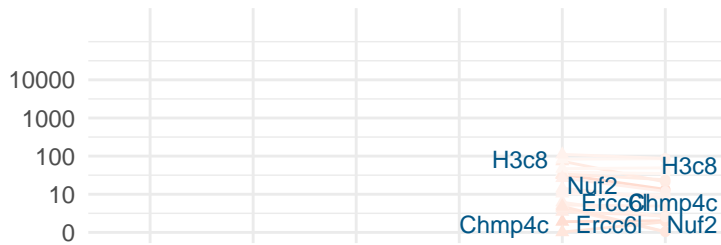
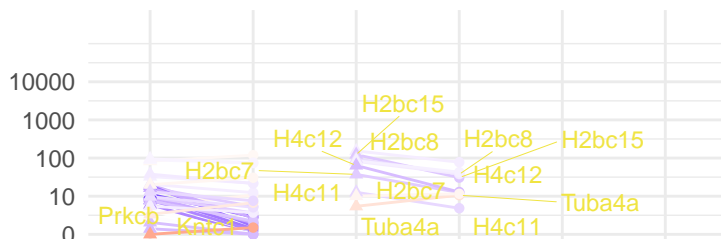


# REACTOME\_M\_PHASE

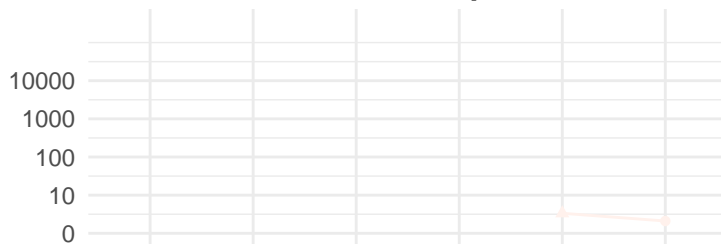
## D4\_EC<sub>s</sub>\_Up



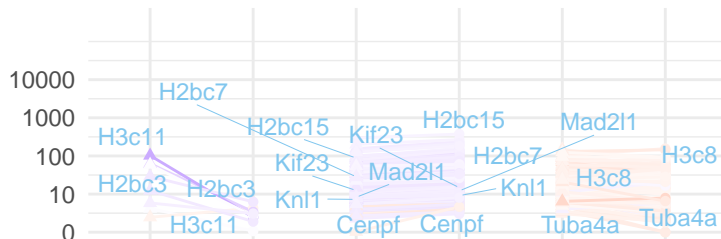
## D0\_FAP<sub>s</sub>\_Down.D2\_FAP<sub>s</sub>\_Down



## D4\_M2\_Up



## 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

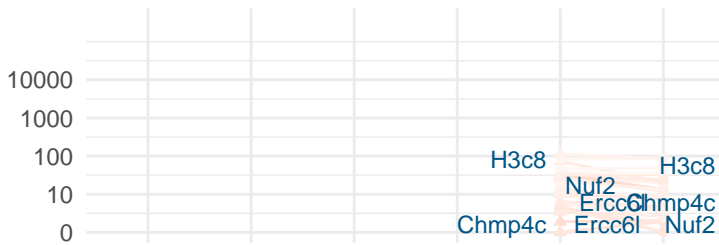
meanTPM

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

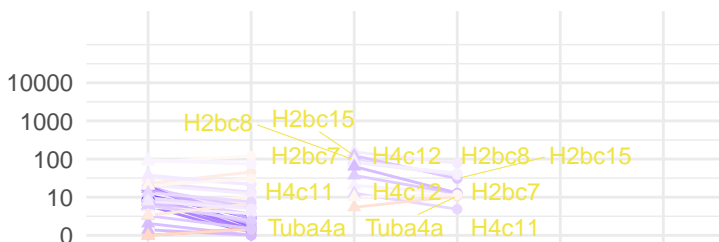
DayAge

# REACTOME\_CELL\_CYCLE

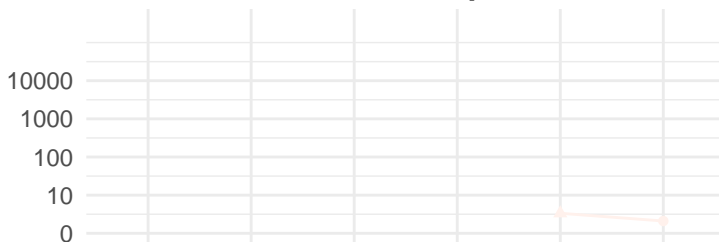
## D4\_EC<sub>s</sub>\_Up



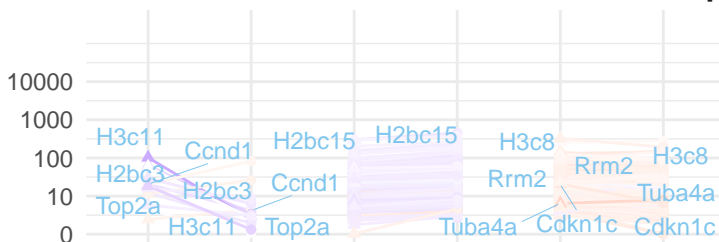
## D0\_FAP<sub>s</sub>\_Down.D2\_FAP<sub>s</sub>\_Down



