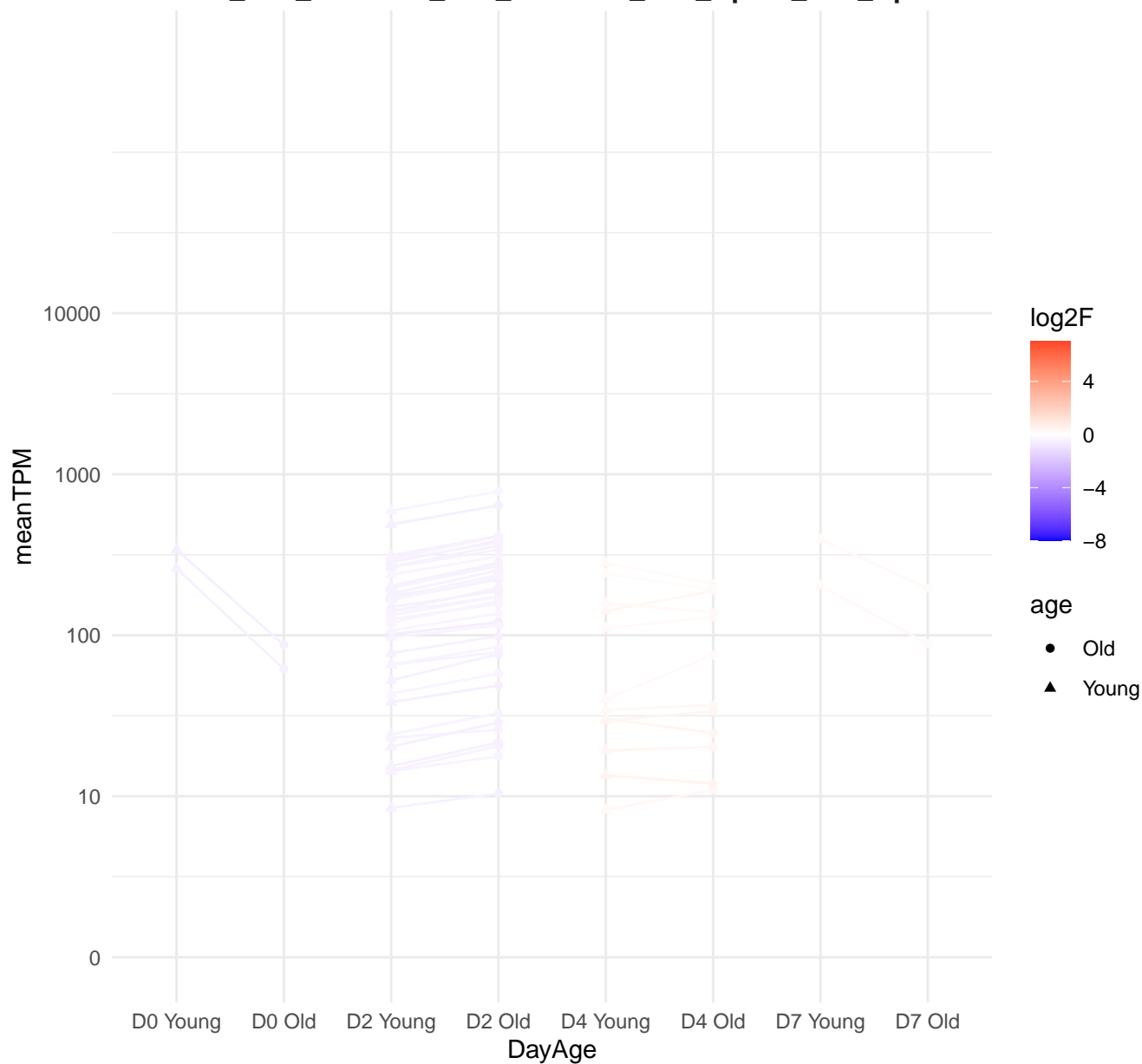
REACTOME_EUKARYOTIC_TRANSLATION_ELONGATION

