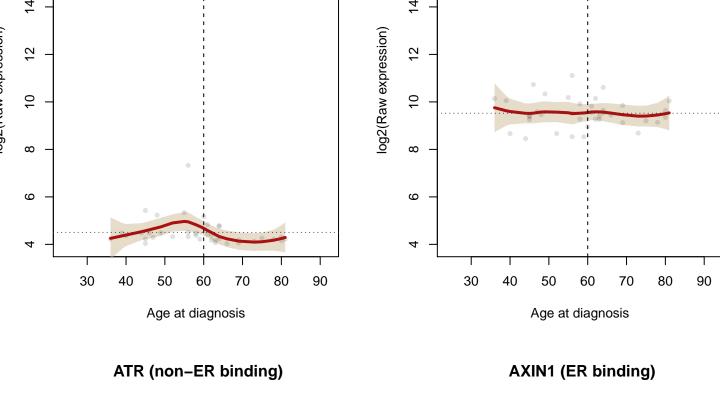
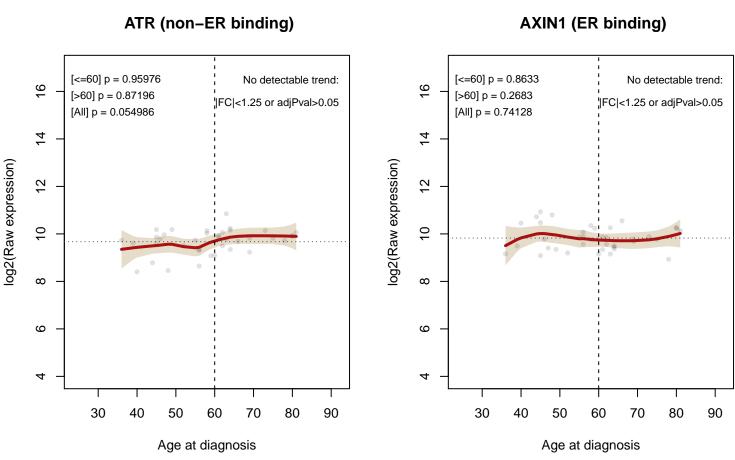


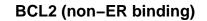
#### ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.24824No detectable trend: [<=60] p = 0.6634616 16 [>60] p = 0.16117 [>60] p = 0.38732 |FC|<1.25 or adjPval>0.05 [AII] p = 0.22409[AII] p = 0.70794 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50



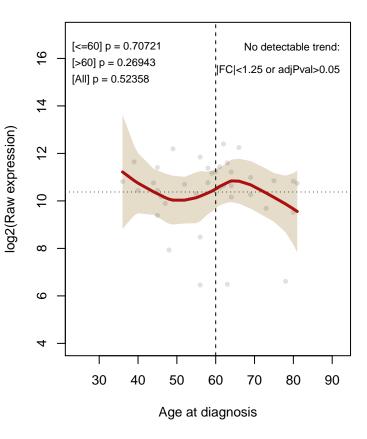
No detectable trend:

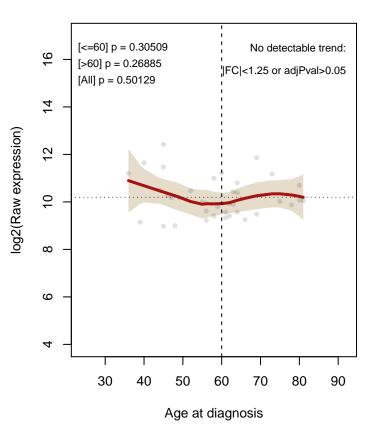
|FC|<1.25 or adjPval>0.05





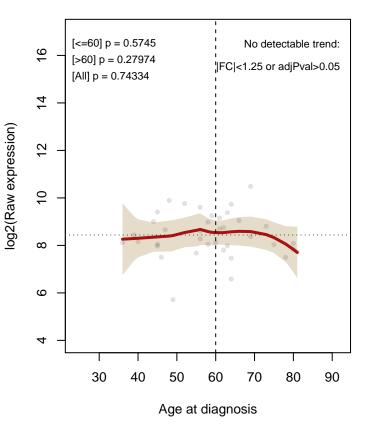
#### BCL3 (non-ER binding)

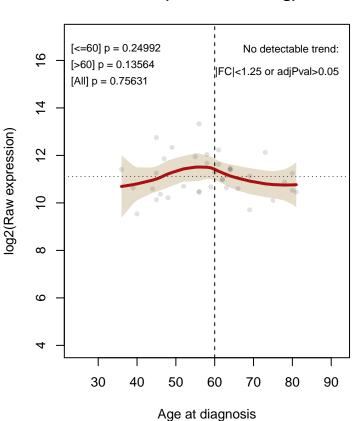




### **BIRC5** (non-ER binding)

**BMI1 (non-ER binding)** 





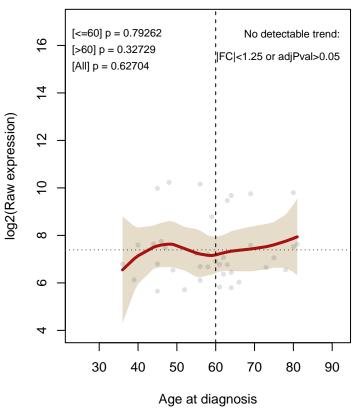
#### BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.49465No detectable trend: [<=60] p = 0.16945No detectable trend: 16 16 [>60] p = 0.19758 [>60] p = 0.04659 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.60877[All] p = 0.35894 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 $\infty$ ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.33664No detectable trend: [<=60] p = 0.68954No detectable trend: 16 16 [>60] p = 0.1574 [>60] p = 0.31832 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.027046[All] p = 0.97584 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90

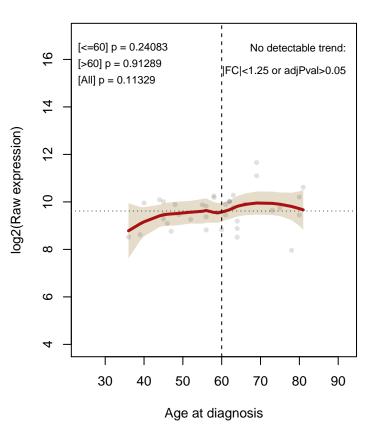
Age at diagnosis

Age at diagnosis



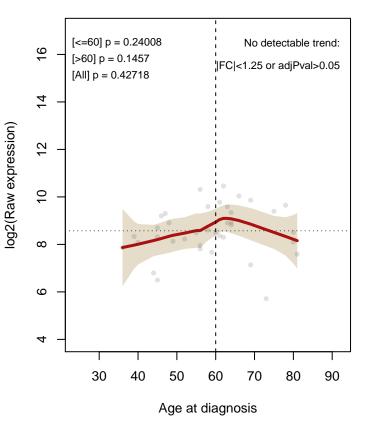
#### CBX4 (non-ER binding)

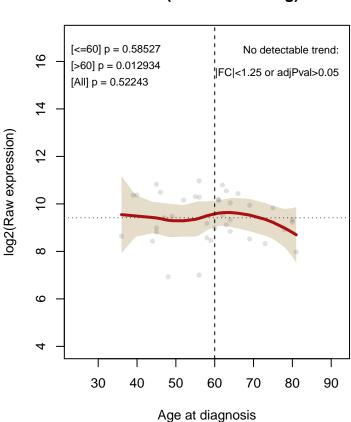


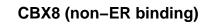


CBX6 (non-ER binding)

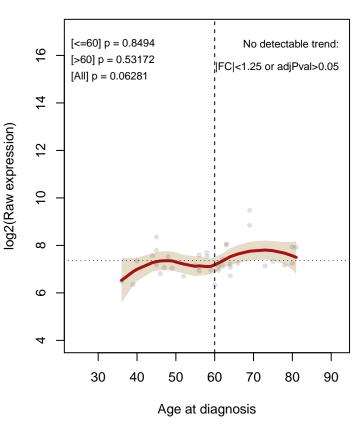
**CBX7 (non-ER binding)** 

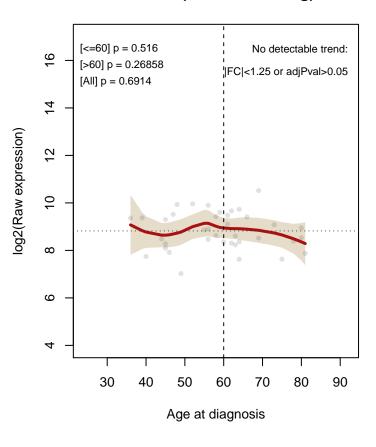






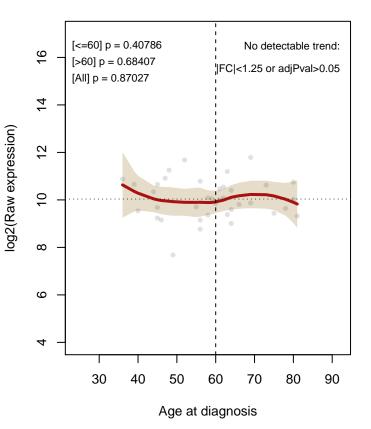
#### CCNA2 (non-ER binding)

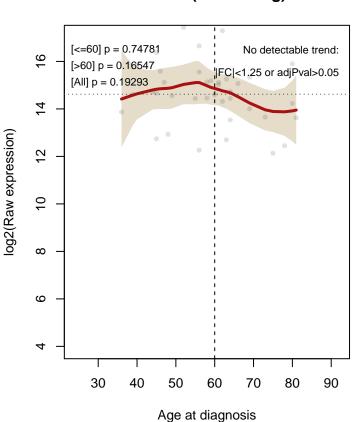


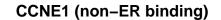


### CCNB1 (non-ER binding)

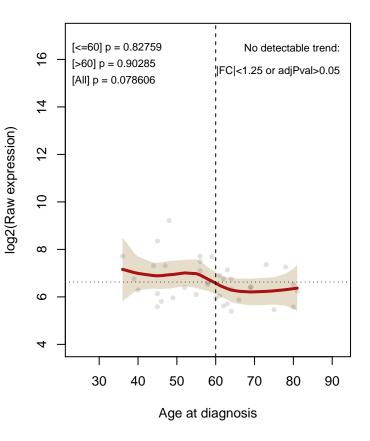
#### **CCND1 (ER binding)**

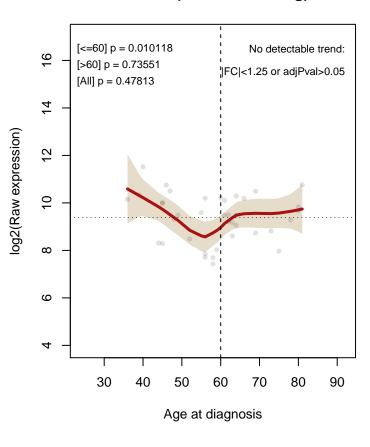






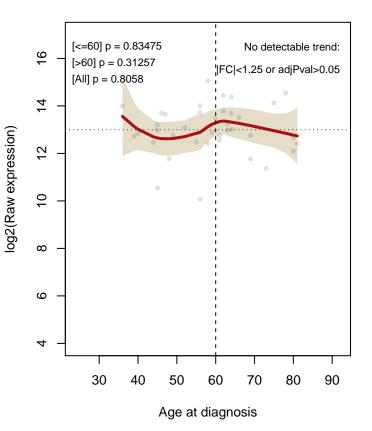
#### CD163 (non-ER binding)

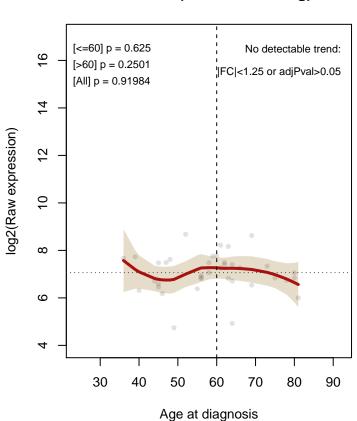




CD44 (non-ER binding)

CDC25C (non-ER binding)

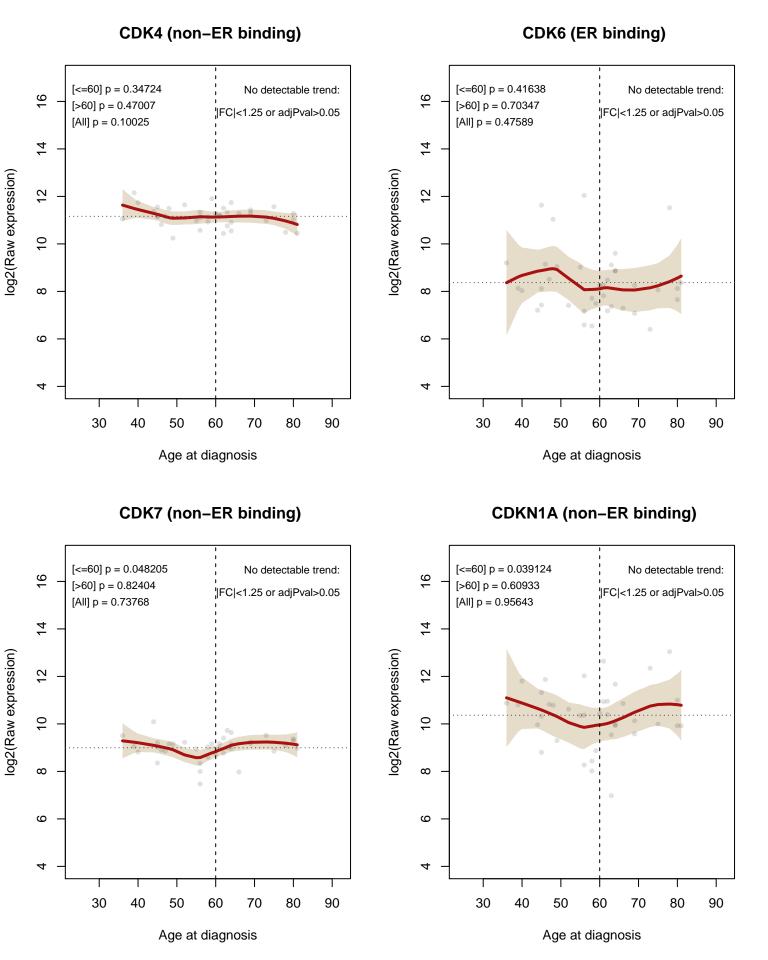




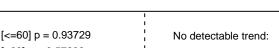
#### CDH1 (non-ER binding) CDH3 (ER binding) [<=60] p = 0.49491No detectable trend: [<=60] p = 0.28692No detectable trend: 16 16 [>60] p = 0.57918 [>60] p = 0.86282 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.063768[All] p = 0.125564 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CDK1 (non-ER binding) CDK2 (non-ER binding) [<=60] p = 0.4043No detectable trend: [<=60] p = 0.066856No detectable trend: 16 16 [>60] p = 0.045925 [>60] p = 0.14154 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.6235[AII] p = 0.990064 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90