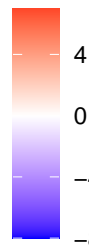
## D4\_M2<sub>s</sub>\_Up



## D0\_sCs\_Down.D2\_sCs\_Down.D4\_sCs\_Up



log2F



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

a EC<sub>s</sub>

a FAP<sub>s</sub>

a sCs

age

• Old

▲ Young

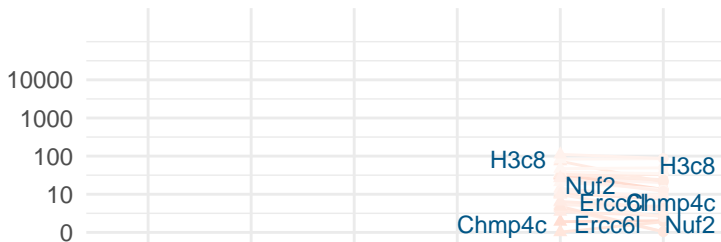
meanTPM

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

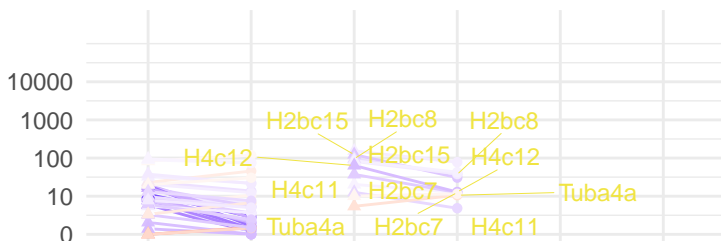
DayAge

# REACTOME\_CELL\_CYCLE\_MITOTIC

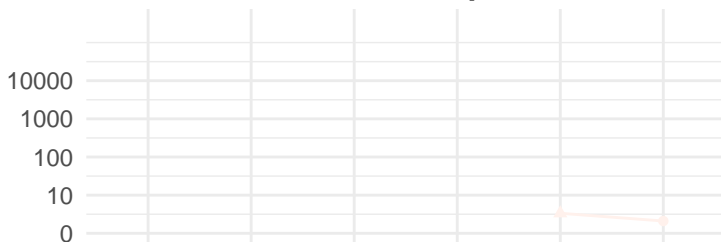
## D4\_EC\_S\_Up



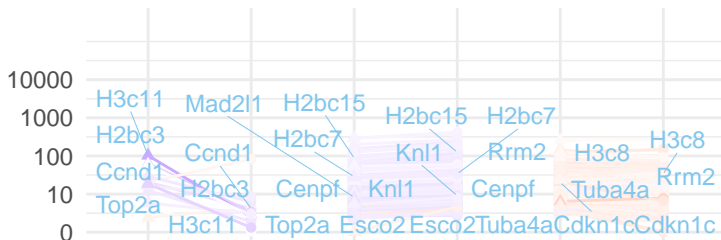
## D0\_FAPs\_Down.D2\_FAPs\_Down



## D4\_M2\_Up



## 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

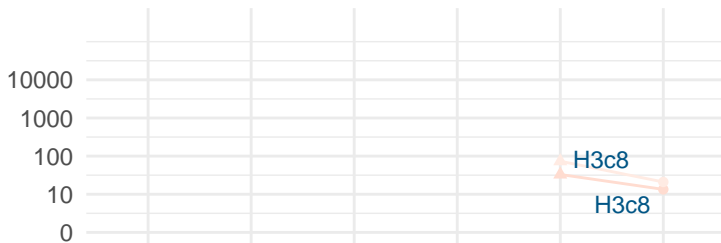
▲ Young

meanTPM

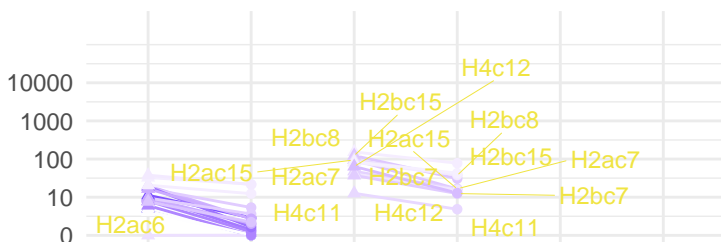
DayAge

# REACTOME\_HATS\_ACETYLATE\_HISTONES

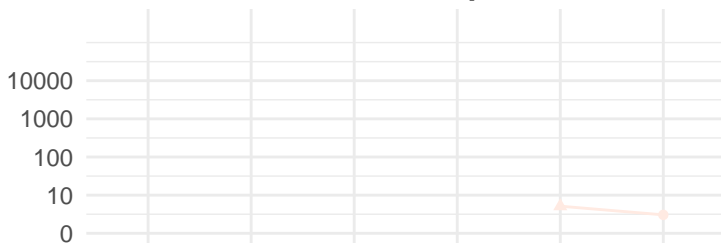
## D4\_EC<sub>s</sub>\_Up



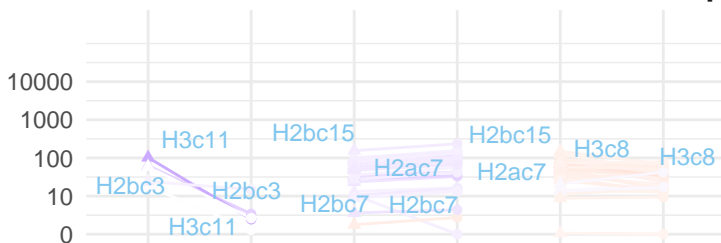
## D0\_FAP<sub>s</sub>\_Down.D2\_FAP<sub>s</sub>\_Down