D0_sCs_Down.D2_sCs_Down.D4_sCs_Up.D7_sCs_Up



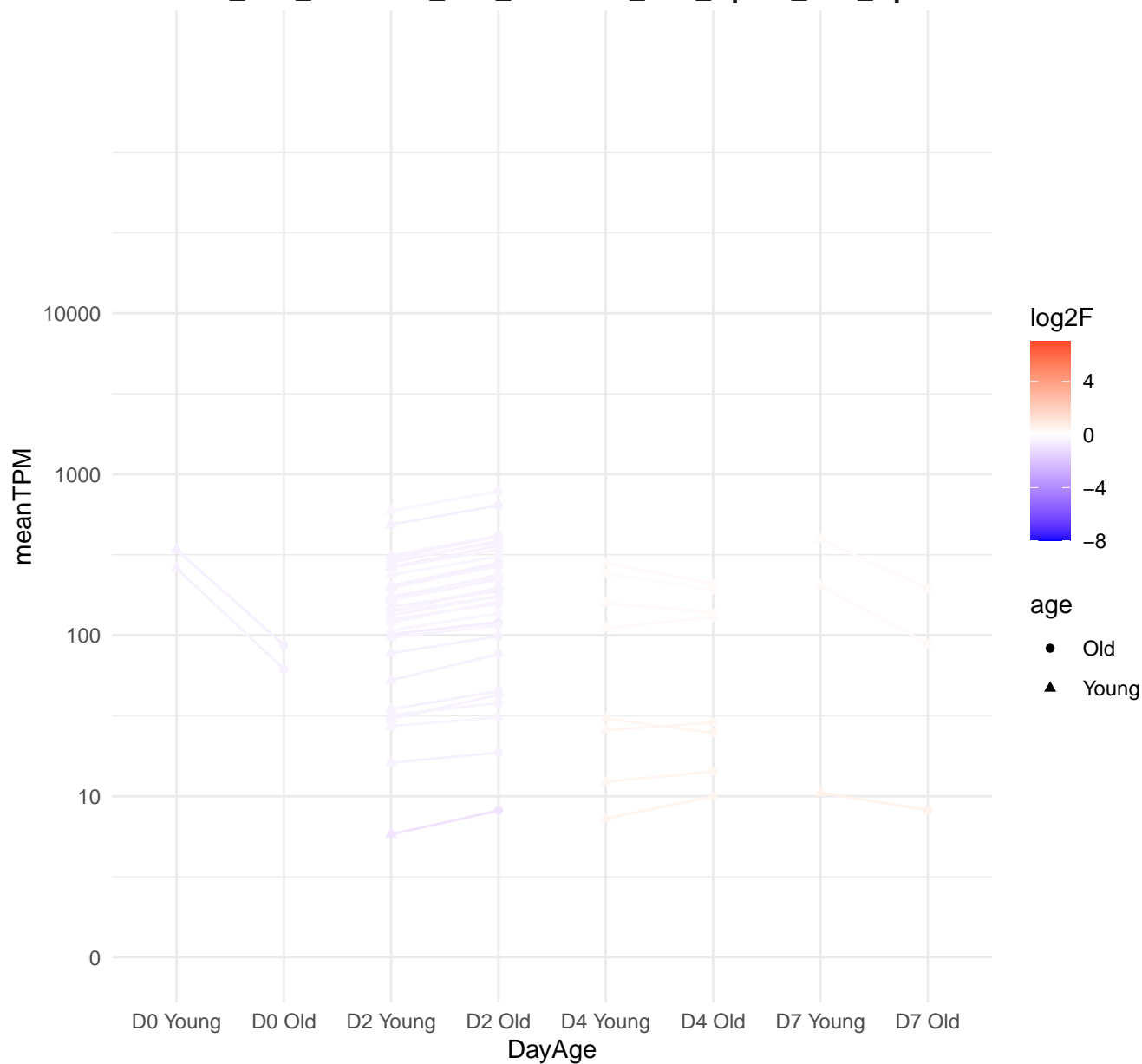
REACTOME_EUKARYOTIC_TRANSLATION_INITIATION

