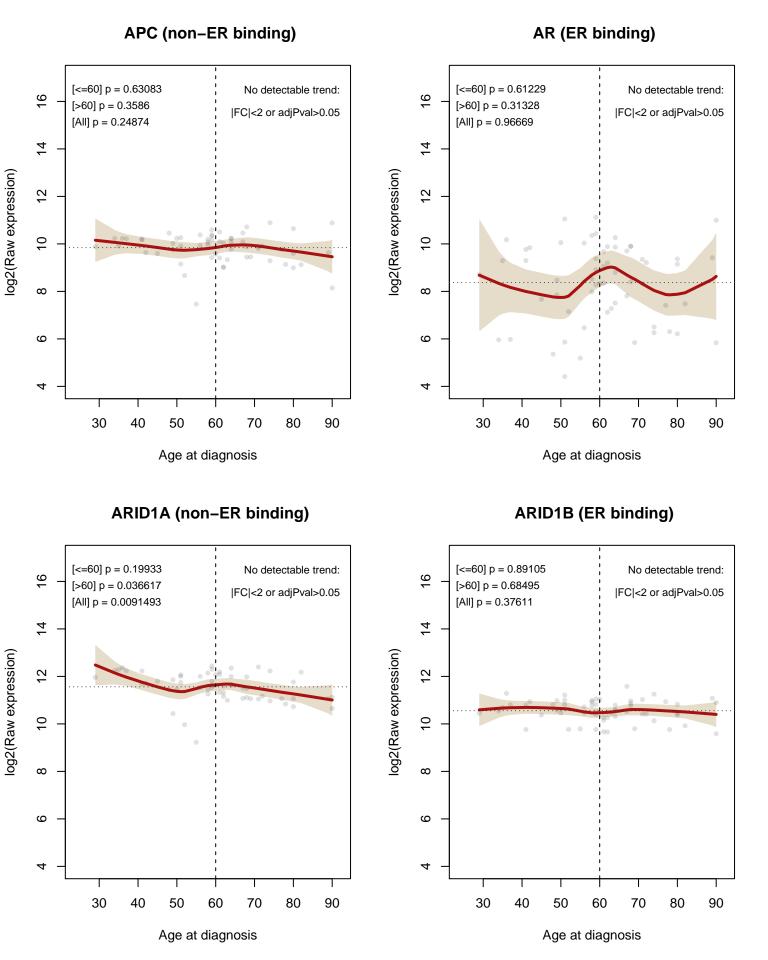
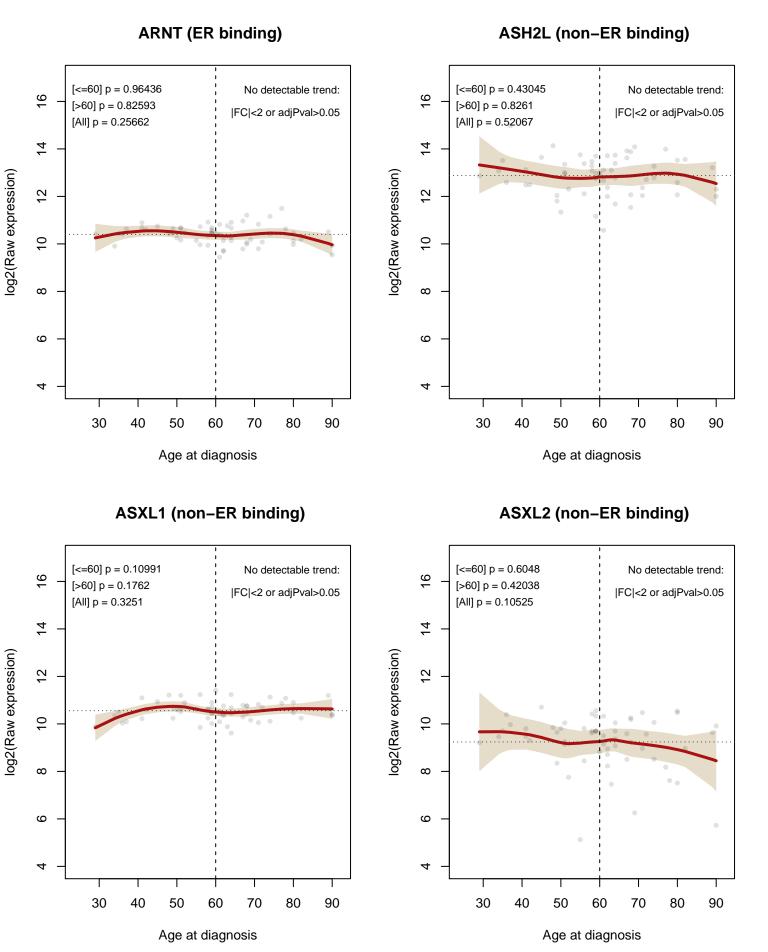
#### **AEBP2 (non-ER binding) AKT1 (ER binding)** [<=60] p = 0.63449No detectable trend: [<=60] p = 0.45809No detectable trend: 16 16 [>60] p = 0.047157 [>60] p = 0.4171 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.045393[All] p = 0.367254 4 log2(Raw expression) log2(Raw expression) 12 12 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 AKT2 (non-ER binding) AKT3 (non-ER binding) [<=60] p = 0.90778No detectable trend: [<=60] p = 0.33632No detectable trend: 16 16 [>60] p = 0.15111 [>60] p = 0.2298 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.48727[All] p = 0.696744 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





#### ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.53036No detectable trend: [<=60] p = 0.49183No detectable trend: 16 16 [>60] p = 0.83651 [>60] p = 0.45266 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.30423[AII] p = 0.20744 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 ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.94907No detectable trend: [<=60] p = 0.097443No detectable trend: 16 16 [>60] p = 0.74207[>60] p = 0.59644|FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.4629[All] p = 0.787074 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 $\infty$ $\infty$ 9 9

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Age at diagnosis

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Age at diagnosis

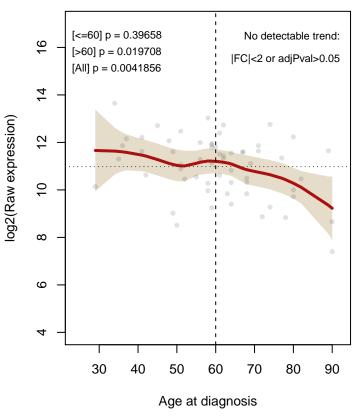
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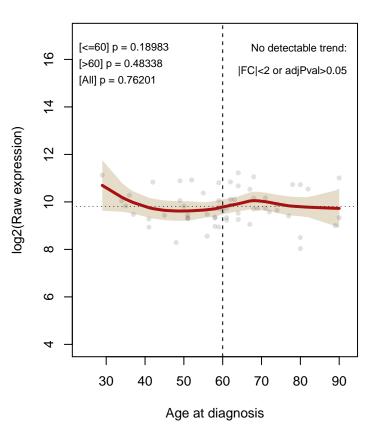
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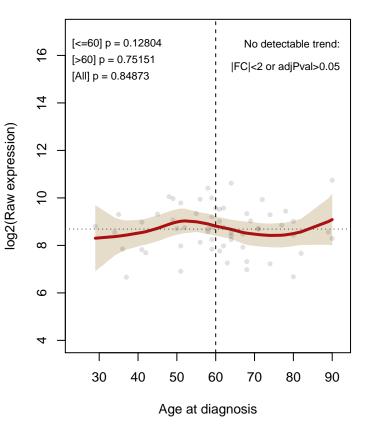
#### BCL3 (non-ER binding)

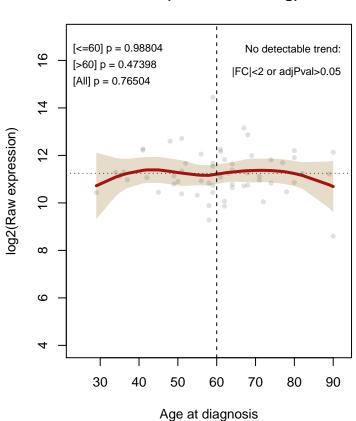


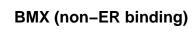


**BIRC5** (non-ER binding)

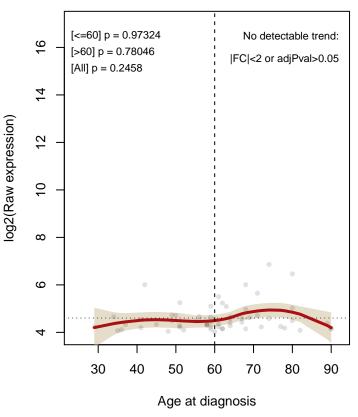
**BMI1** (non-ER binding)