## D4\_M2<sub>s</sub>\_Up



## 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

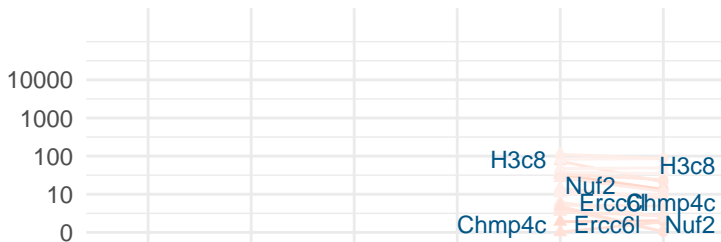
• Old

▲ Young

meanTPM

DayAge

## D4\_EC\_s\_Up



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

a ECs

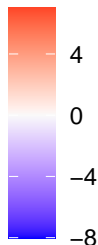
a FAPs

a sCs

age

- Old

▲ Young

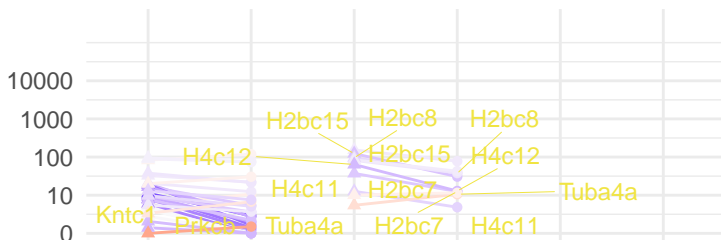
 $\log_2 F$ 

-4

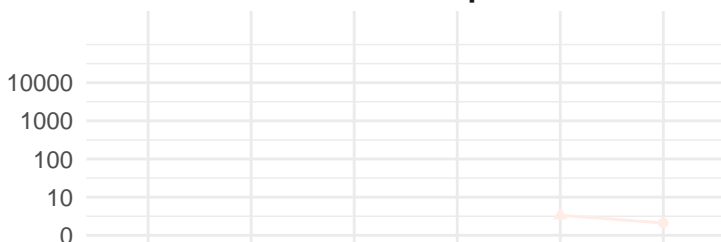
-4

-8

meanTPM



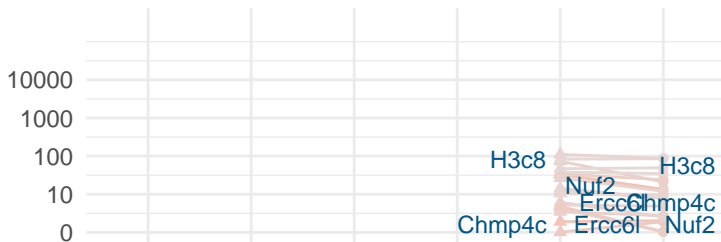
**D4\_M2\_Up**



**D0\_sCs\_Down.D2\_sCs\_Down.D4\_sCs\_Up**

DayAge

## D4\_EC\_S\_Up



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

a ECs

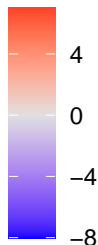
a FAPs

a sCs