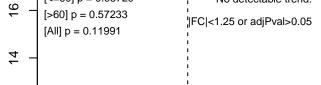
Age at diagnosis

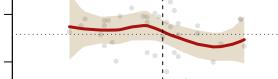
Age at diagnosis



#### CDKN1B (non-ER binding)







log2(Raw expression)

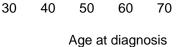
12

10

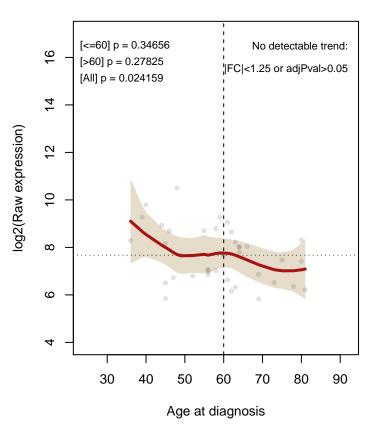
ω

9





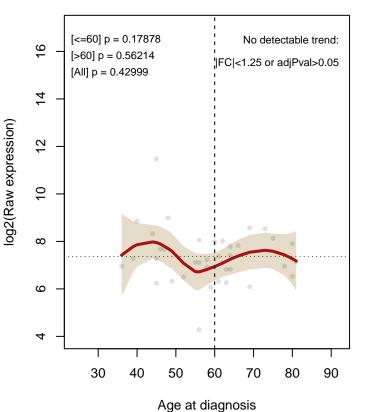
### CDKN1C (non-ER binding)



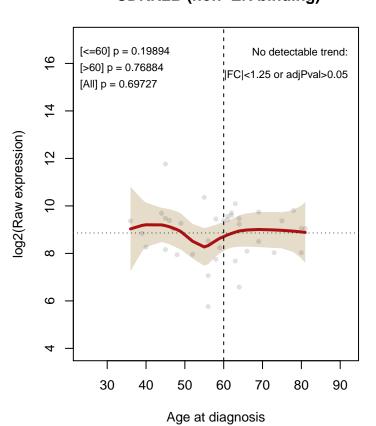
#### CDKN2A (non-ER binding)

80

90

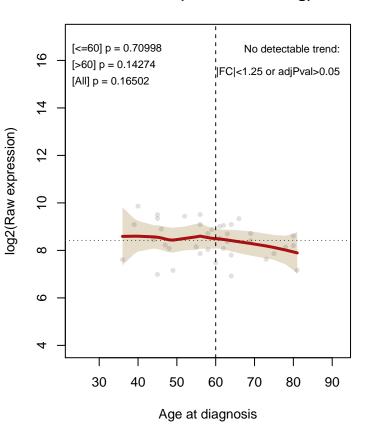


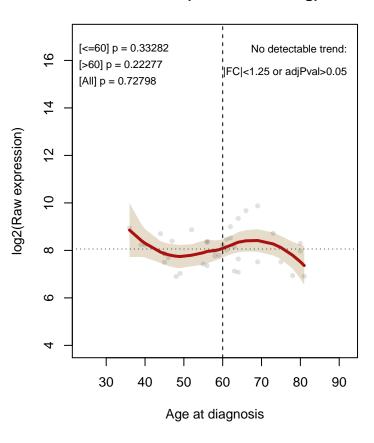
#### CDKN2B (non-ER binding)



#### CDKN2C (non-ER binding)

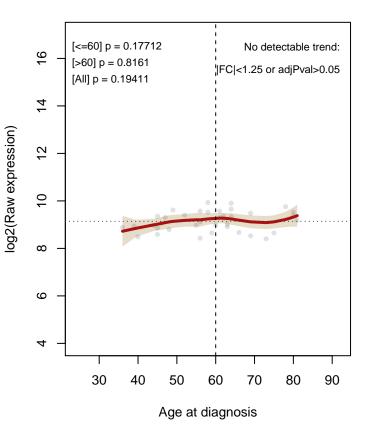
#### CDKN2D (non-ER binding)

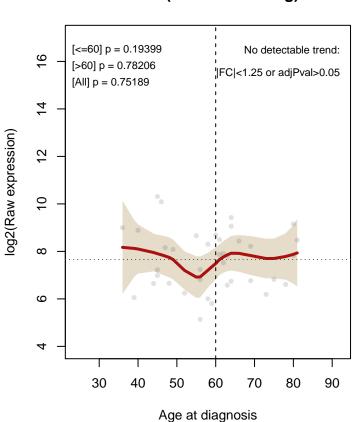




# CHUK (non-ER binding)

#### CIITA (non-ER binding)





#### CLDN3 (non-ER binding)

[<=60] p = 0.78941

[>60] p = 0.14229

[All] p = 0.95541

30

30

40

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60

Age at diagnosis

70

80

90

40

50

16

4

12

19

ω

9

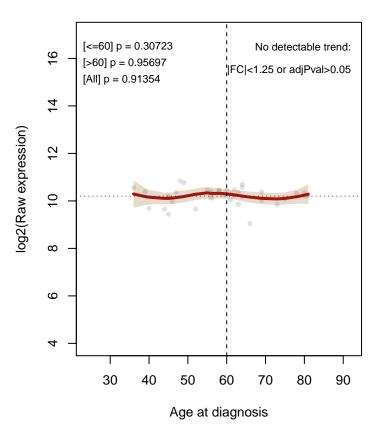
log2(Raw expression)

log2(Raw expression)

No detectable trend:

|FC|<1.25 or adjPval>0.05

#### CREB1 (non-ER binding)



### **CRYAB** (non-ER binding)

Age at diagnosis

60

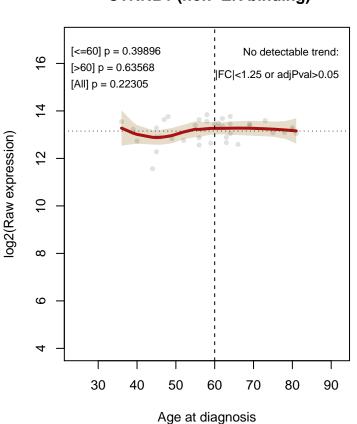
70

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90

# [<=60] p = 0.10057No detectable trend: 16 [>60] p = 0.90388|FC|<1.25 or adjPval>0.05 [All] p = 0.558144 12 10 ω 9

#### CTNNB1 (non-ER binding)



#### **DLC1 (ER binding)** DMAP1 (non-ER binding) [<=60] p = 0.72135No detectable trend: [<=60] p = 0.74909No detectable trend: 16 16 [>60] p = 0.22298 [>60] p = 0.18199 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.038881[All] p = 0.461554 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.11788No detectable trend: [<=60] p = 0.67542No detectable trend: 16 16 [>60] p = 0.77413 [>60] p = 0.38655 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.92136[AII] p = 0.566054 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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60

Age at diagnosis

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# **DNMT3B** (non-ER binding) [<=60] p = 0.30572No detectable trend: 16 [>60] p = 0.19837 |FC|<1.25 or adjPval>0.05 [All] p = 0.997194 log2(Raw expression) 12 10

ω

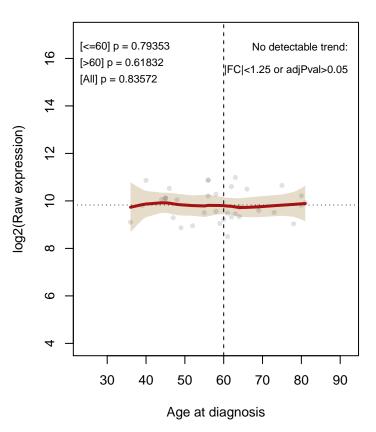
9

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#### **DVL1 (non-ER binding)**



E2F1 (non-ER binding)

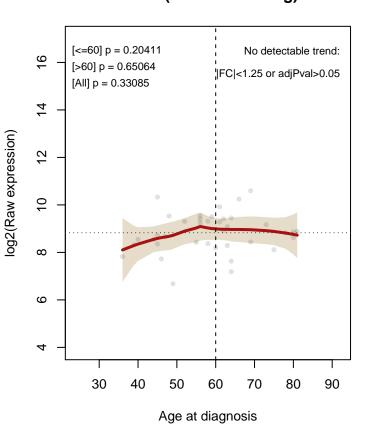
Age at diagnosis

60

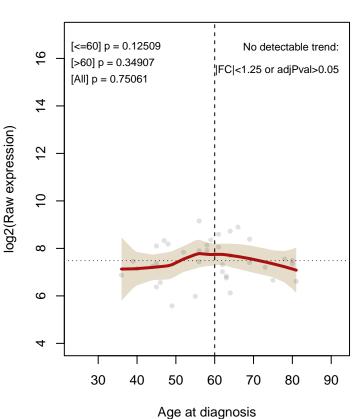
70

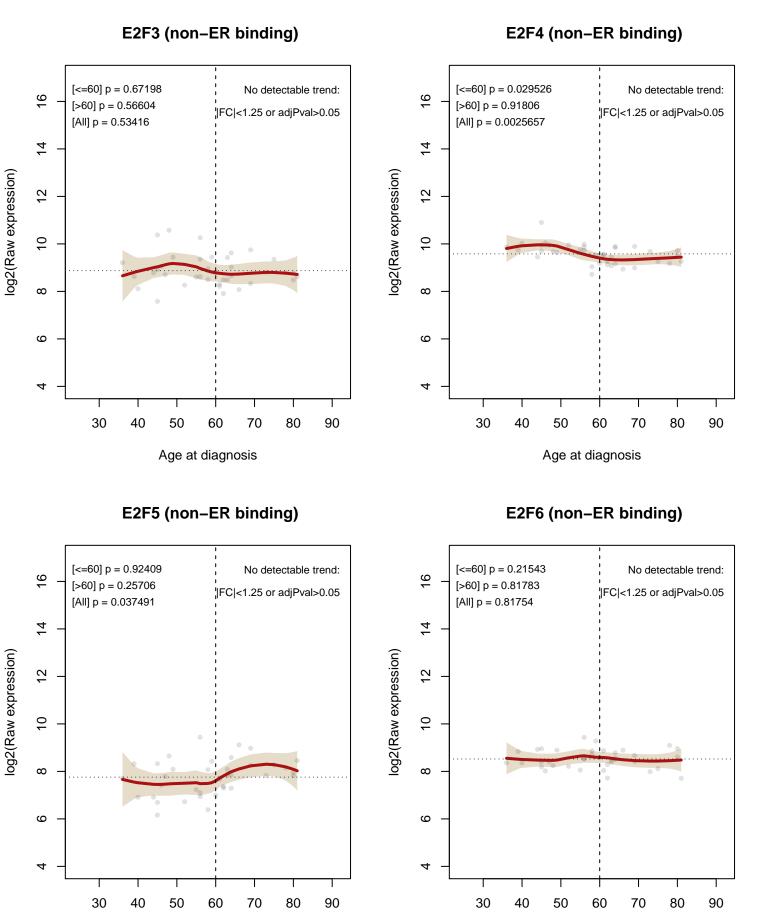
80

90



E2F2 (non-ER binding)





Age at diagnosis

Age at diagnosis

#### E2F7 (non-ER binding) E2F8 (non-ER binding) [<=60] p = 0.052046No detectable trend: [<=60] p = 0.12972 No detectable trend: 16 16 [>60] p = 0.018326 [>60] p = 0.36429 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.90135[All] p = 0.950184 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **EED (non-ER binding)** EGFR (non-ER binding) [<=60] p = 0.34369No detectable trend: [<=60] p = 0.49317No detectable trend: 16 16 [>60] p = 0.79826 [>60] p = 0.4028 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.80066[All] p = 0.158624 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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60

Age at diagnosis

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60

Age at diagnosis

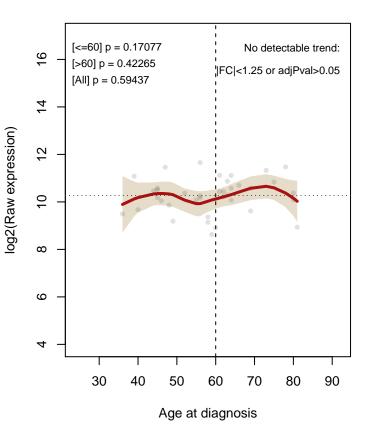
70

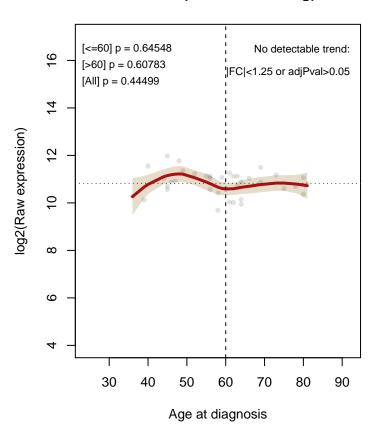
80

90



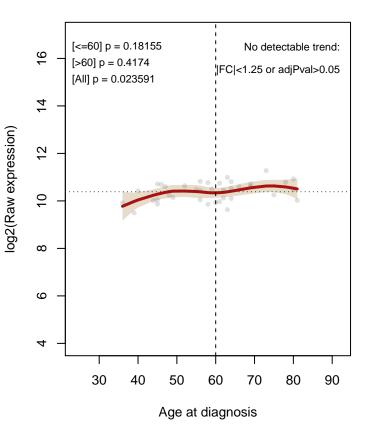
#### **EHMT2** (non-ER binding)

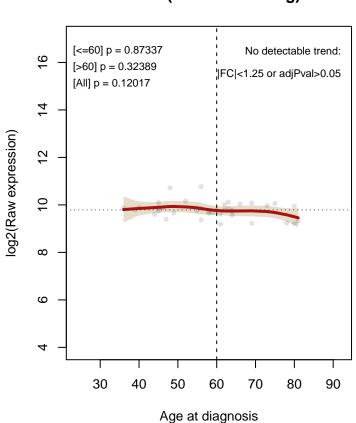




**ELAC2 (non-ER binding)** 

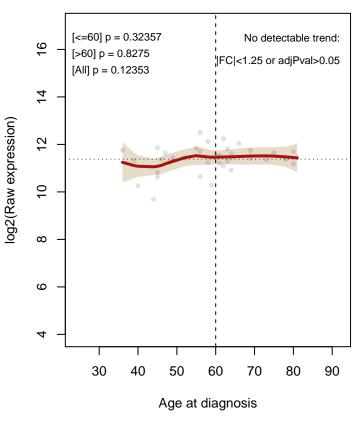
**ELK1 (non-ER binding)** 

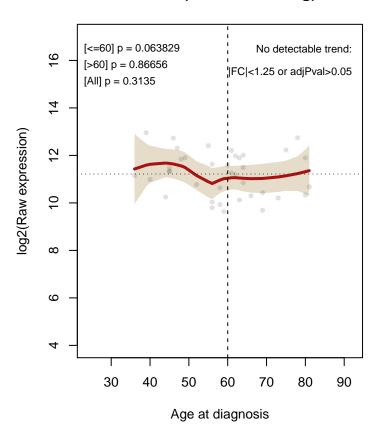






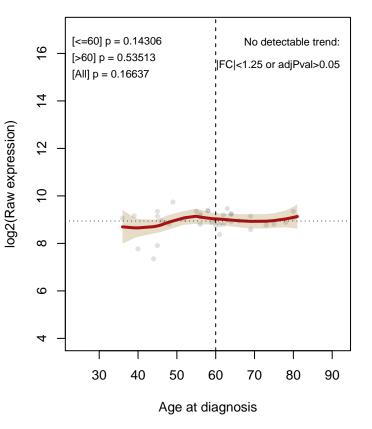
#### **EPAS1** (non-ER binding)