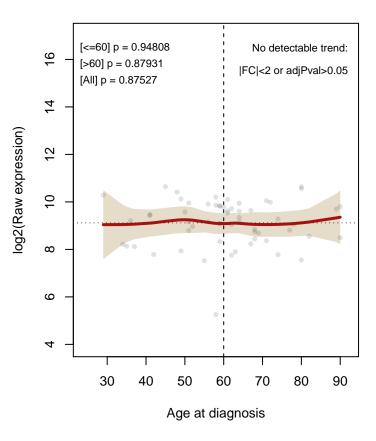






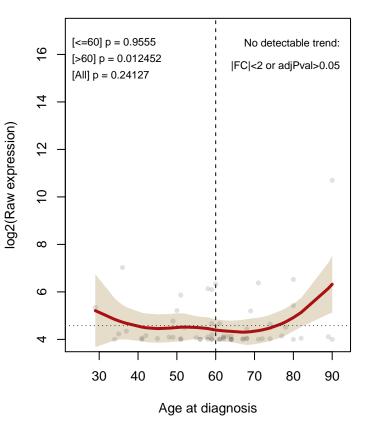
#### BRCA1 (non-ER binding)

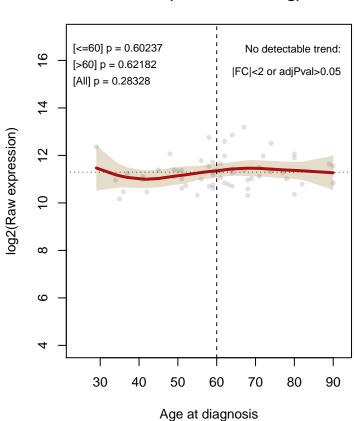




CA9 (non-ER binding)

**CBX1** (non-ER binding)





#### **CBX2** (non-ER binding) CBX4 (non-ER binding) [<=60] p = 0.34252No detectable trend: [<=60] p = 0.31569No detectable trend: 16 16 [>60] p = 0.53166 [>60] p = 0.62417 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.15063[All] p = 0.931544 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 CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.78263No detectable trend: [<=60] p = 0.95578No detectable trend: 16 16 [>60] p = 0.038562 [>60] p = 0.023679 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.010655[AII] p = 0.0613264 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 $\infty$ $\infty$ 9 9

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Age at diagnosis

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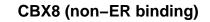
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Age at diagnosis

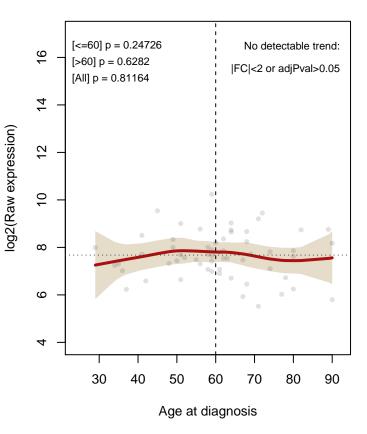
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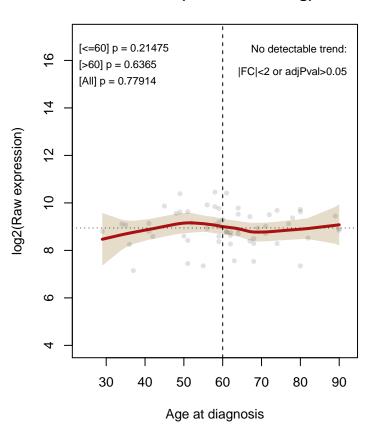
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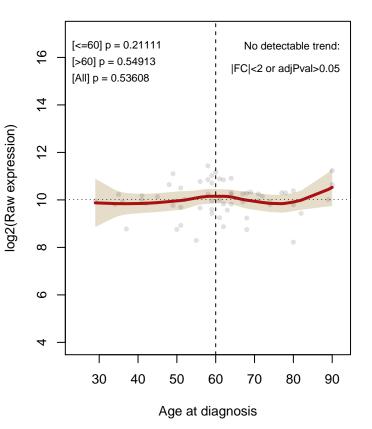
#### CCNA2 (non-ER binding)