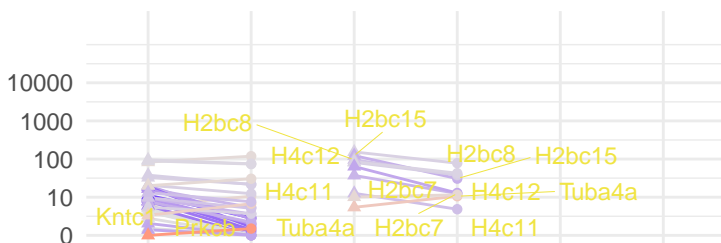
age

- Old

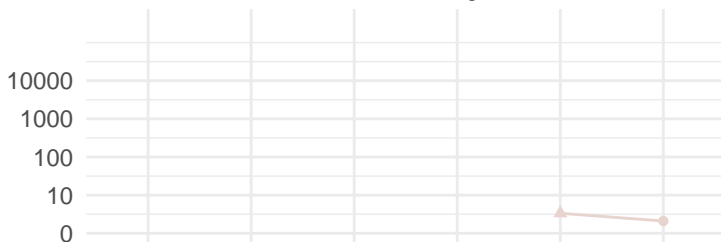
▲ Young

 $\log_2 F$ 

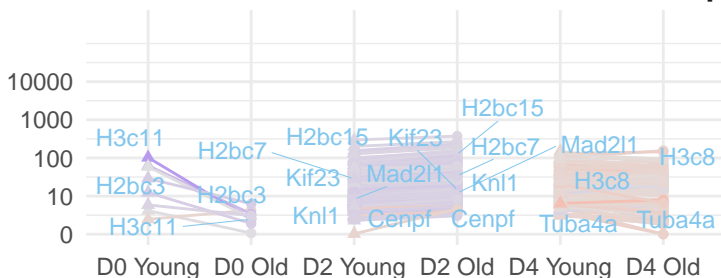
## D0\_FAPs\_Down.D2\_FAPs\_Down



**D4\_M2\_Up**



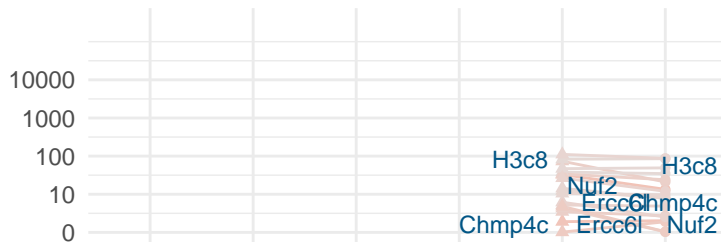
**D0\_sCs\_Down.D2\_sCs\_Down.D4\_sCs\_Up**



DayAge

# REACTOME\_M\_PHASE

## D4\_EC<sub>s</sub>\_Up



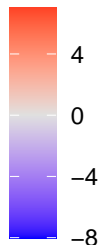
Genes padj <0.05 & |log<sub>2</sub>F| > 1 DE in

- a ECs
- a FAPs
- a sCs

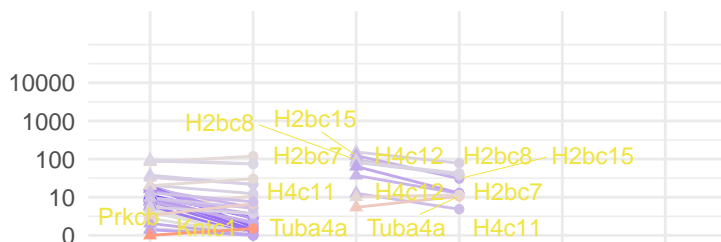
age

- Old
- ▲ Young

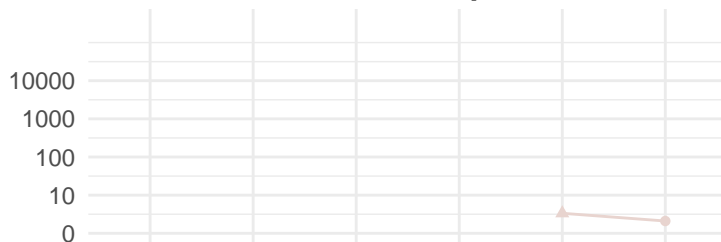
log<sub>2</sub>F



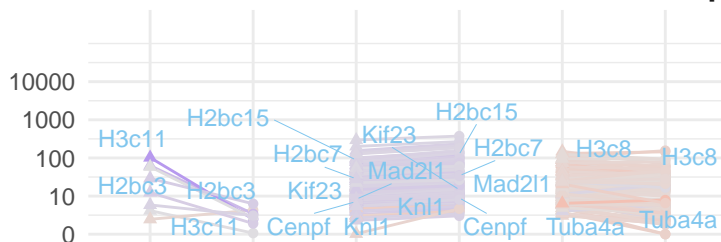
## D0\_FAP<sub>s</sub>\_Down.D2\_FAP<sub>s</sub>\_Down