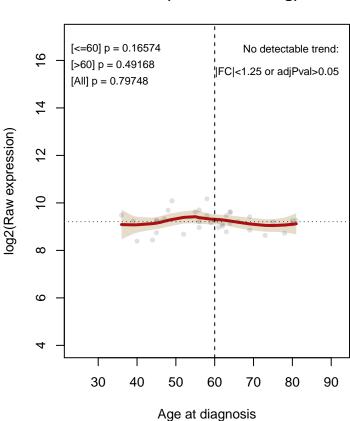




**EPC1 (non-ER binding)** 

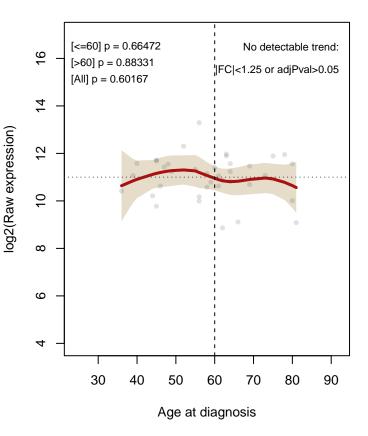
**EPC2 (non-ER binding)** 

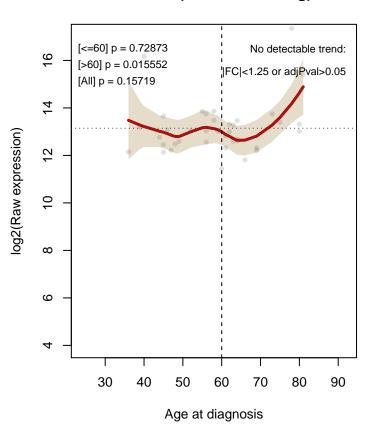






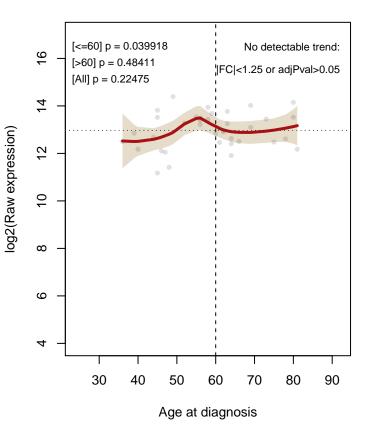
#### **ERBB2** (non-ER binding)

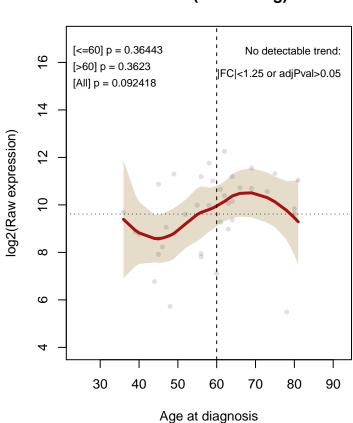


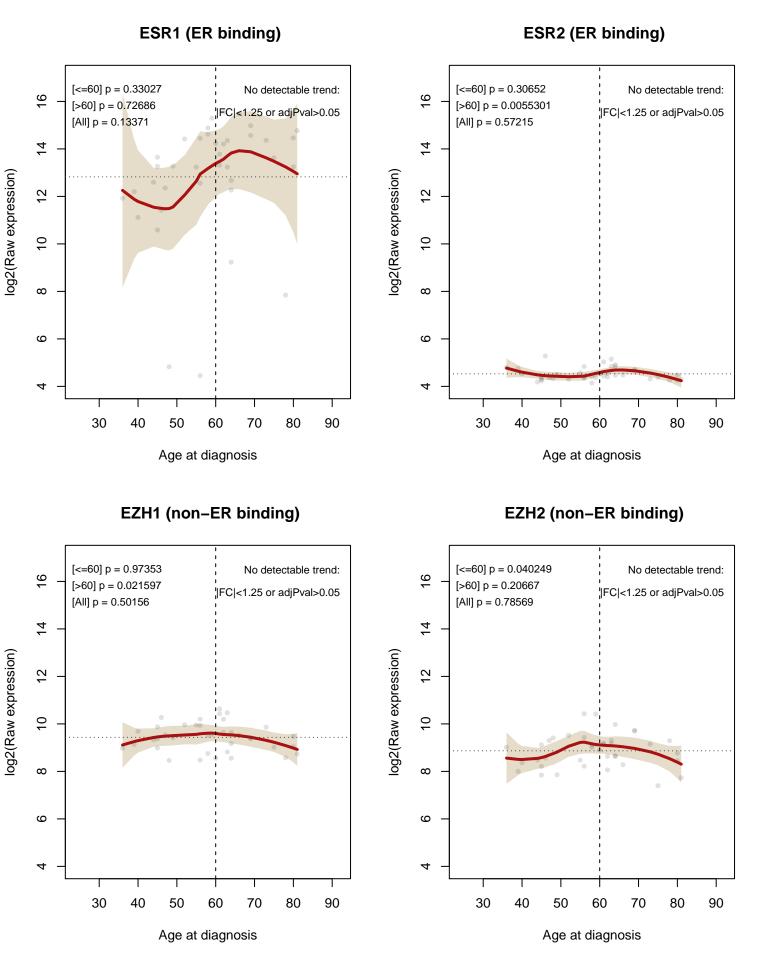


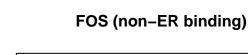
### ERBB3 (non-ER binding)

**ERBB4 (ER binding)** 

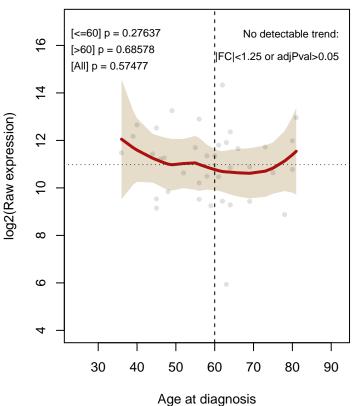


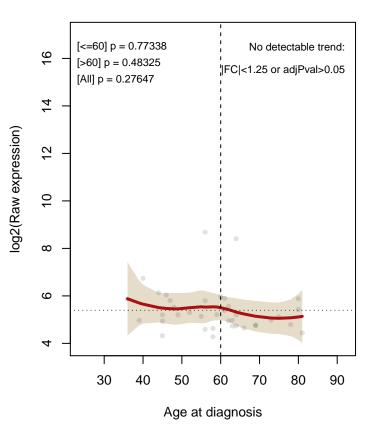






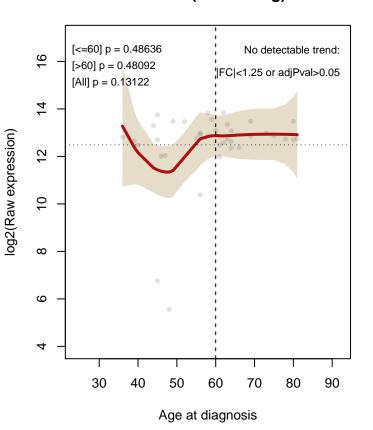
### FOSL1 (non-ER binding)

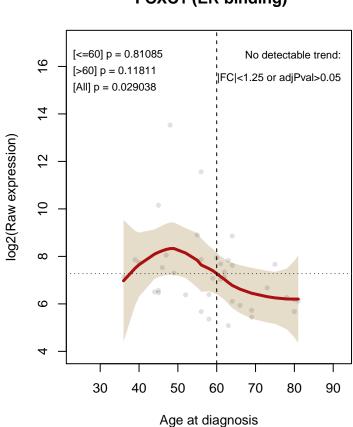


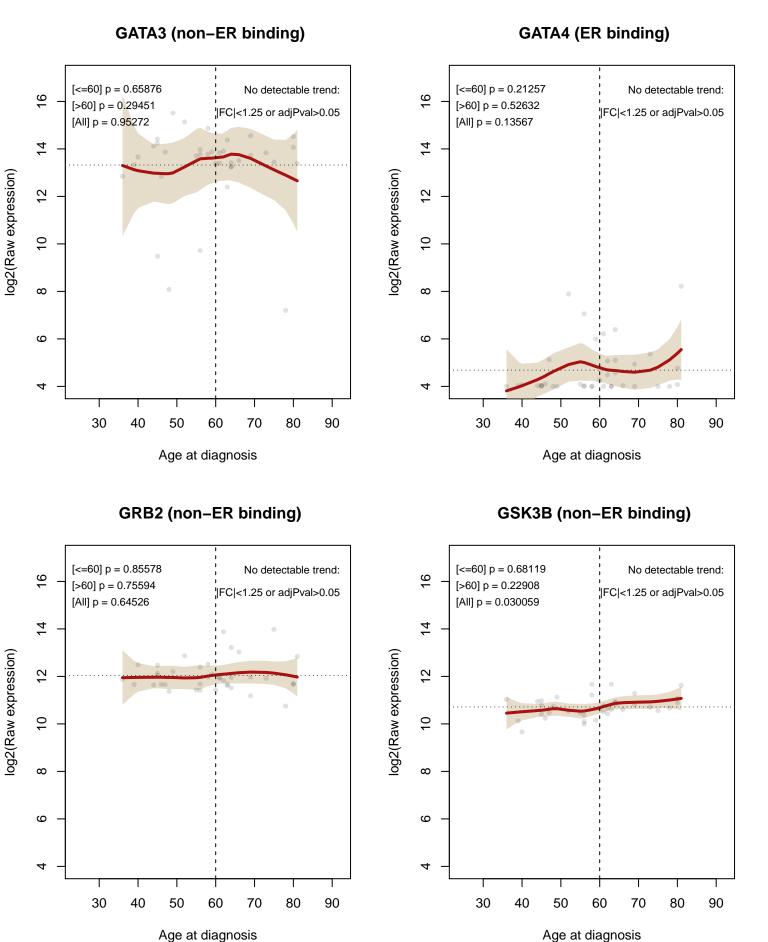


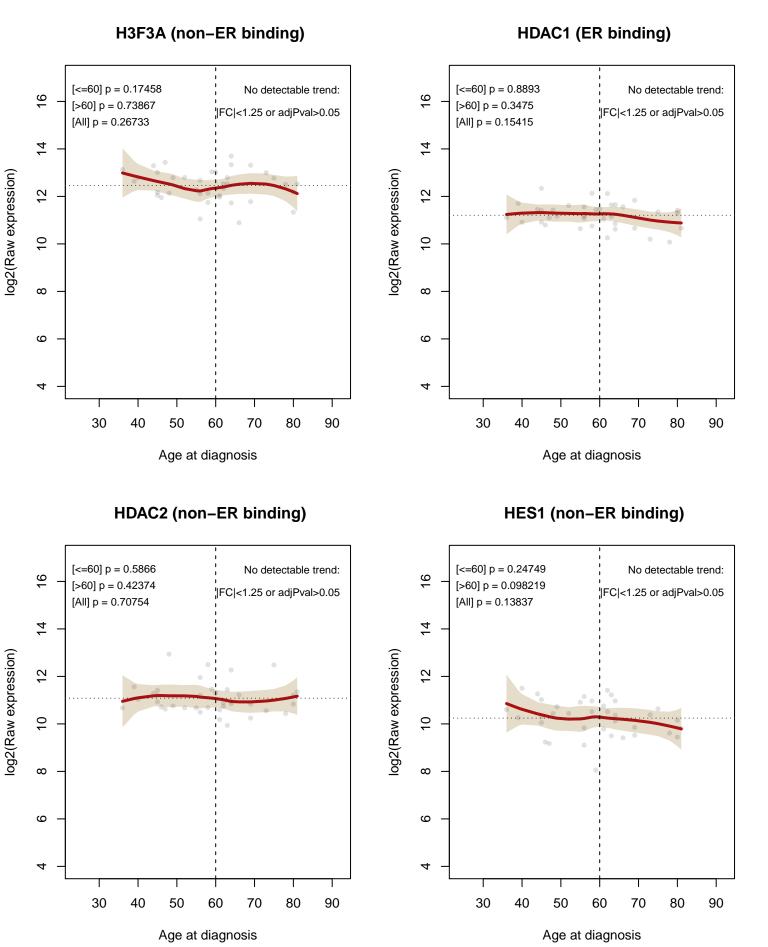
FOXA1 (ER binding)

FOXC1 (ER binding)



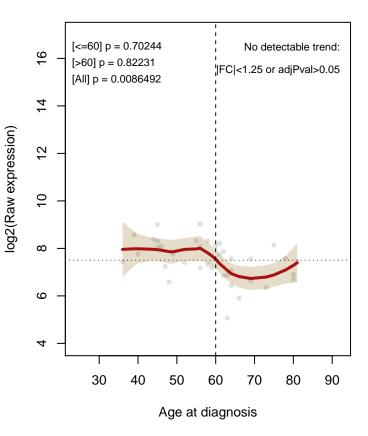


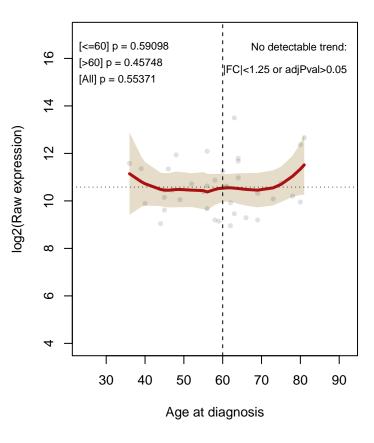






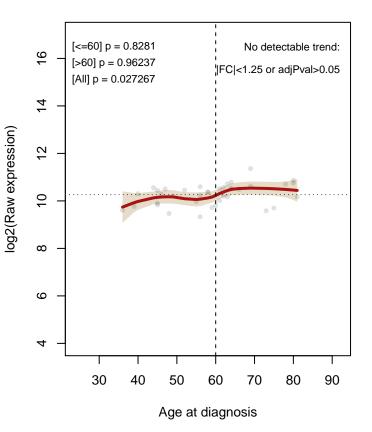
#### HIF1A (non-ER binding)