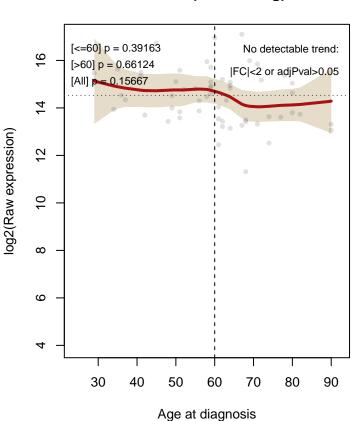


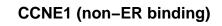


## CCNB1 (non-ER binding)

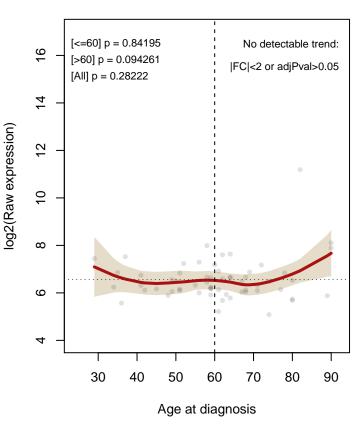
**CCND1 (ER binding)** 

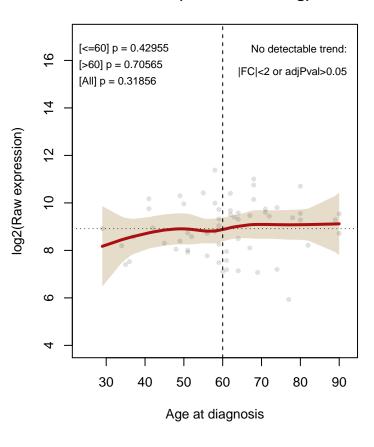






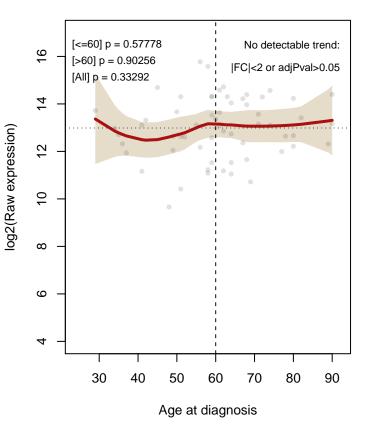
#### CD163 (non-ER binding)