D0_sCs_Down.D2_sCs_Down.D4_sCs_Up.D7_sCs_Up



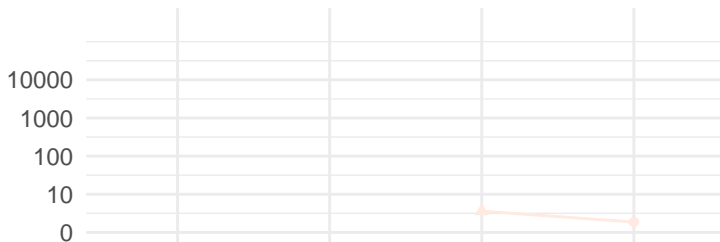
REACTOME_NONSENSE_MEDIATED_DECAY_NMD

D0_sCs_Down.D2_sCs_Down.D4_sCs_Up.D7_sCs_Up

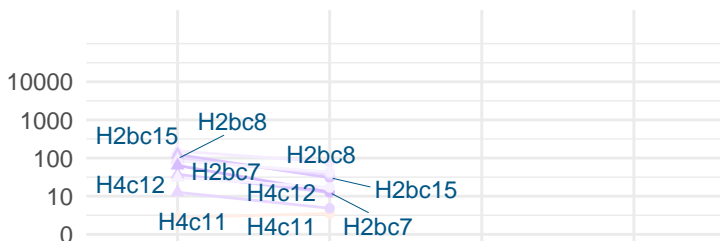


REACTOME_DNA_REPAIR

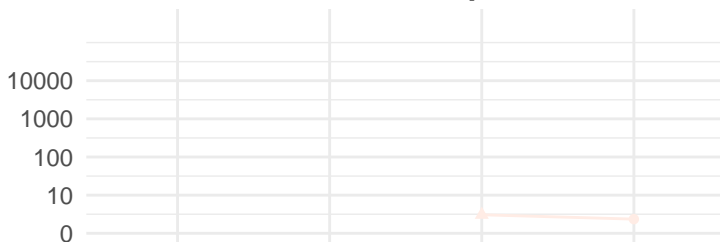
D4_ECUs_Up



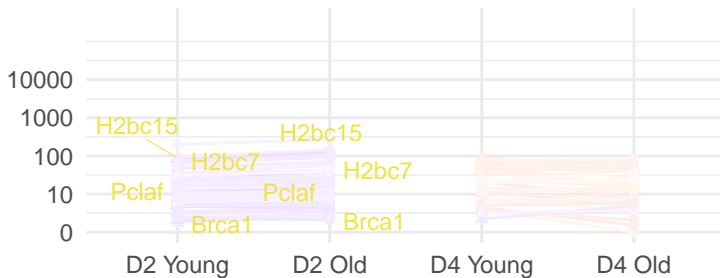
D2_FAPs_Down



D4_M2_Up