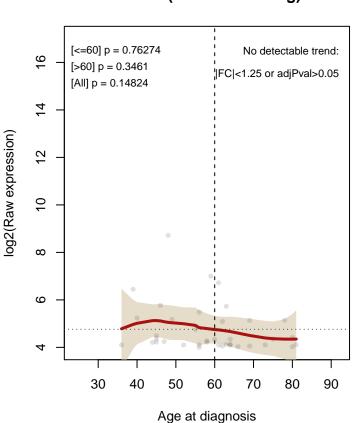




### HIF1AN (non-ER binding)

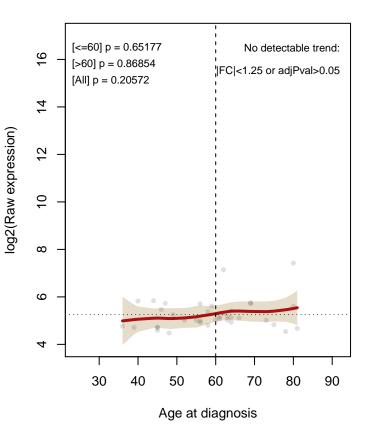
HIF3A (non-ER binding)

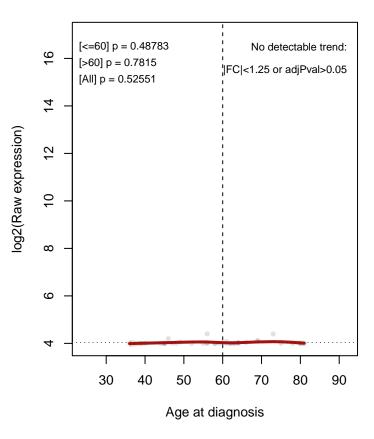




#### **HNF1A** (non-ER binding)

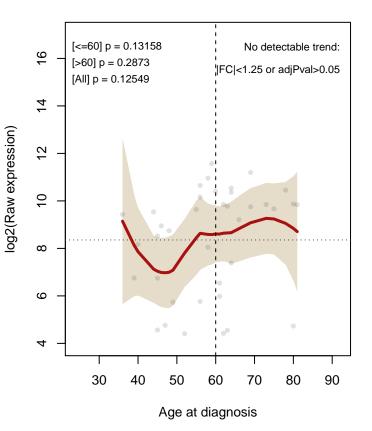
#### HNF1B (non-ER binding)

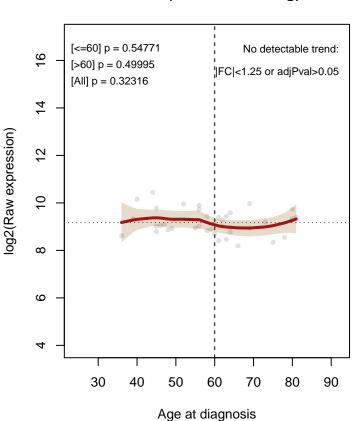




### **HOXC10 (non-ER binding)**

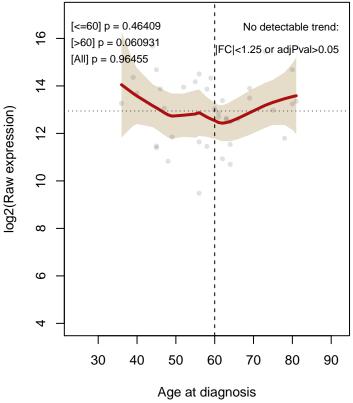
HRAS (non-ER binding)

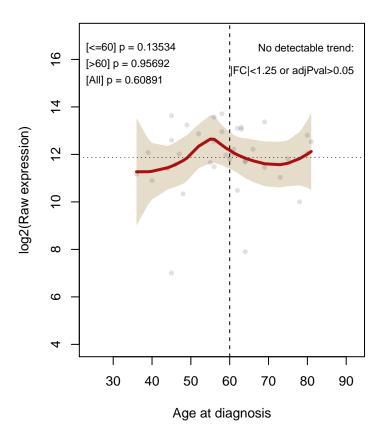




# HSPB1 (non-ER binding)

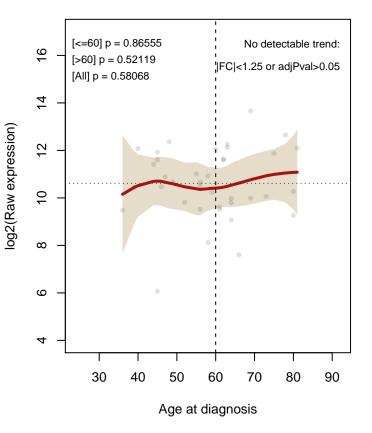
#### IGF1R (ER binding)

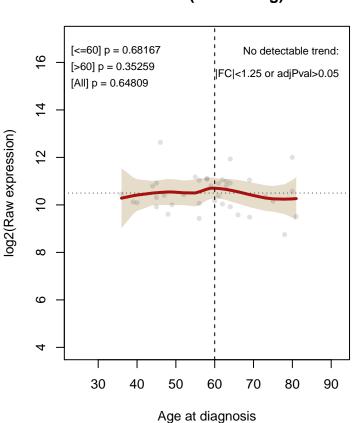




IGFBP2 (non-ER binding)

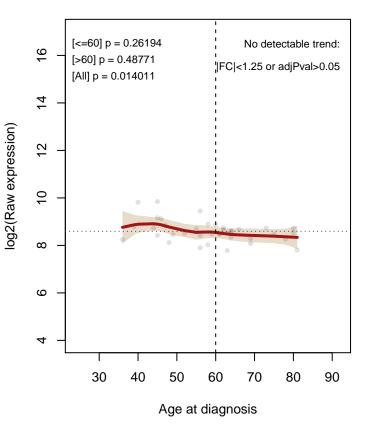
IKBKB (ER binding)

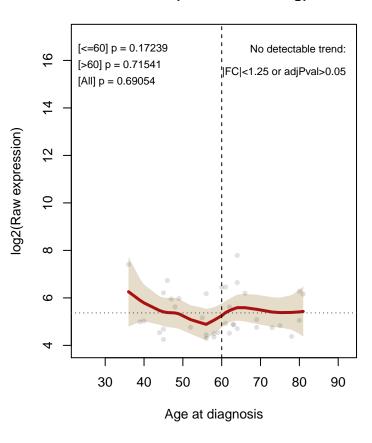






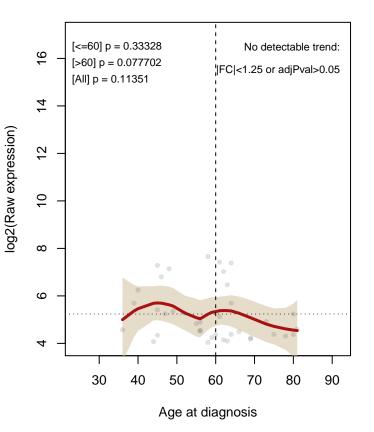
#### IL2RA (non-ER binding)

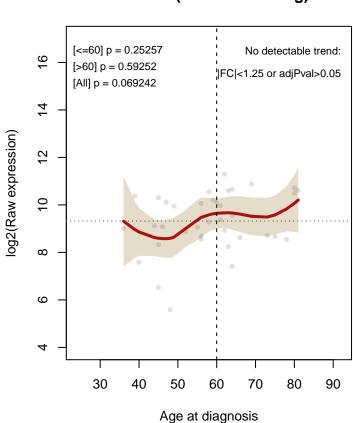


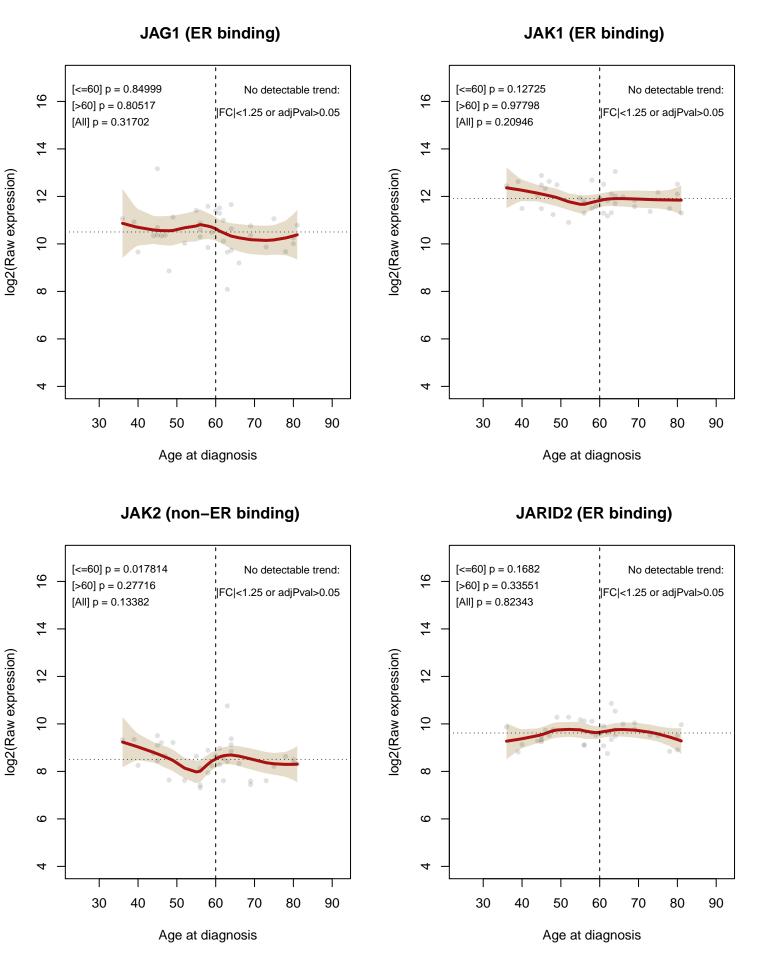


### IL6 (non-ER binding)

#### **INPP4B** (non-ER binding)

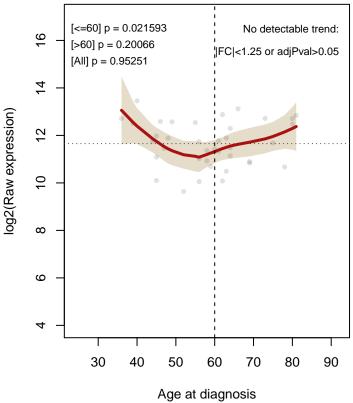


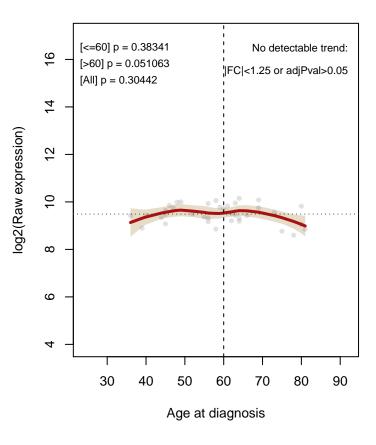






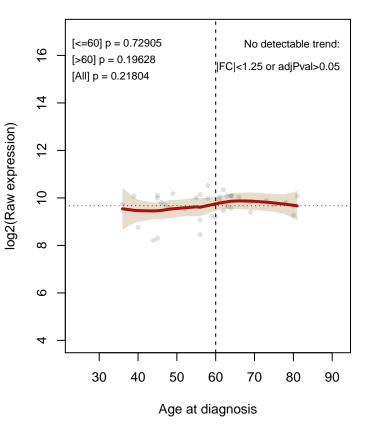
#### KDM2B (non-ER binding)

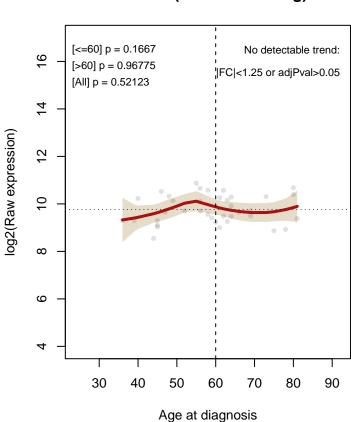




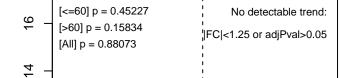
### KDM6A (non-ER binding)

KDM6B (non-ER binding)







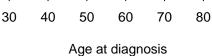




log2(Raw expression)

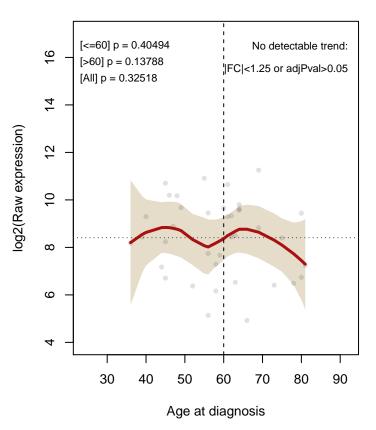
ω

9



90

### KIT (non-ER binding)

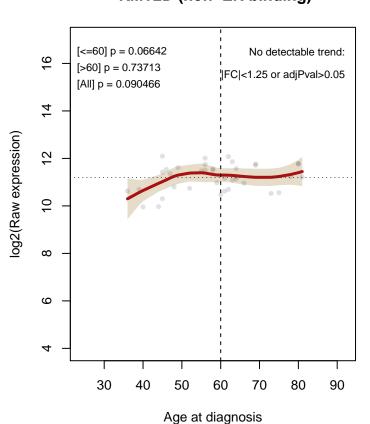


### KMT2C (non-ER binding)

#### [<=60] p = 0.12453No detectable trend: 16 [>60] p = 0.83426 |FC|<1.25 or adjPval>0.05 [All] p = 0.123224 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

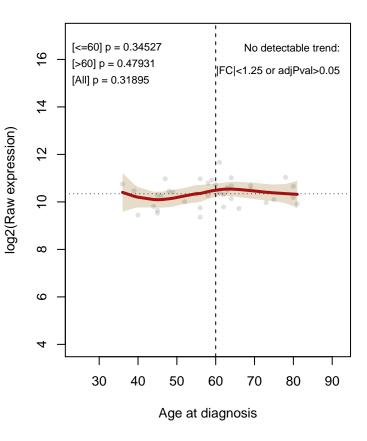
Age at diagnosis

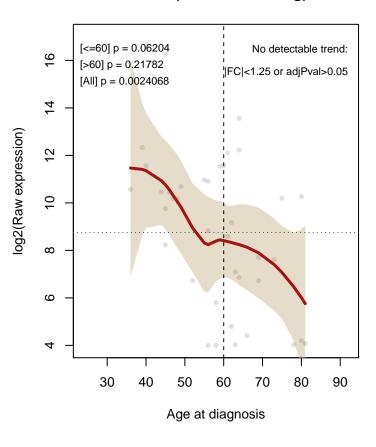
#### KMT2D (non-ER binding)