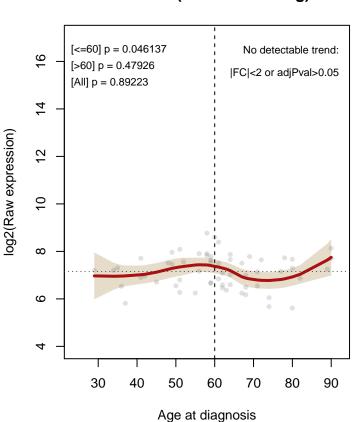


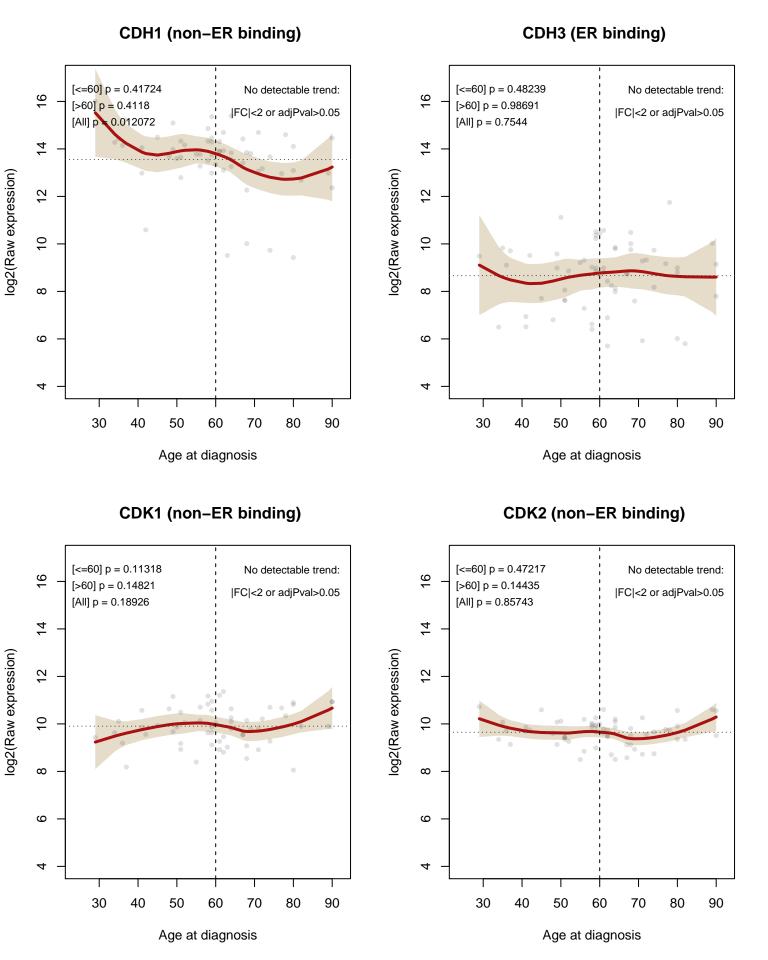


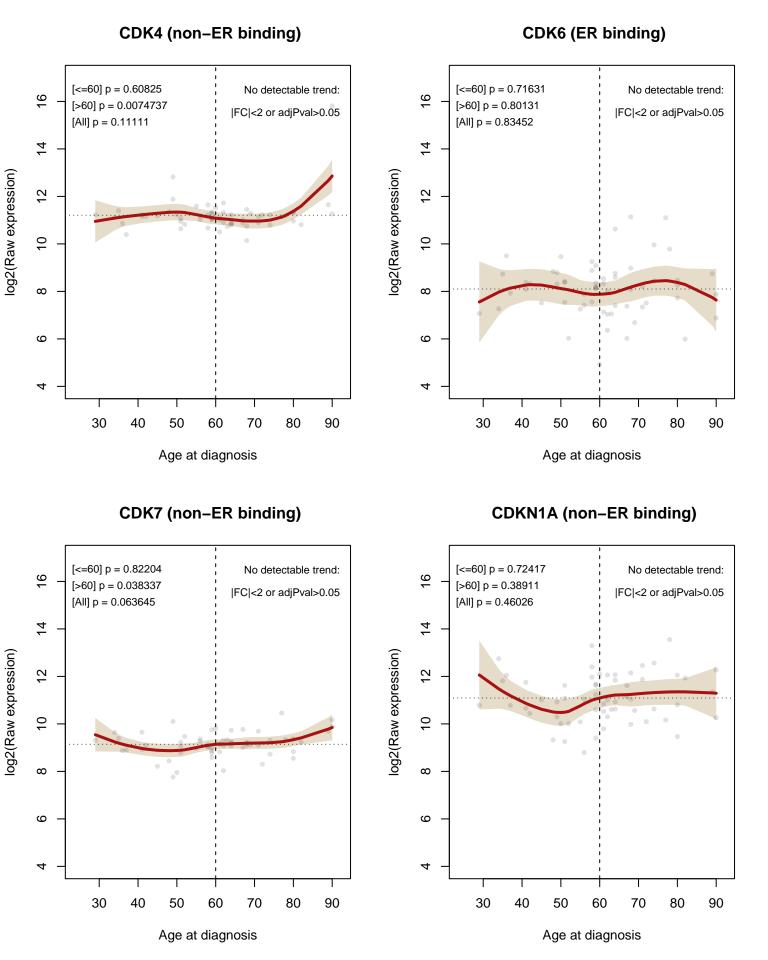
#### CD44 (non-ER binding)