## D4\_M2\_Up



## D0\_sCs\_Down.D2\_sCs\_Down.D4\_sCs\_Up

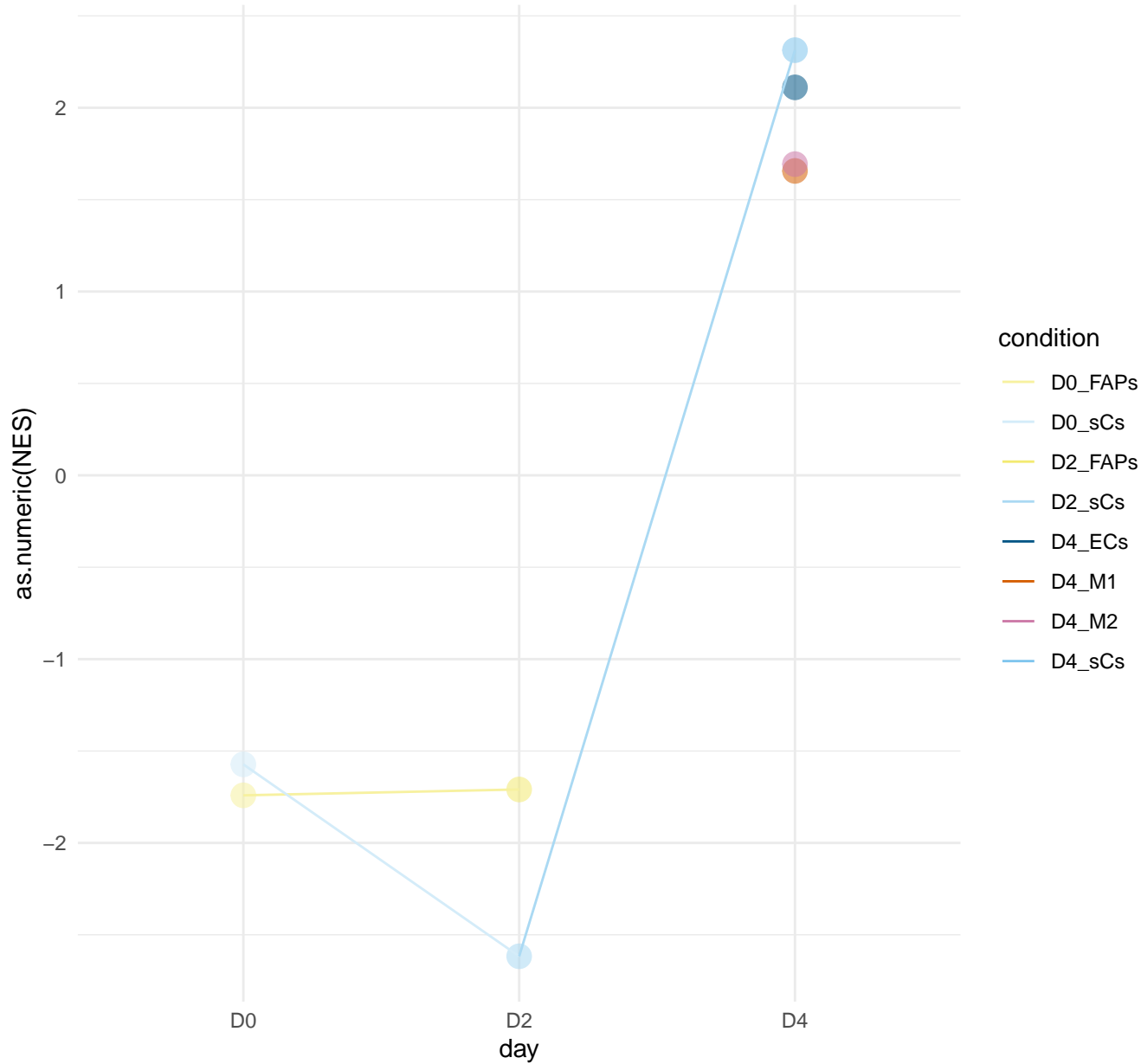


D0 Young D0 Old D2 Young D2 Old D4 Young D4 Old

DayAge

# Pathways with 8 conditions enriched

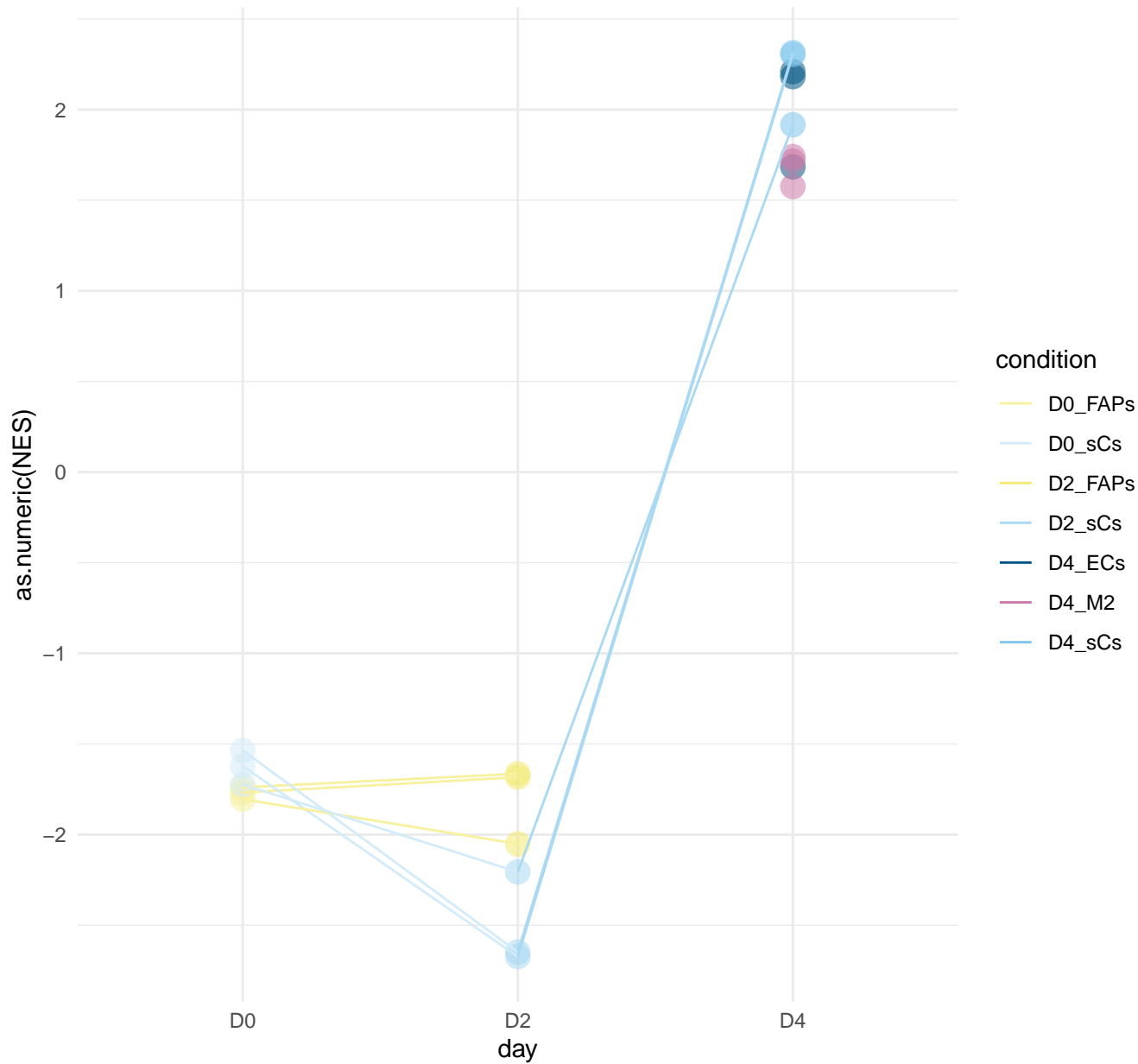
s\_down D2\_FAPs\_down D2\_sCs\_down D4\_ECcs\_up D4\_M1\_up D4\_M2\_up D4\_sCs\_up ,there





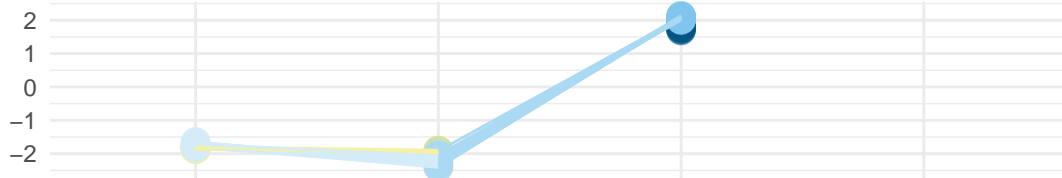