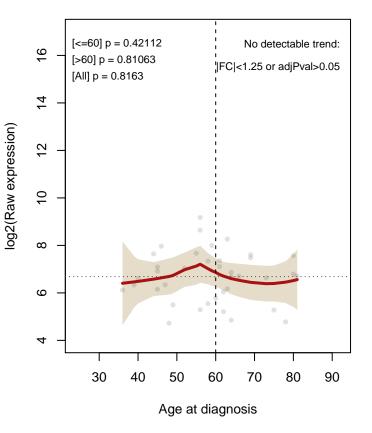
#### KRT5 (non-ER binding)

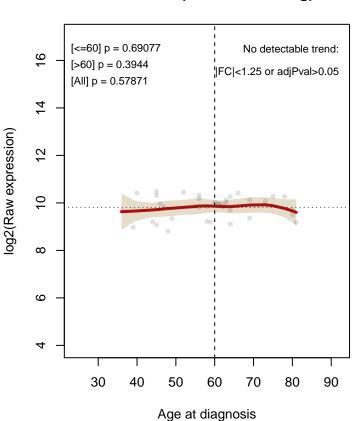




### L3MBTL1 (non-ER binding)

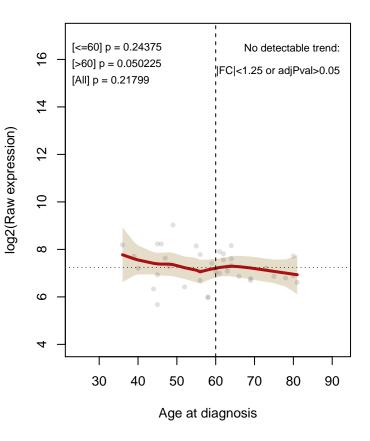
#### L3MBTL2 (non-ER binding)

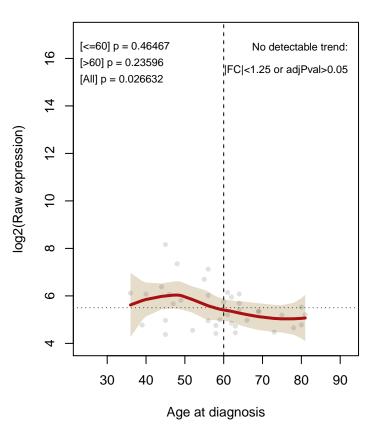




#### L3MBTL3 (ER binding)

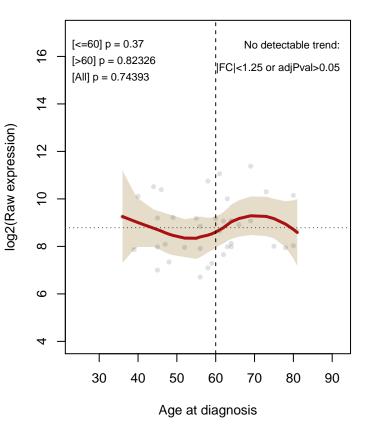
### L3MBTL4 (non-ER binding)

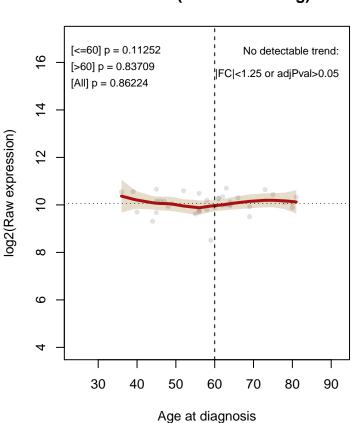




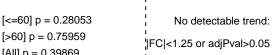
### LEF1 (non-ER binding)

MAP2K1 (non-ER binding)





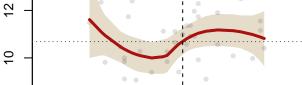
#### MAP3K1 (non-ER binding)





16

log2(Raw expression)





Age at diagnosis

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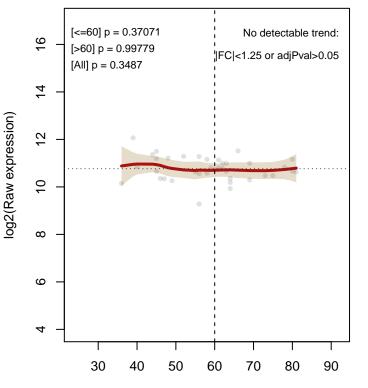
# MAPK3 (non-ER binding)

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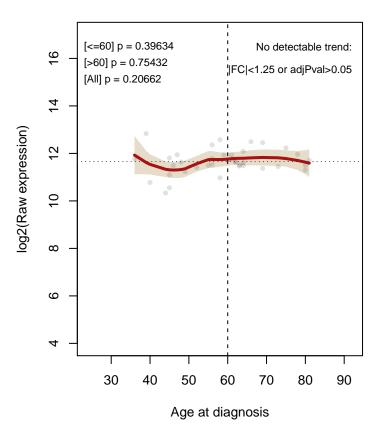
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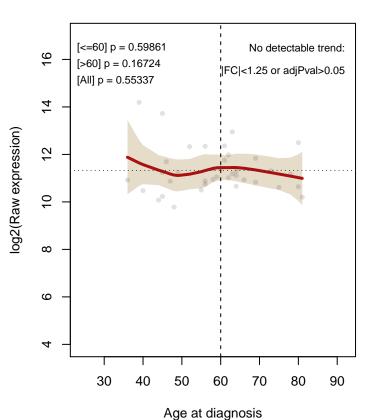


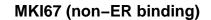
Age at diagnosis

#### MAPK1 (non-ER binding)

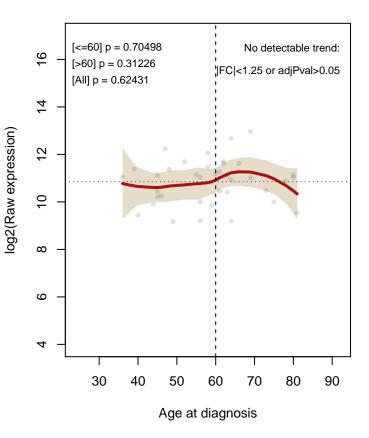


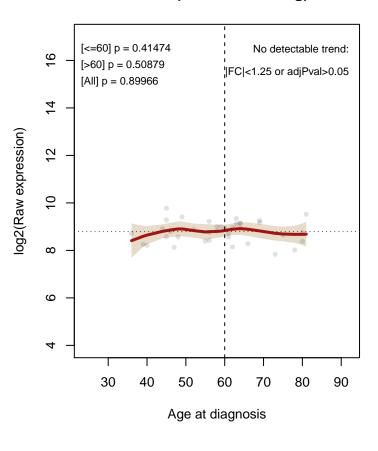
#### MDM2 (non-ER binding)





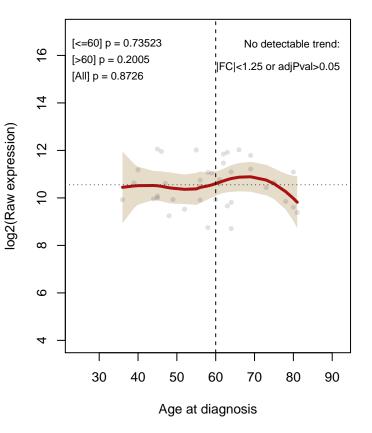
#### MTF2 (non-ER binding)

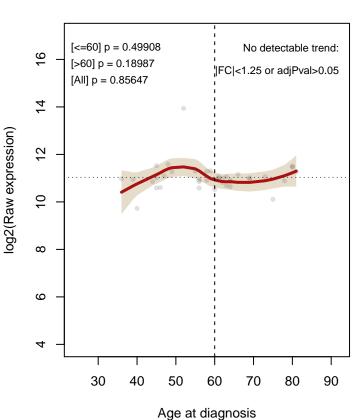


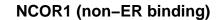


# MYC (non-ER binding)

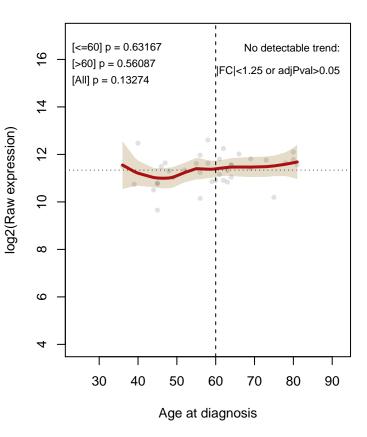
#### NCOA6 (non-ER binding)

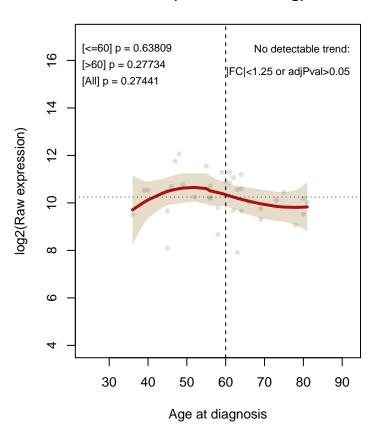






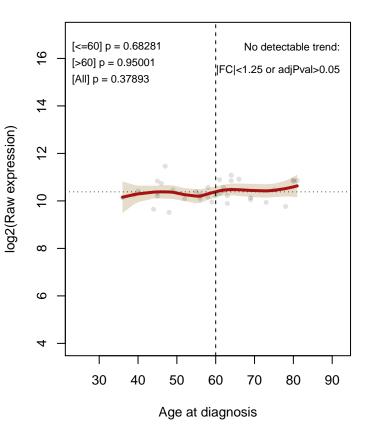
#### **NES (non-ER binding)**

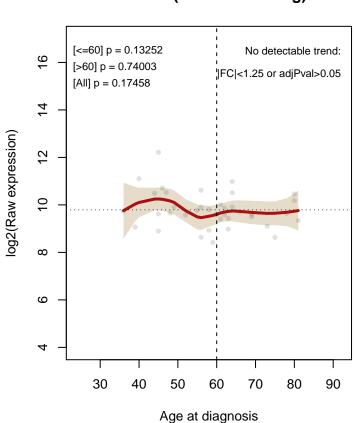




# NFKB1 (non-ER binding)

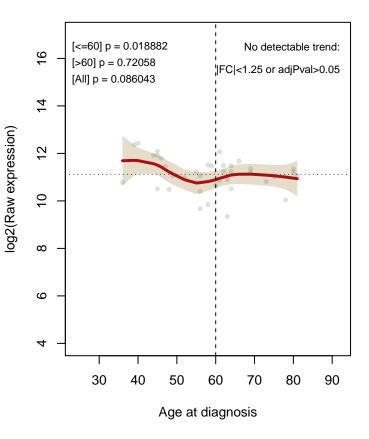
# NFKB2 (non-ER binding)

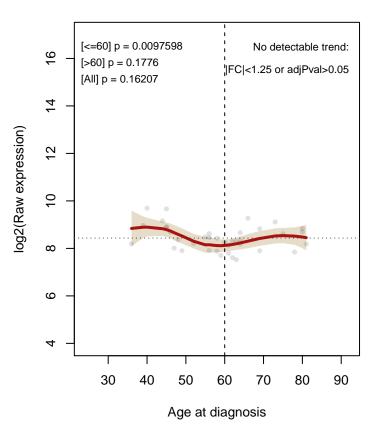






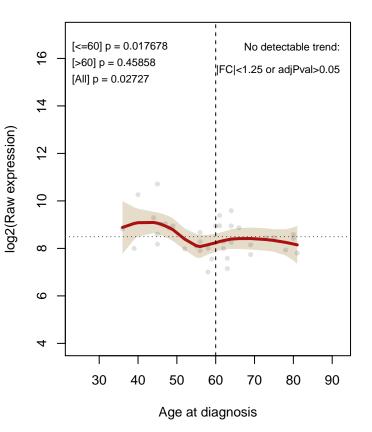
# NFKBIB (non-ER binding)

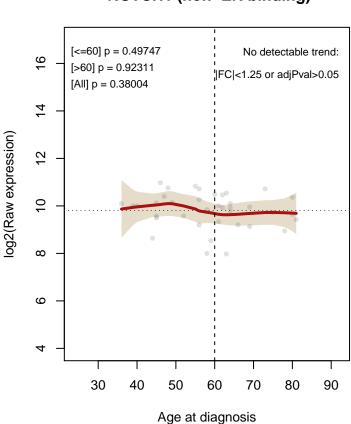




# **NFKBIE** (non-ER binding)

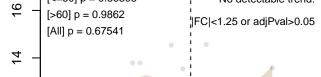
# NOTCH1 (non-ER binding)

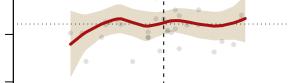




#### NOTCH2 (non-ER binding)

# [<=60] p = 0.56598No detectable trend:







log2(Raw expression)

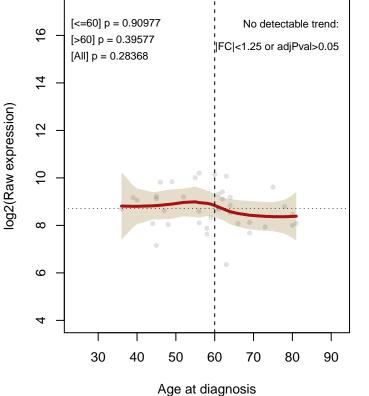
12

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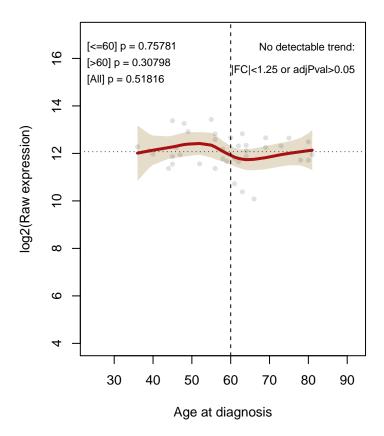
#### 30 40 50 60 70 80 90