#### CDC25C (non-ER binding)



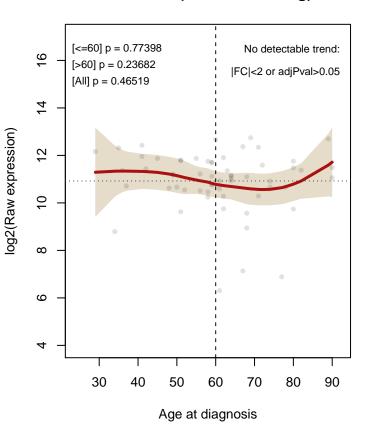


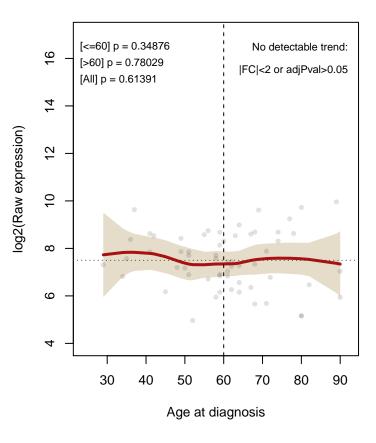




#### CDKN1B (non-ER binding)

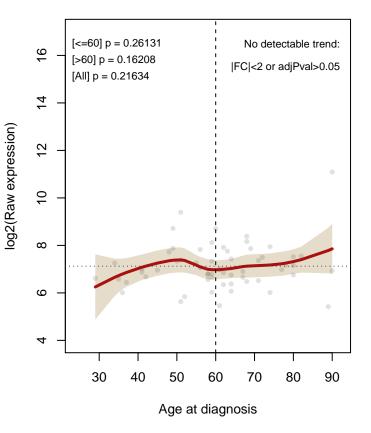
#### CDKN1C (non-ER binding)

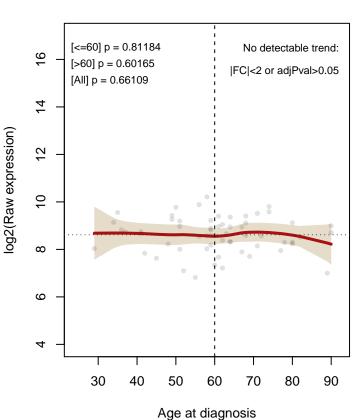




#### CDKN2A (non-ER binding)

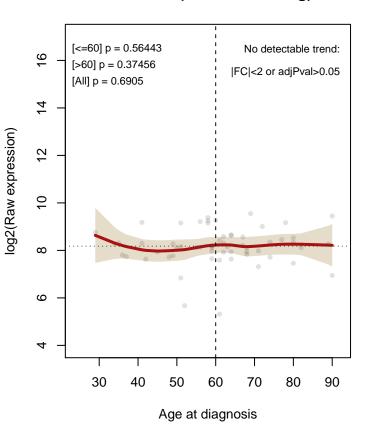
#### CDKN2B (non-ER binding)

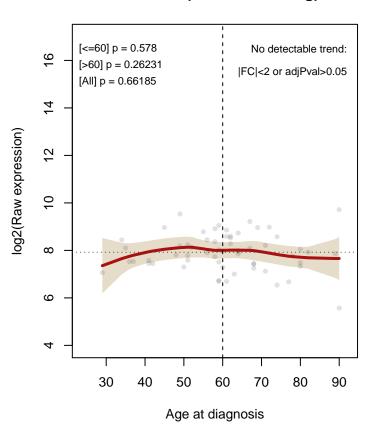




#### CDKN2C (non-ER binding)

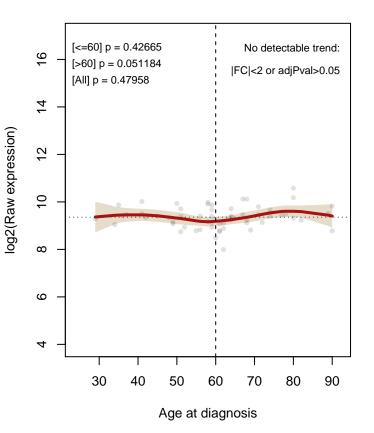
#### CDKN2D (non-ER binding)