D2_sCs_Down.D4_sCs_Up



log2F



Genes padj <0.05 & |log2F| > 1 DE in

a FAPs

a sCs

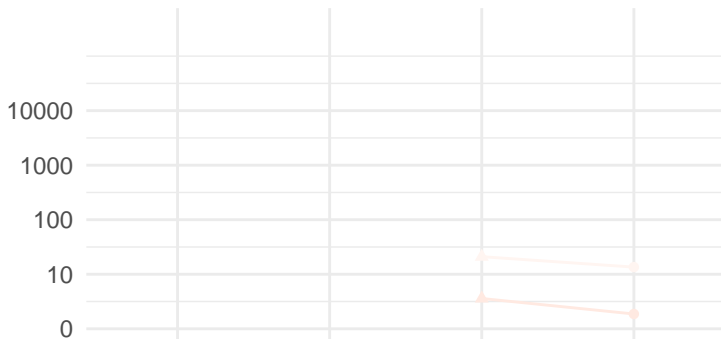
age

• Old

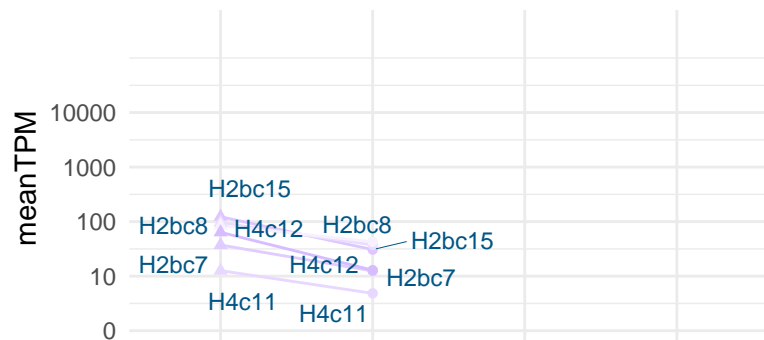
▲ Young

REACTOME_G2_M_CHECKPOINTS

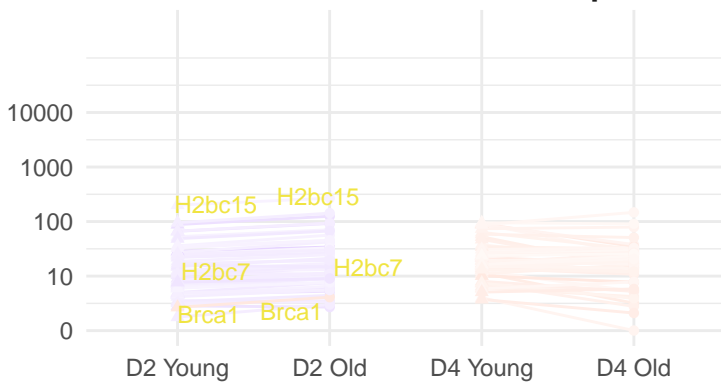
D4_ECUs_Up



D2_FAPs_Down



D2_sCs_Down.D4_sCs_Up



log2F



Genes padj <0.05 & |log2F| > 1 DE in