# NOTCH4 (non-ER binding)

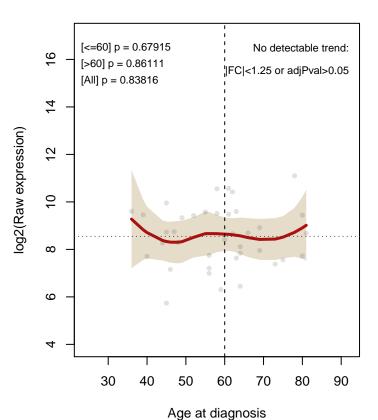
Age at diagnosis

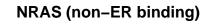


# NOTCH3 (non-ER binding)

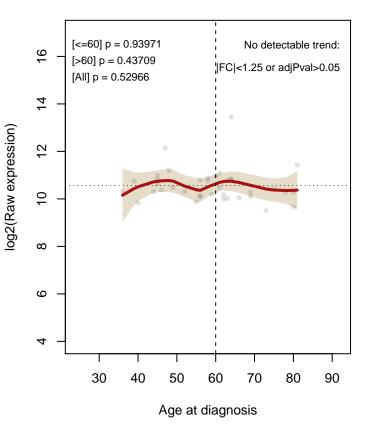


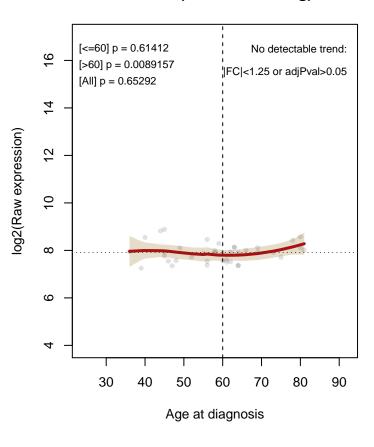
# NR4A2 (non-ER binding)





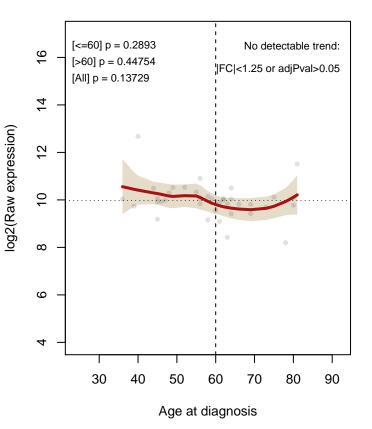
#### PCGF1 (non-ER binding)

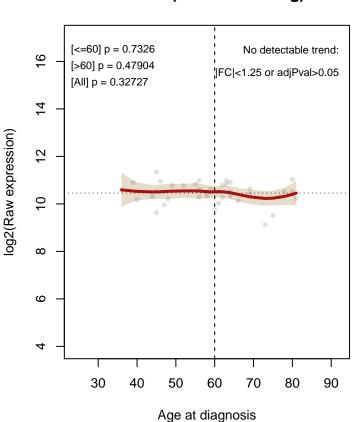




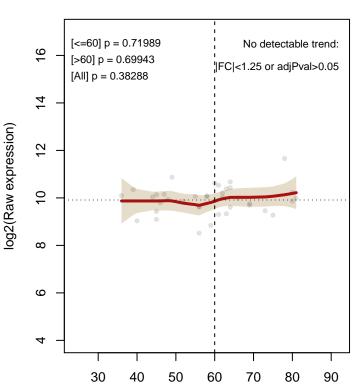
# PCGF2 (non-ER binding)

# PCGF3 (non-ER binding)

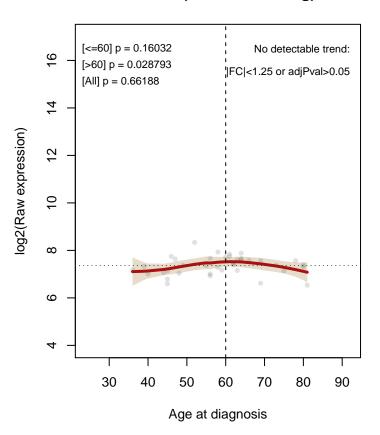




#### PCGF5 (non-ER binding)

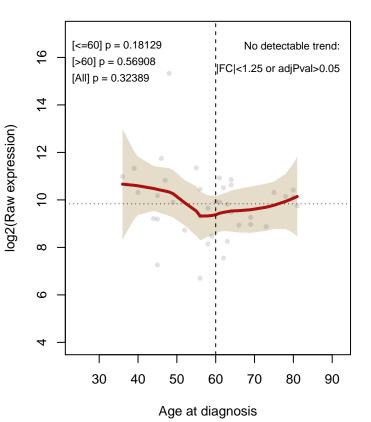


#### PCGF6 (non-ER binding)

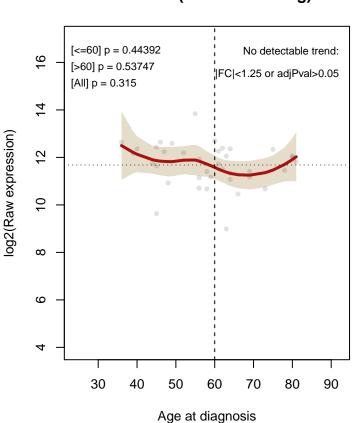


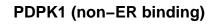
# PDGFRA (non-ER binding)

Age at diagnosis

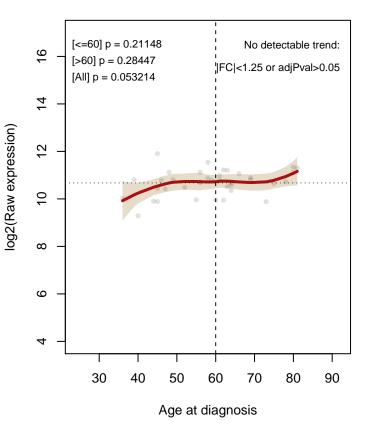


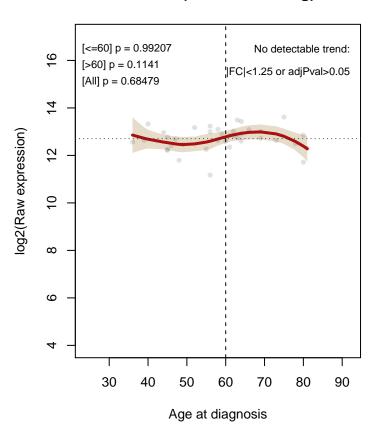
# PDGFRB (non-ER binding)





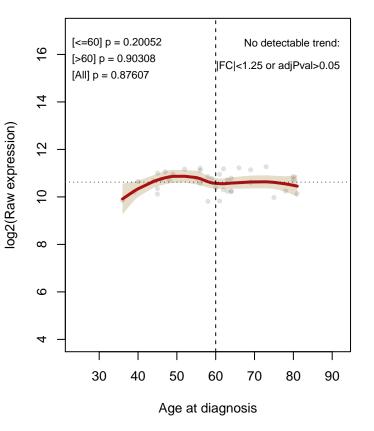
#### PEBP1 (non-ER binding)

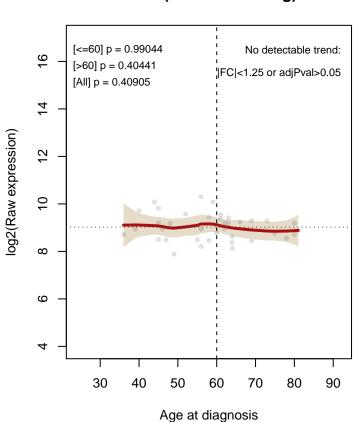


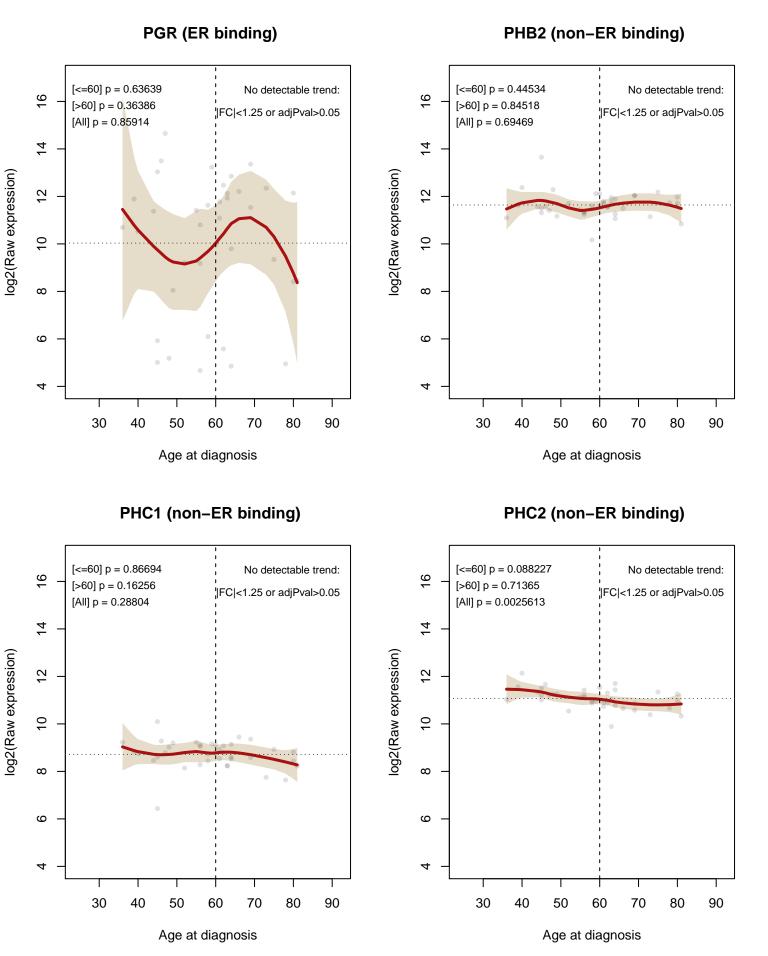


PELP1 (non-ER binding)

PGP (non-ER binding)







#### PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.31603No detectable trend: [<=60] p = 0.59844No detectable trend: 16 16 [>60] p = 0.67805 [>60] p = 0.020175 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.21409[AII] p = 0.10714 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis PHF19 (non-ER binding) PIK3CA (non-ER binding) [<=60] p = 0.67509No detectable trend: [<=60] p = 0.91592 No detectable trend: 16 16 [>60] p = 0.64492[>60] p = 0.42552 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.67107[All] p = 0.192224 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

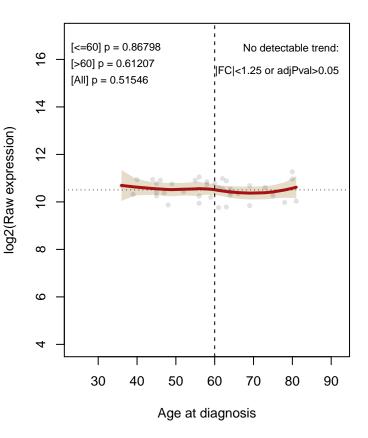
70

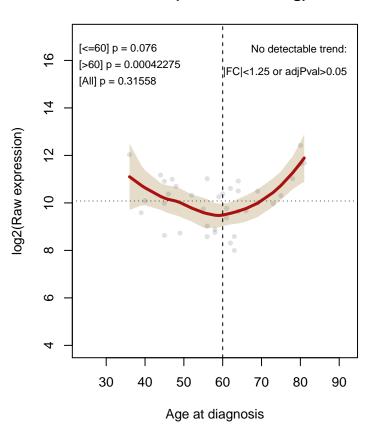
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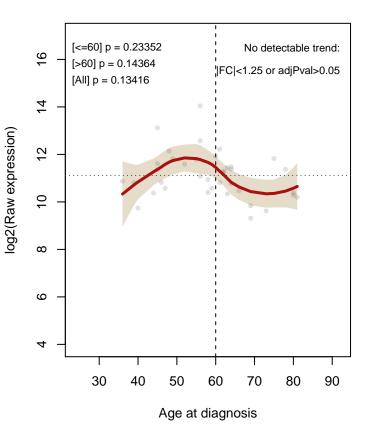
#### PLAU (non-ER binding)

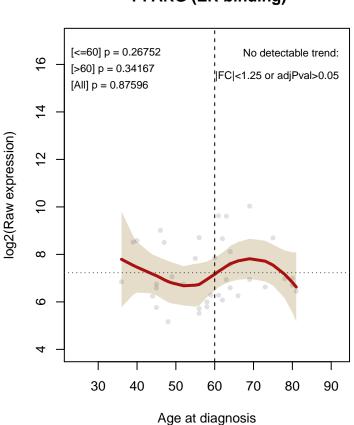


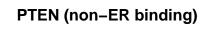


# PODXL (non-ER binding)

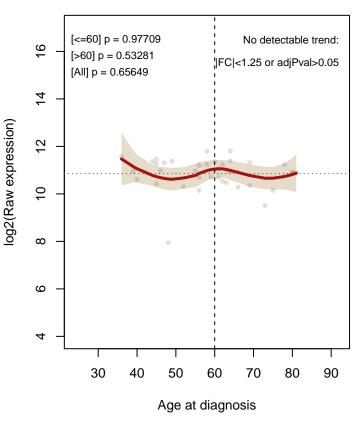
**PPARG (ER binding)** 

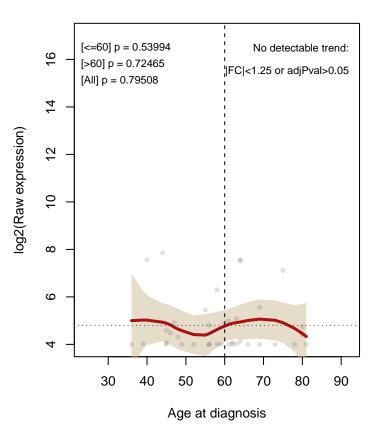






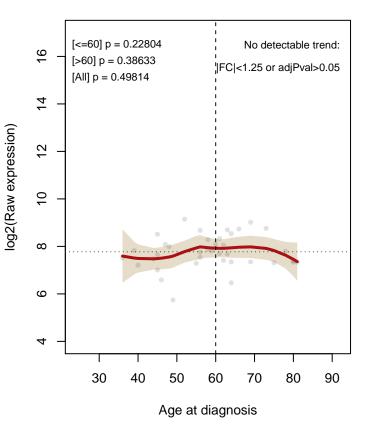
# **PYDC1** (non-ER binding)

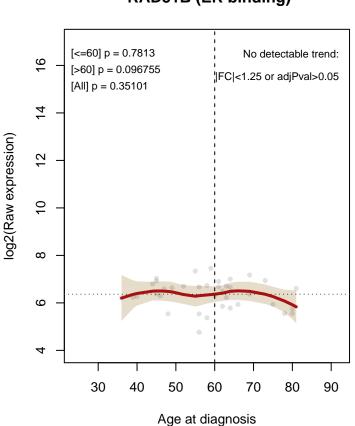




# RAD51 (non-ER binding)

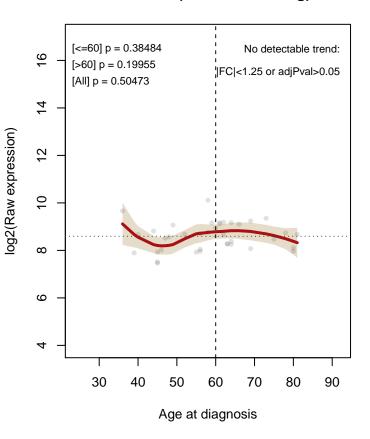
#### RAD51B (ER binding)