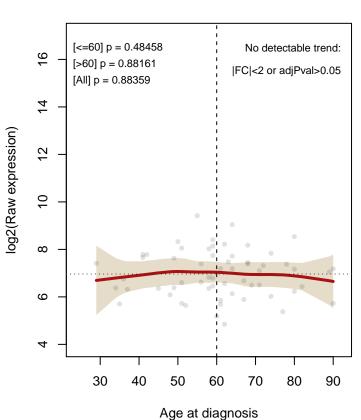




## CHUK (non-ER binding)

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





#### CLDN3 (non-ER binding)

[<=60] p = 0.9059

[>60] p = 0.82831

[AII] p = 0.56032

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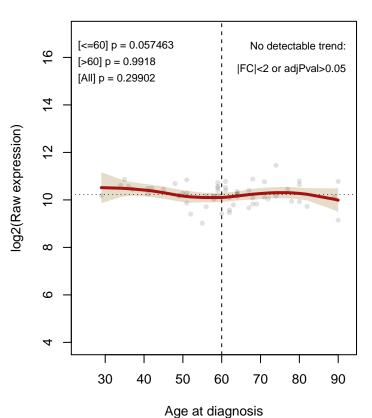
 $\infty$ 

9

log2(Raw expression)

No detectable trend:

|FC|<2 or adjPval>0.05



CREB1 (non-ER binding)

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

Age at diagnosis

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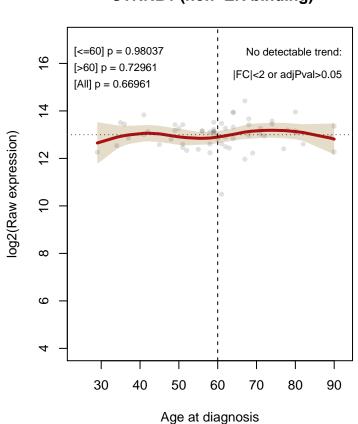
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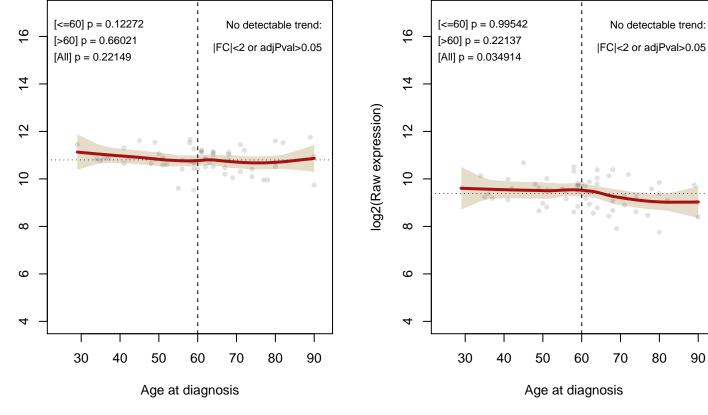
#### [<=60] p = 0.2356No detectable trend: 16 [>60] p = 0.68105 |FC|<2 or adjPval>0.05 [All] p = 0.616644 log2(Raw expression) 12 10 $\infty$ 9 30 40 50 60 70 80 90