a FAPs

a sCs

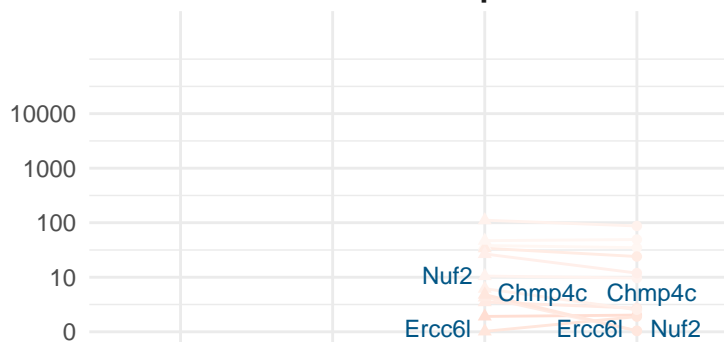
age

• Old

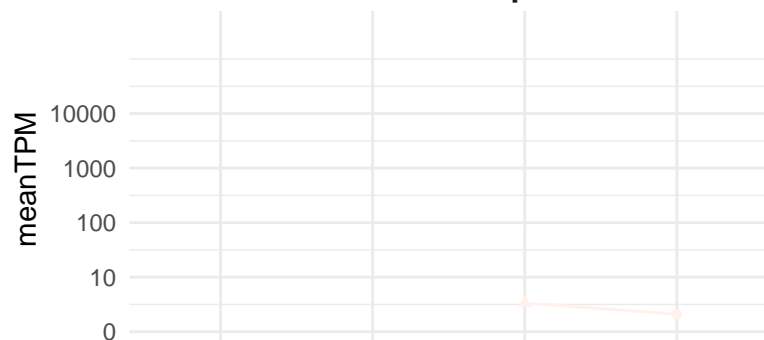
▲ Young

REACTOME_MITOTIC_METAPHASE_AND_ANAPHASE

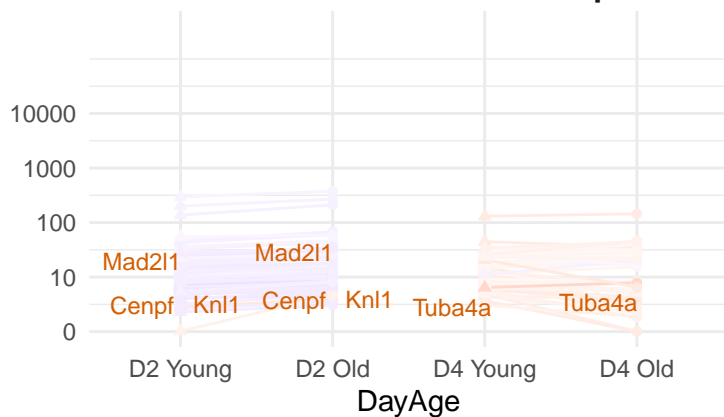
D4_EC_s_Up



D4_M2_Up



D2_sCs_Down.D4_sCs_Up



log2F



Genes padj <0.05 & |log2F| > 1 DE in

a ECs

a sCs

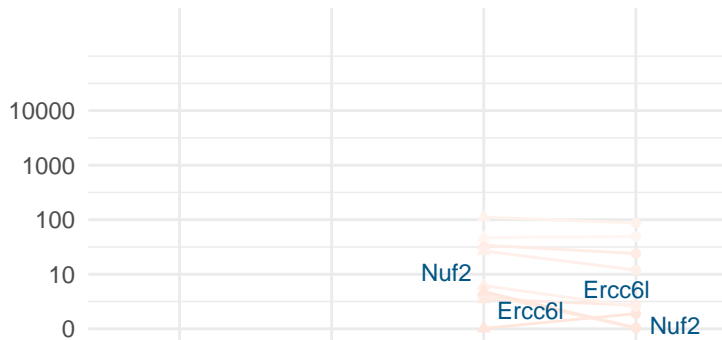
age

• Old