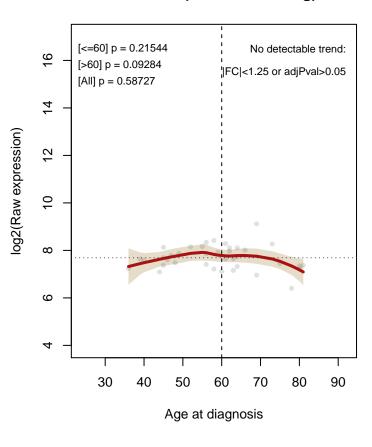




#### RAD51C (non-ER binding)

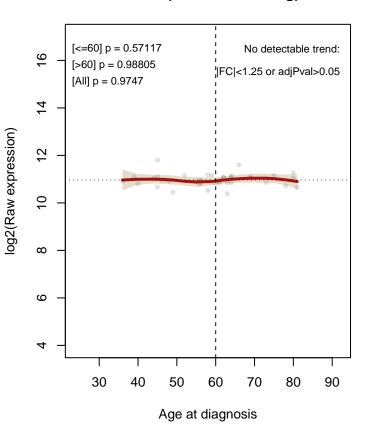
#### RAD51D (non-ER binding)

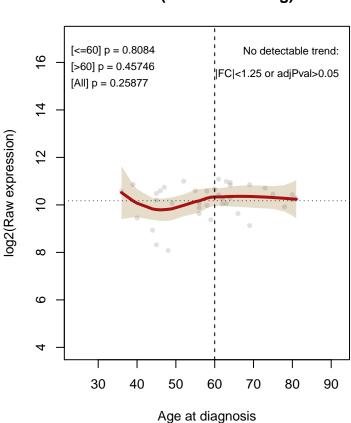




# RAF1 (non-ER binding)

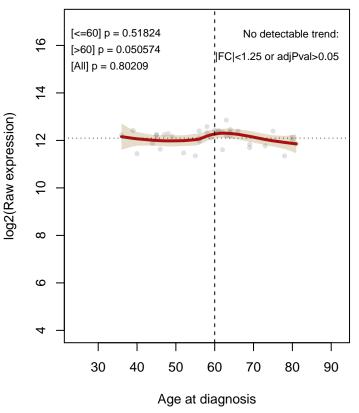
**RB1 (non-ER binding)** 

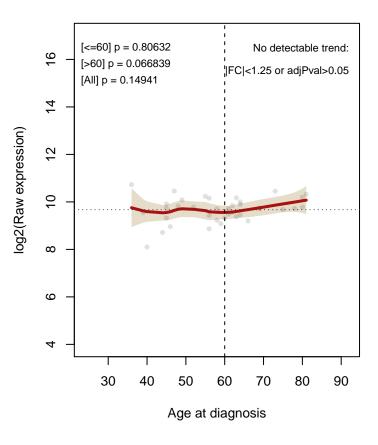






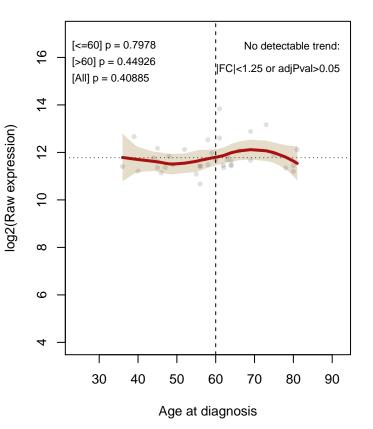
#### RBBP5 (non-ER binding)

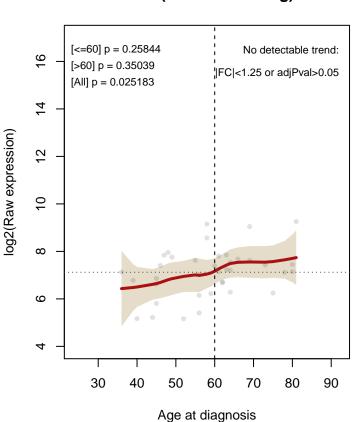


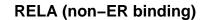


# RBBP7 (non-ER binding)

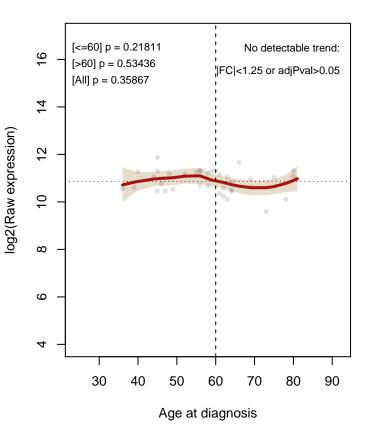
**REL** (non-ER binding)

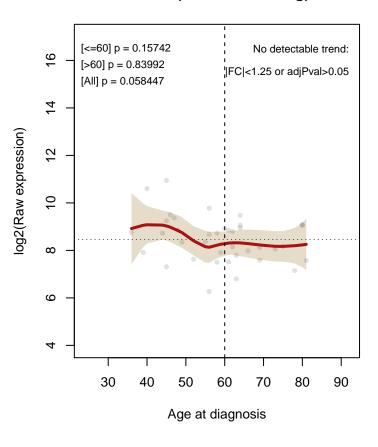






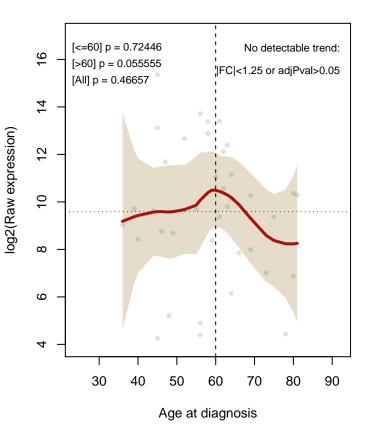
#### **RELB** (non-ER binding)

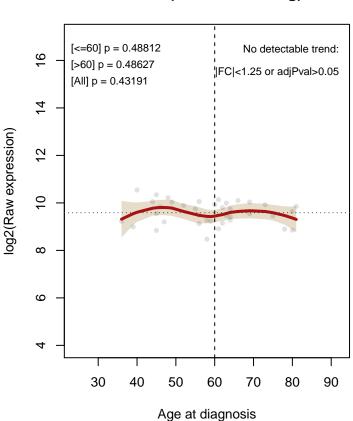




# **RET (ER binding)**

RING1 (non-ER binding)





#### RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.068123No detectable trend: [<=60] p = 0.28281No detectable trend: 16 16 [>60] p = 0.96183 [>60] p = 0.20316 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.09855[All] p = 0.263544 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 $\infty$ $\infty$ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.15692No detectable trend: [<=60] p = 0.84939No detectable trend: 16 16 [>60] p = 0.16469 [>60] p = 0.71135 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.23129[All] p = 0.673644 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 $\infty$ $\infty$ 9 9

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Age at diagnosis

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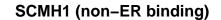
60

Age at diagnosis

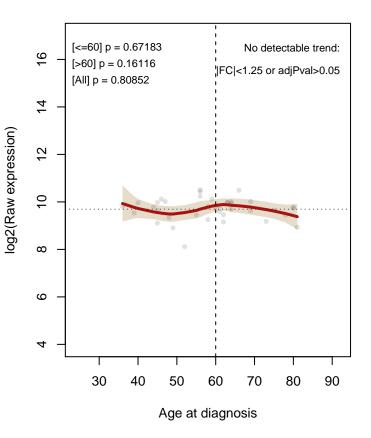
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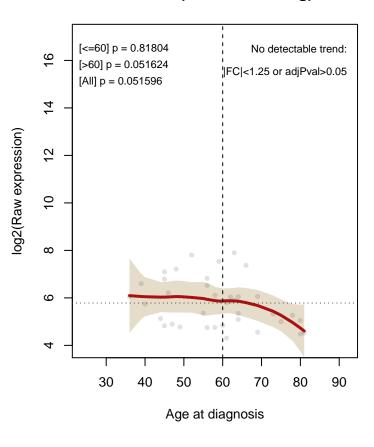
80

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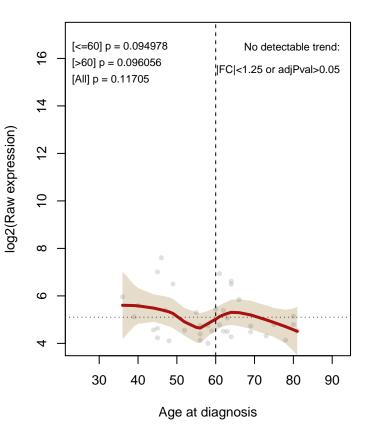
#### SCML2 (non-ER binding)

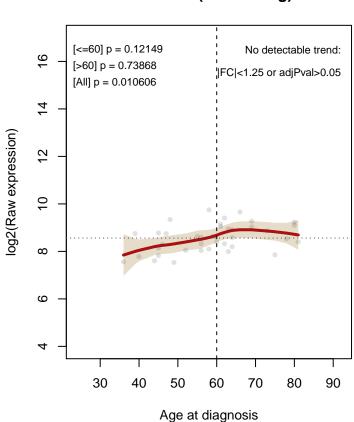




# SCML4 (non-ER binding)

#### SFMBT1 (ER binding)





#### SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.93185No detectable trend: [<=60] p = 0.80841No detectable trend: 16 16 [>60] p = 0.25697 [>60] p = 0.24641 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.48143[AII] p = 0.47744 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 $\infty$ $\infty$ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.40034No detectable trend: [<=60] p = 0.12643No detectable trend: 16 16 [>60] p = 0.030148 [>60] p = 0.058014 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.97664[All] p = 0.998274 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω $\infty$ 9 9

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Age at diagnosis

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Age at diagnosis

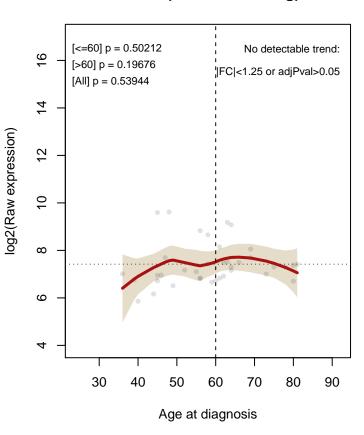
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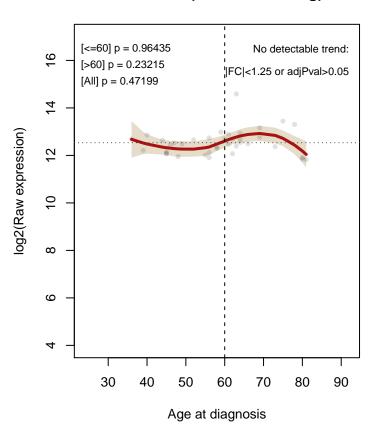
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#### SKP2 (non-ER binding)

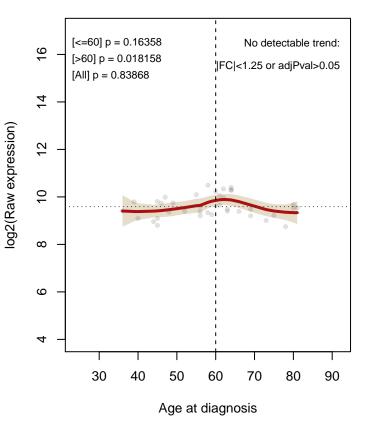
#### SLC25A3 (non-ER binding)

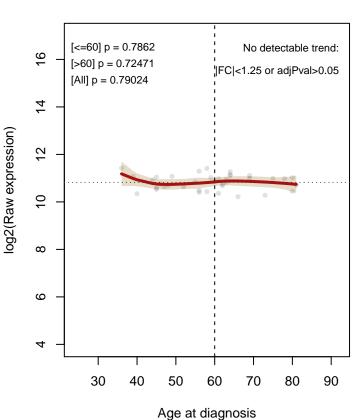




# SMAD1 (non-ER binding)

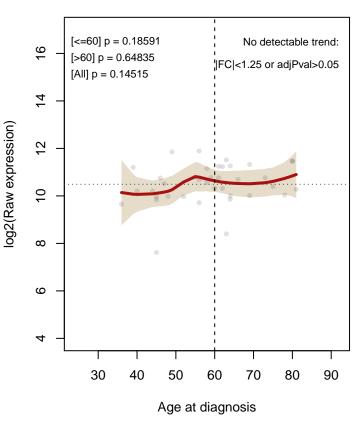
# SMAD2 (non-ER binding)

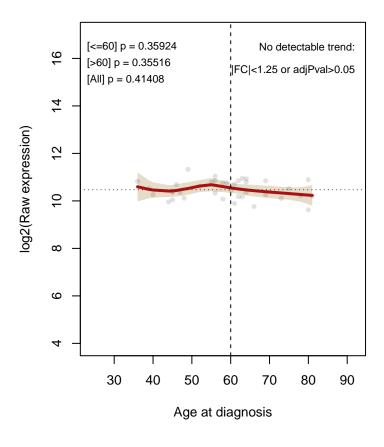






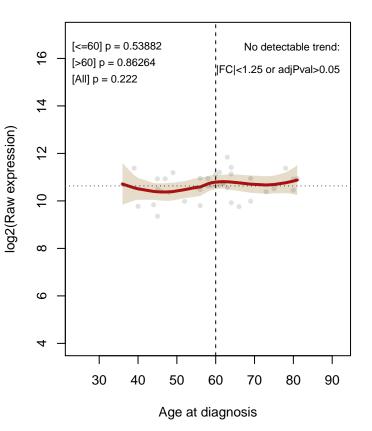
# SMAD4 (non-ER binding)

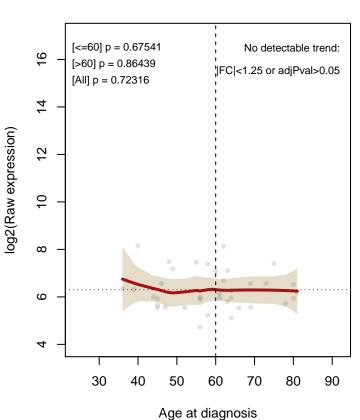




# SMAD5 (non-ER binding)

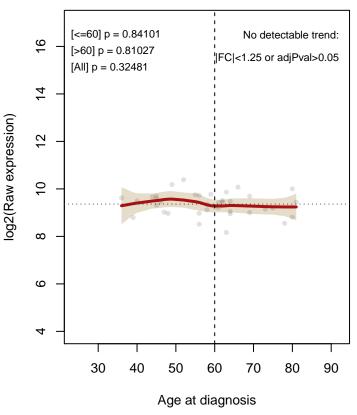
SMAD6 (non-ER binding)