# Pathways with 7 conditions enriched

D0\_sCs\_down D2\_FAPs\_down D2\_sCs\_down D4\_EC\_s\_up D4\_M2\_up D4\_sCs\_up ,there are 3

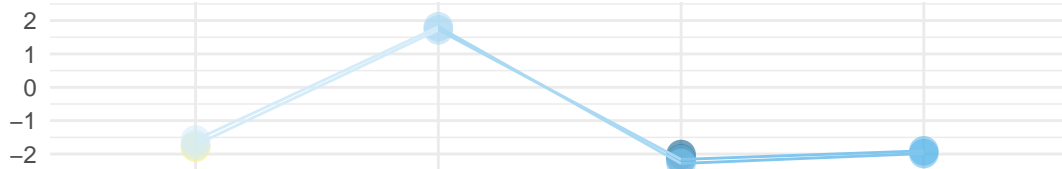


# Pathways with 6 conditions enriched

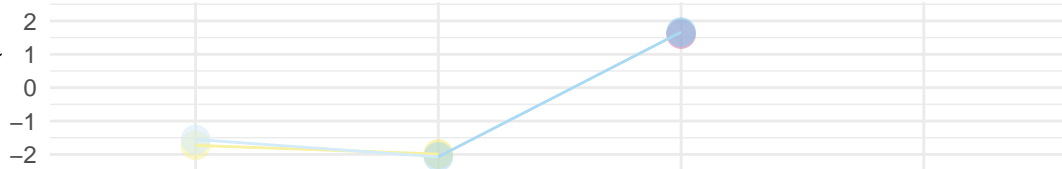
own D0\_sCs\_down D2\_FAPs\_down D2\_sCs\_down D4\_EC\_s\_up D4\_sCs\_up ,there are 17 with t



own D0\_sCs\_down D2\_sCs\_up D4\_EC\_s\_down D4\_sCs\_down D7\_sCs\_down ,there are 2 with t