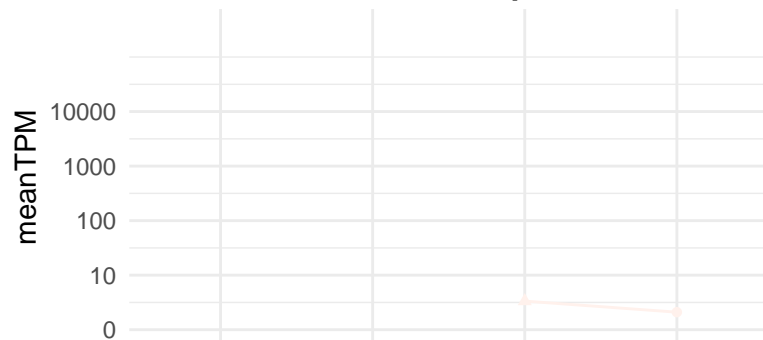
▲ Young

REACTOME_SEPARATION_OF_SISTER_CHROMATIDS

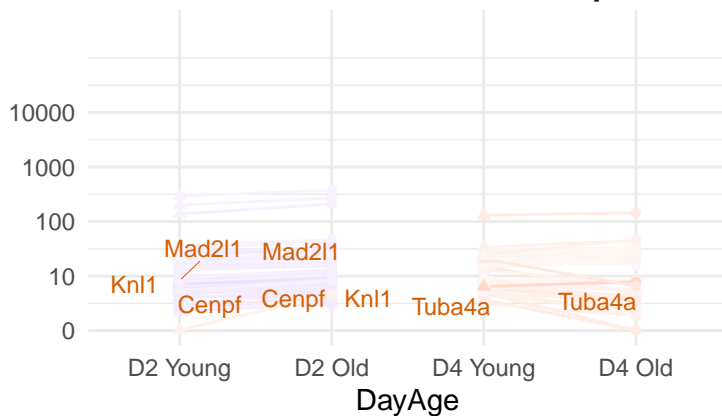
D4_EC_s_Up



D4_M2_s_Up



D2_sCs_Down.D4_sCs_Up



log2F



Genes padj <0.05 & |log2F| > 1 DE in

a ECs

a sCs

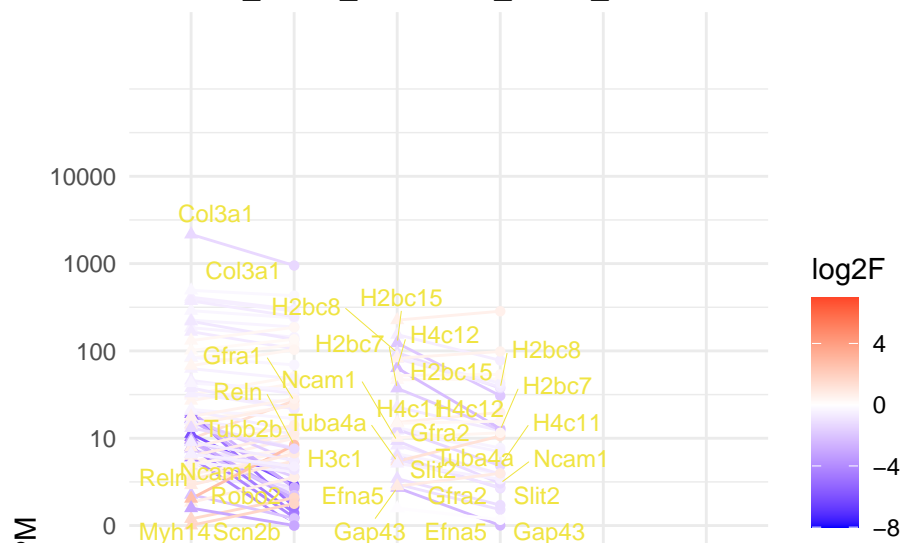
age

• Old

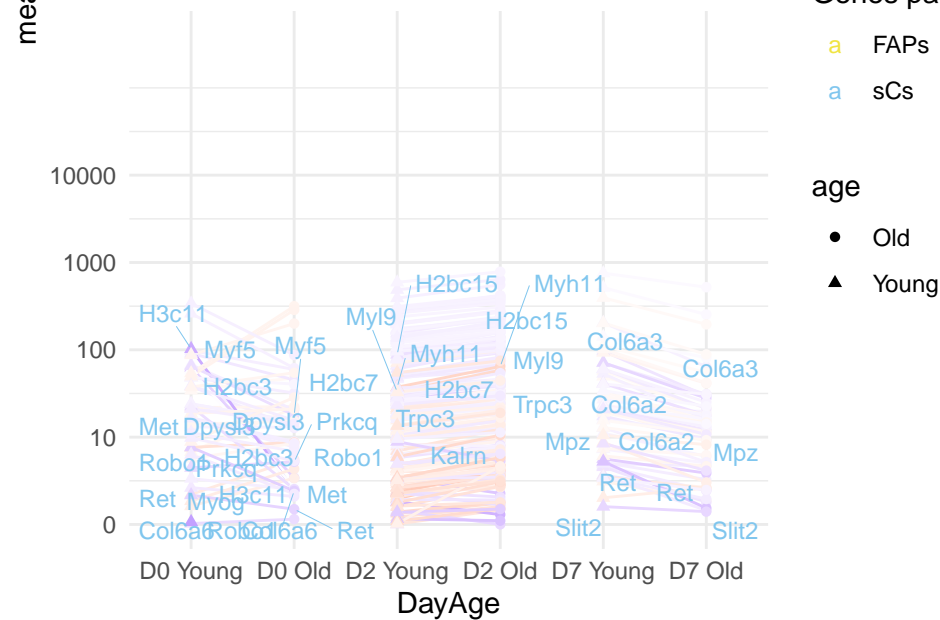
▲ Young