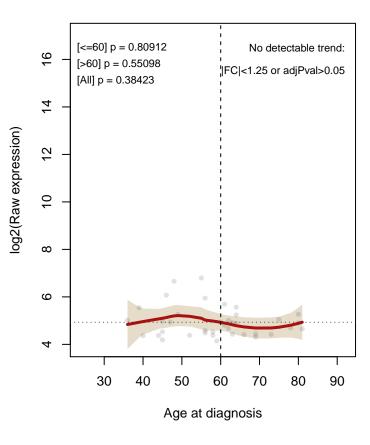




# SMAD7 (non-ER binding)

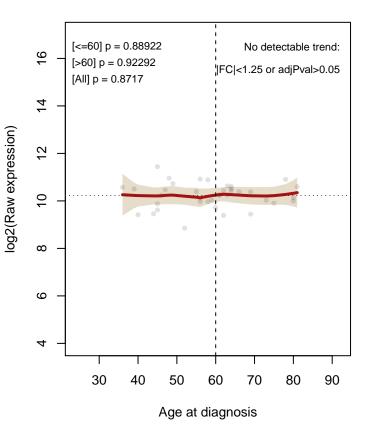
# SMAD9 (non-ER binding)

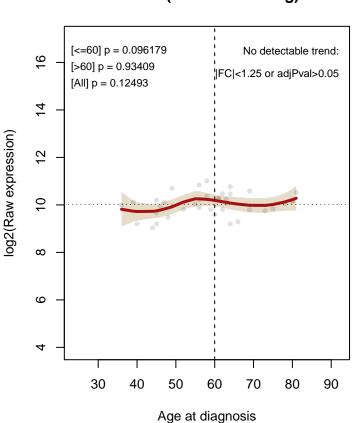




# SOS1 (non-ER binding)

SOS2 (non-ER binding)

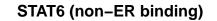




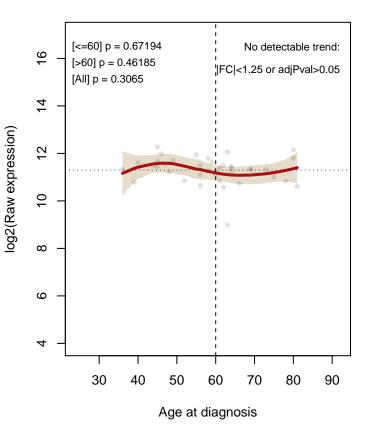
#### SP1 (non-ER binding) SRC (non-ER binding) [<=60] p = 0.30788No detectable trend: [<=60] p = 0.47197No detectable trend: 16 16 [>60] p = 0.35748 [>60] p = 0.92111 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.033253[All] p = 0.0741084 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω $\infty$ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis STAT3 (non-ER binding) STAT1 (ER binding) [<=60] p = 0.43425No detectable trend: [<=60] p = 0.28091No detectable trend: 16 16 [>60] p = 0.9638 [>60] p = 0.56742 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.95886[All] p = 0.137564 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω $\infty$ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90

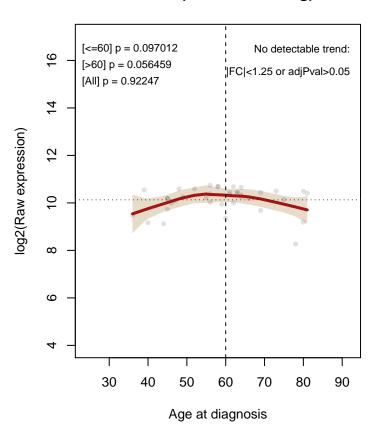
Age at diagnosis

Age at diagnosis



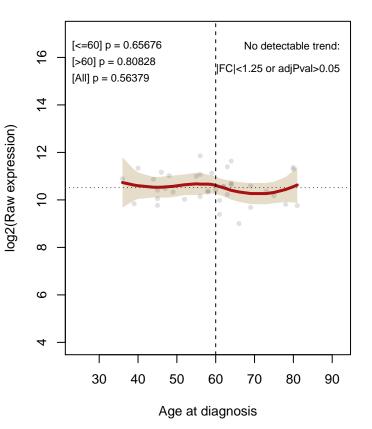
#### SUZ12 (non-ER binding)

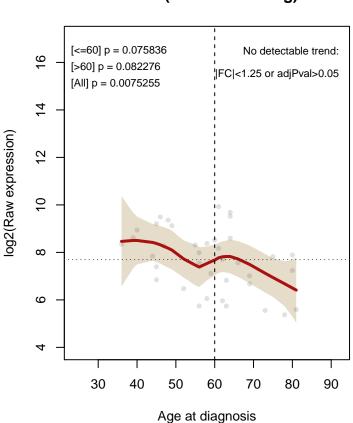




# TCF3 (non-ER binding)

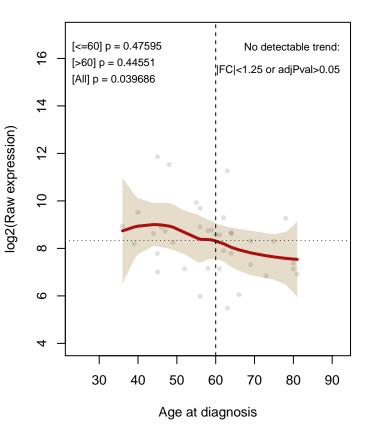
TCF7 (non-ER binding)

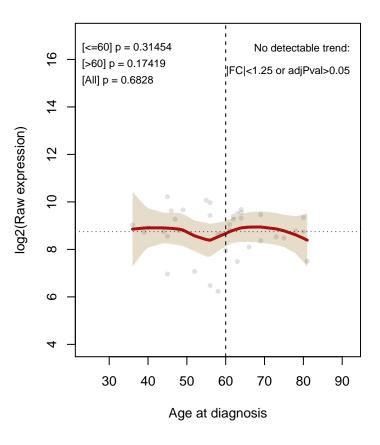






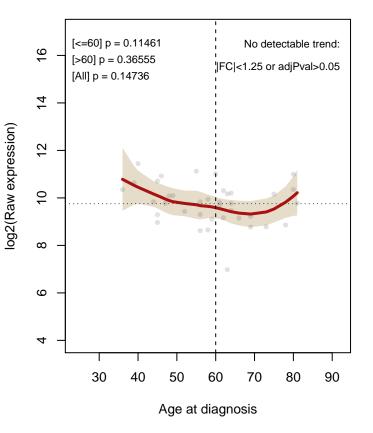
#### TCF7L2 (non-ER binding)

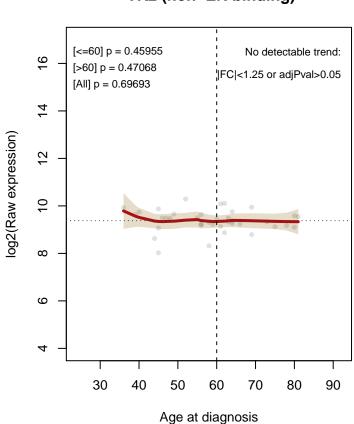


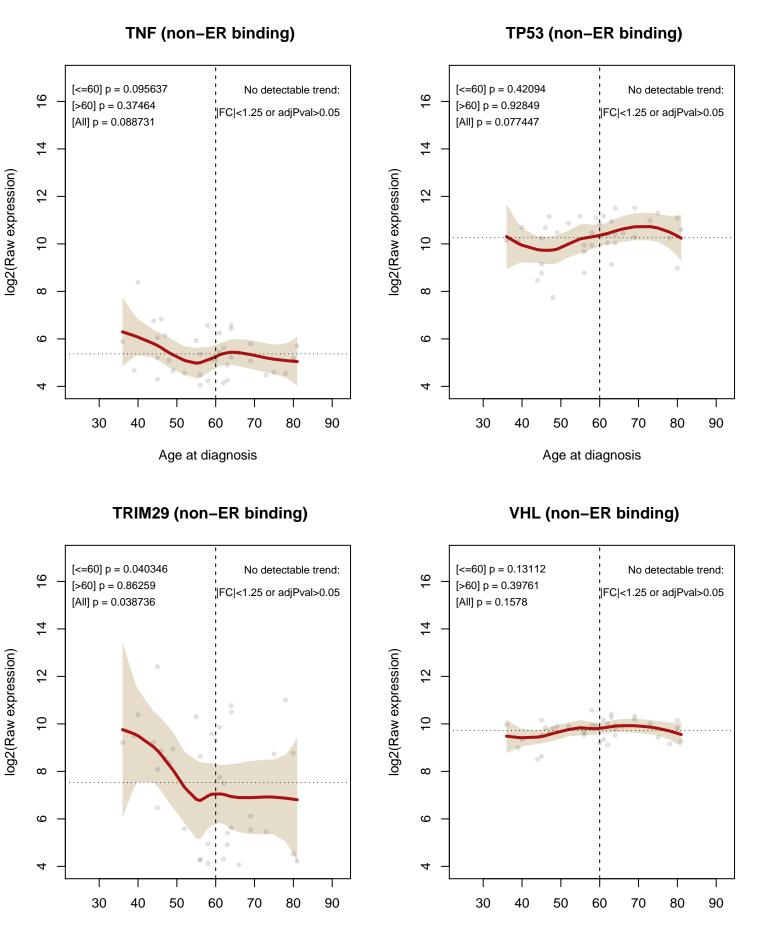


TGFB1 (non-ER binding)

TK2 (non-ER binding)





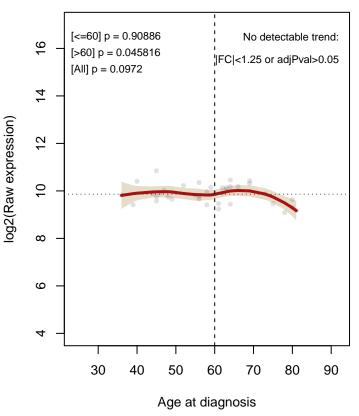


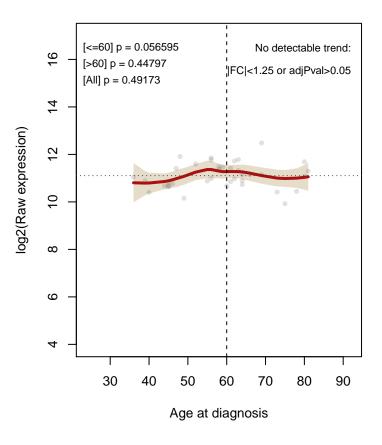
Age at diagnosis

Age at diagnosis



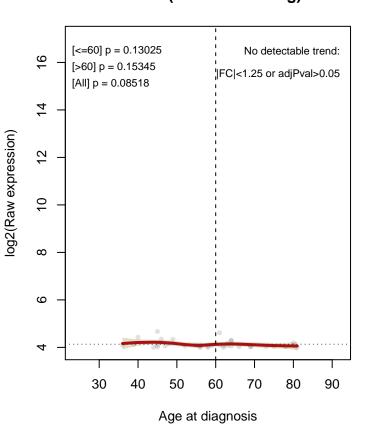
#### WHSC1 (non-ER binding)

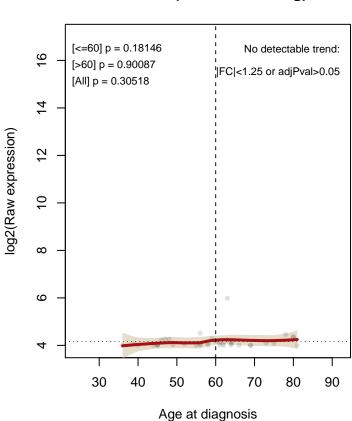


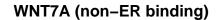


# WNT1 (non-ER binding)

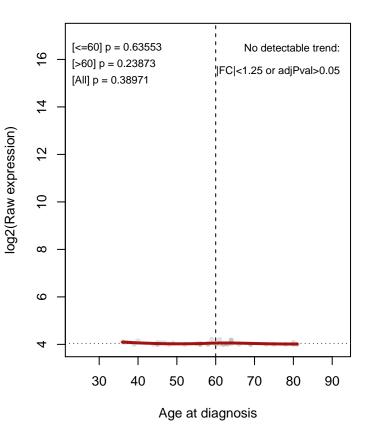
#### WNT3A (non-ER binding)

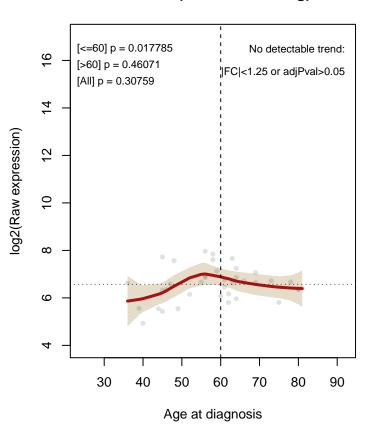






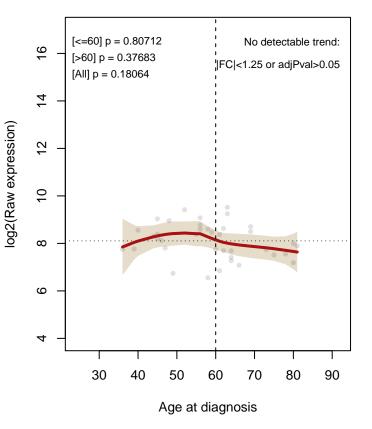
#### XRCC2 (non-ER binding)

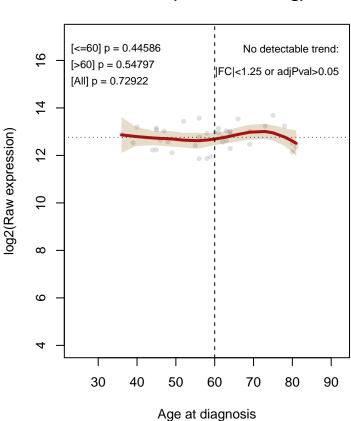




# XRCC3 (non-ER binding)

# XRCC6 (non-ER binding)

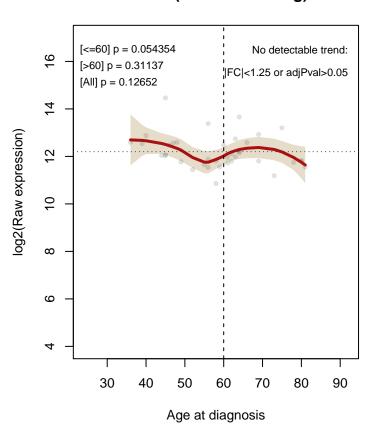




#### YAF2 (non-ER binding)

# 90 - [<=60] p = 0.093141 | No detectable trend: |FC|<1.25 or adjPval>0.05 | No detectable trend: |FC|<1.25 | No detectable trend: |FC|<1.25 | No detectable trend: |FC|<1.25 | No detect

#### YBX1 (non-ER binding)



# YY1 (non-ER binding)

Age at diagnosis