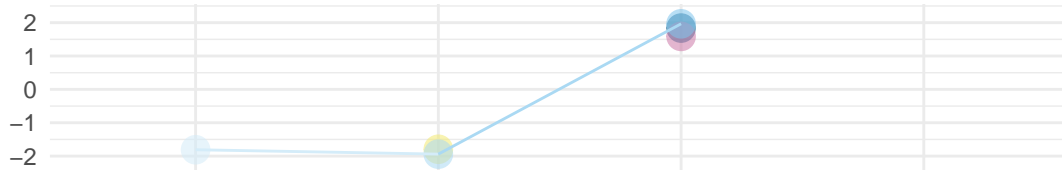
down D0\_sCs\_down D2\_FAPs\_down D2\_sCs\_down D4\_M2\_up D4\_sCs\_up ,there are 1 with th



\_down D2\_FAPs\_down D2\_sCs\_down D4\_EC\_s\_up D4\_M2\_up D4\_sCs\_up ,there are 1 with this



\_down D2\_FAPs\_down D2\_sCs\_down D4\_EC\_s\_up D4\_M2\_up D4\_sCs\_up ,there are 1 with this



condition

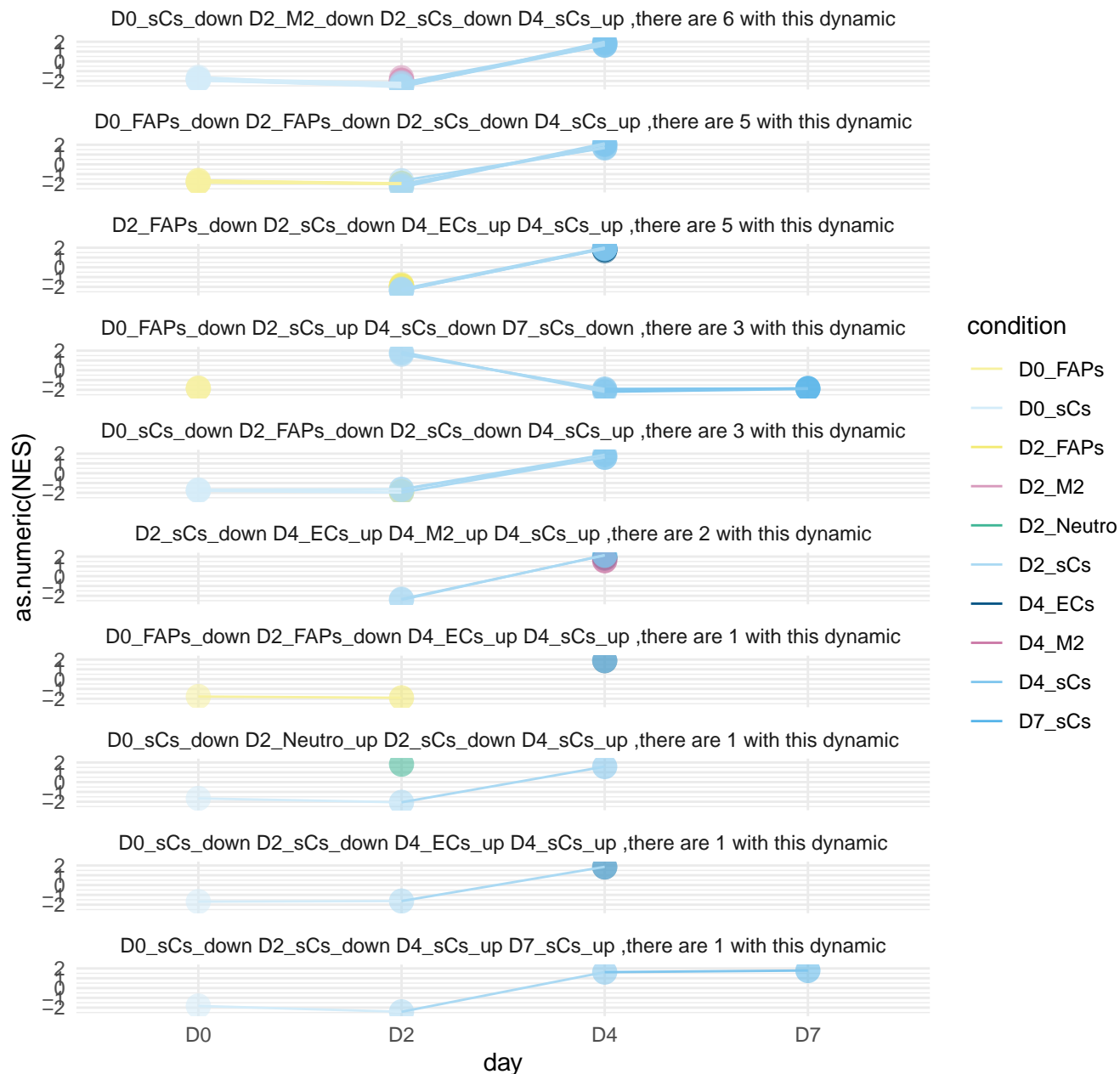
- D0\_FAPs
- D0\_sCs
- D2\_FAPs
- D2\_sCs
- D4\_EC\_s
- D4\_M2
- D4\_sCs
- D7\_sCs