REACTOME_DEVELOPMENTAL_BIOLOGY

D0_FAPs_Down.D2_FAPs_Down

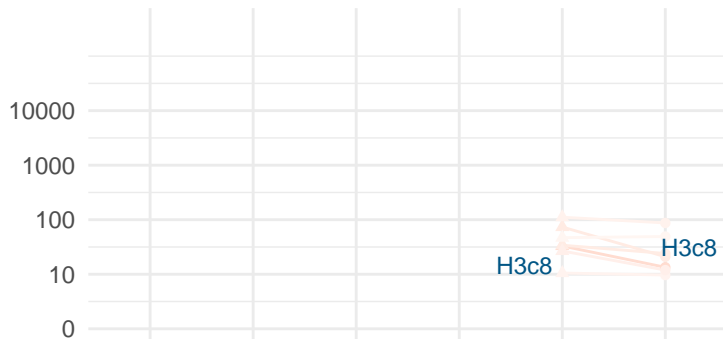


0_sCs_Down.D2_sCs_Down.D7_sCs_Dow



REACTOME_HCMV_EARLY_EVENTS

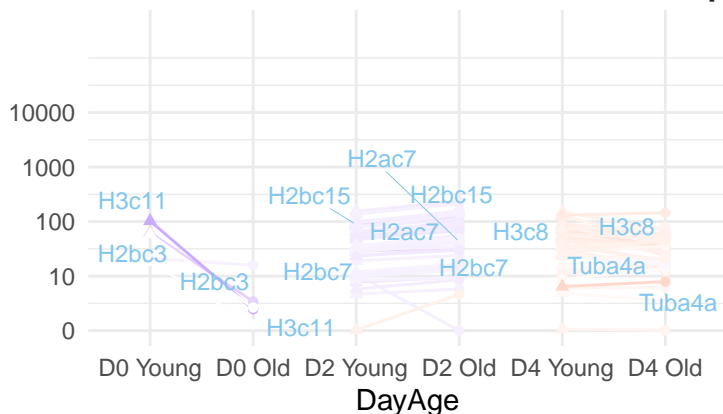
D4_EC_s_Up



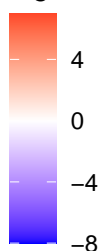
D0_FAP_s_Down



D0_sCs_Down.D2_sCs_Down.D4_sCs_Up



log₂F



Genes padj < 0.05 & |log₂F| > 1 DE in