day

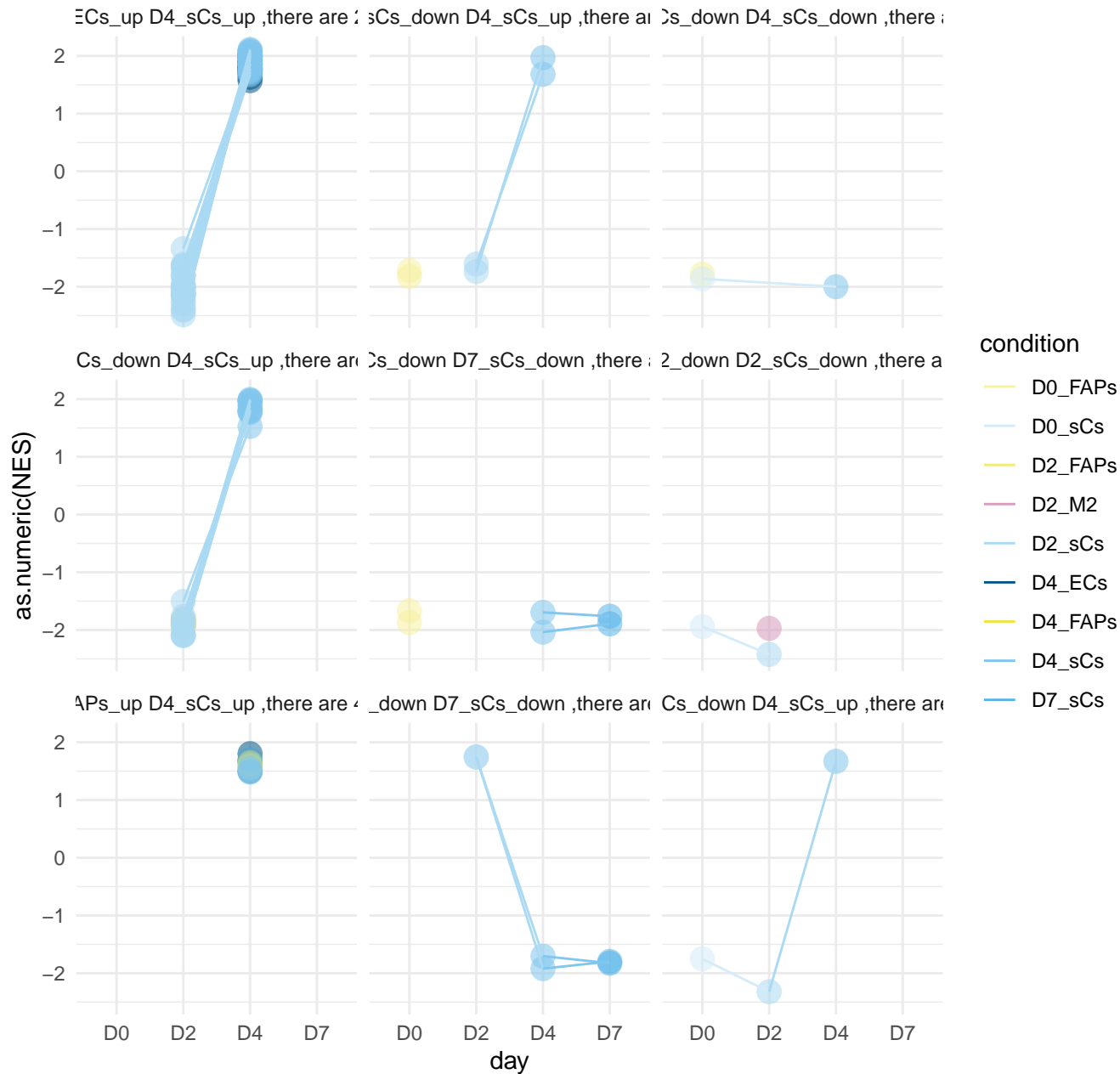
# Pathways with 5 conditions enriched



# Pathways with 4 conditions enriched



# Pathways with 3 conditions enriched



# Pathways with 2 conditions enriched