a EC_s

a FAP_s

a sCs

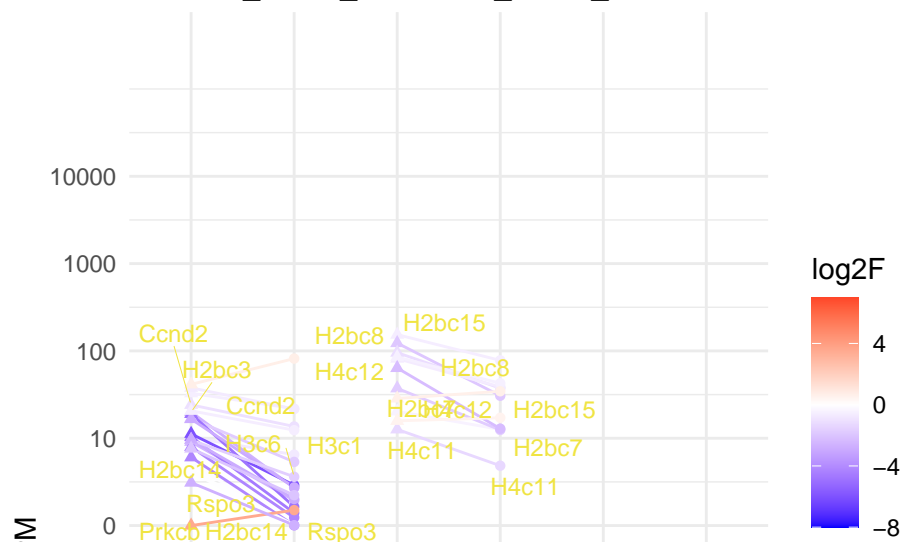
age

● Old

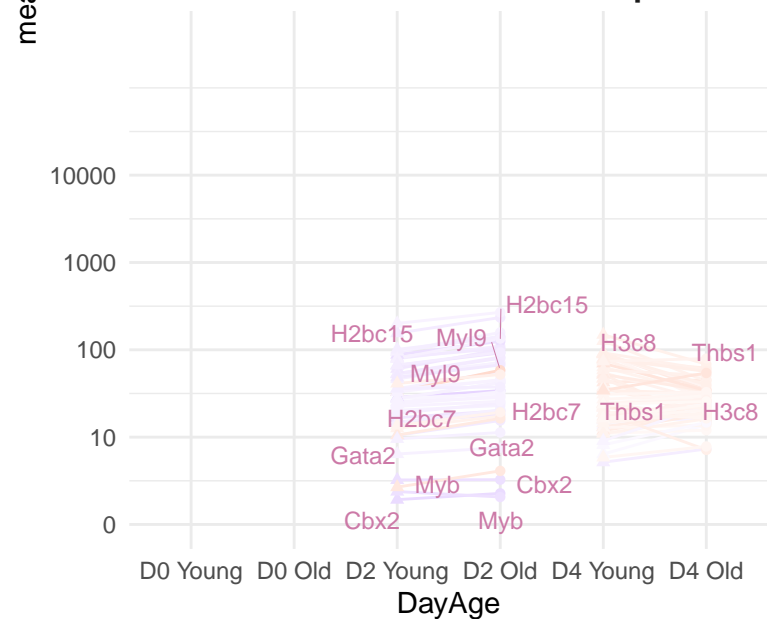
▲ Young

REACTOME_TRANSCRIPTIONAL_REGULATION_BY_RUNX1

D0_FAPs_Down.D2_FAPs_Down

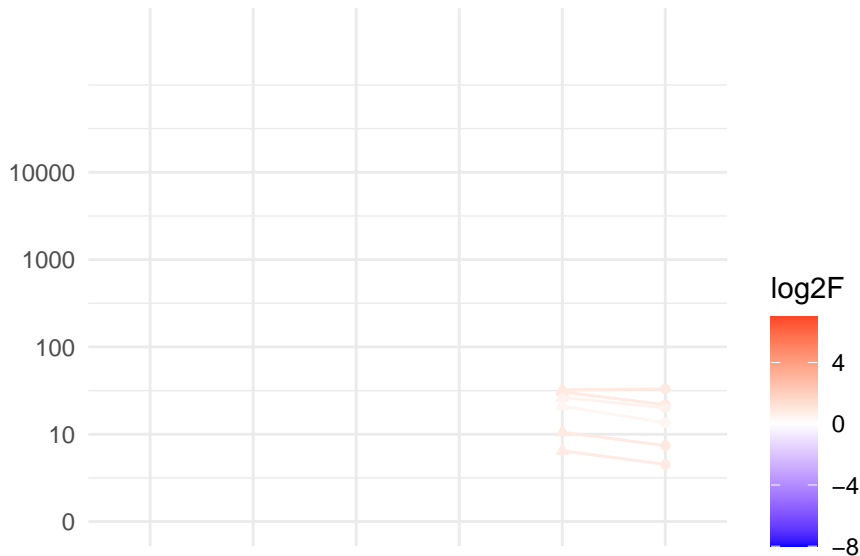


D2_sCs_Down.D4_sCs_Up



REACTOME_MITOTIC_G1_PHASE_AND_G1_S_TRANSITION

D4_EC_s_Up



D0_sCs_Down.D2_sCs_Down.D4_sCs_Up