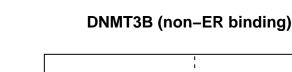
Age at diagnosis

#### CTNNB1 (non-ER binding)

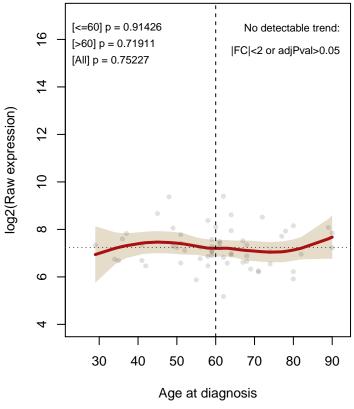


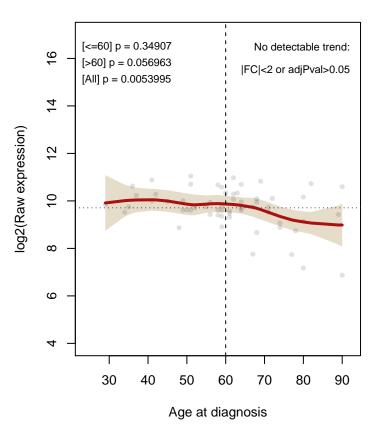
#### **DLC1 (ER binding)** DMAP1 (non-ER binding) [<=60] p = 0.44874No detectable trend: [<=60] p = 0.90172No detectable trend: 16 16 [>60] p = 0.077541 [>60] p = 0.53743 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.186[All] p = 0.485214 4 log2(Raw expression) log2(Raw expression) 12 12 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 **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.12272No detectable trend: [<=60] p = 0.9954216 16 [>60] p = 0.66021 [>60] p = 0.22137 |FC|<2 or adjPval>0.05 [All] p = 0.034914[All] p = 0.221494 4 log2(Raw expression) 12 12 10 10





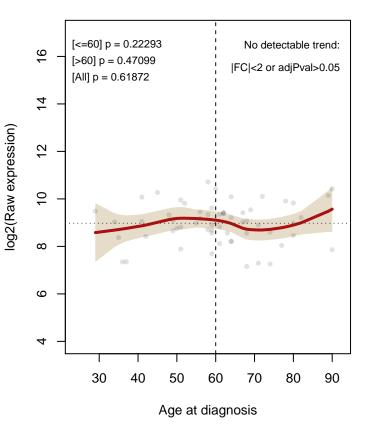
#### DVL1 (non-ER binding)

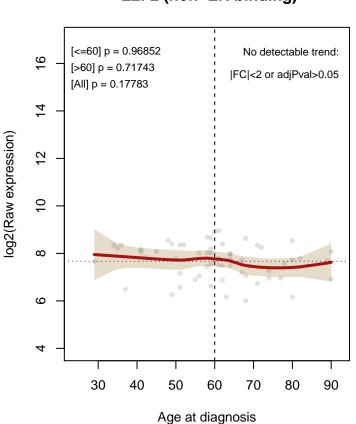


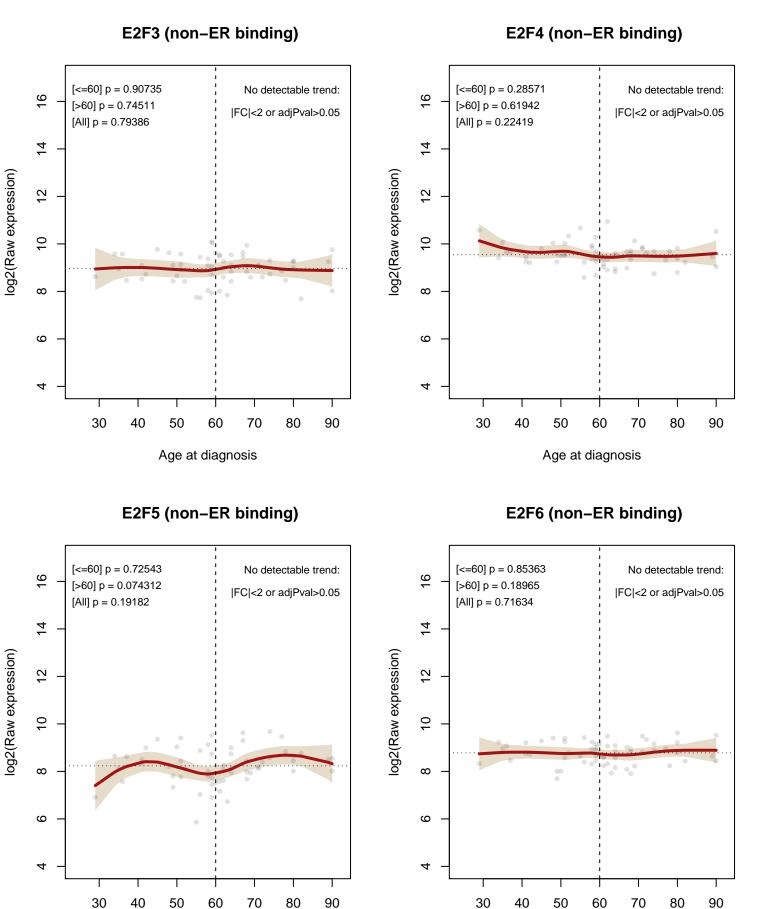


E2F1 (non-ER binding)

E2F2 (non-ER binding)

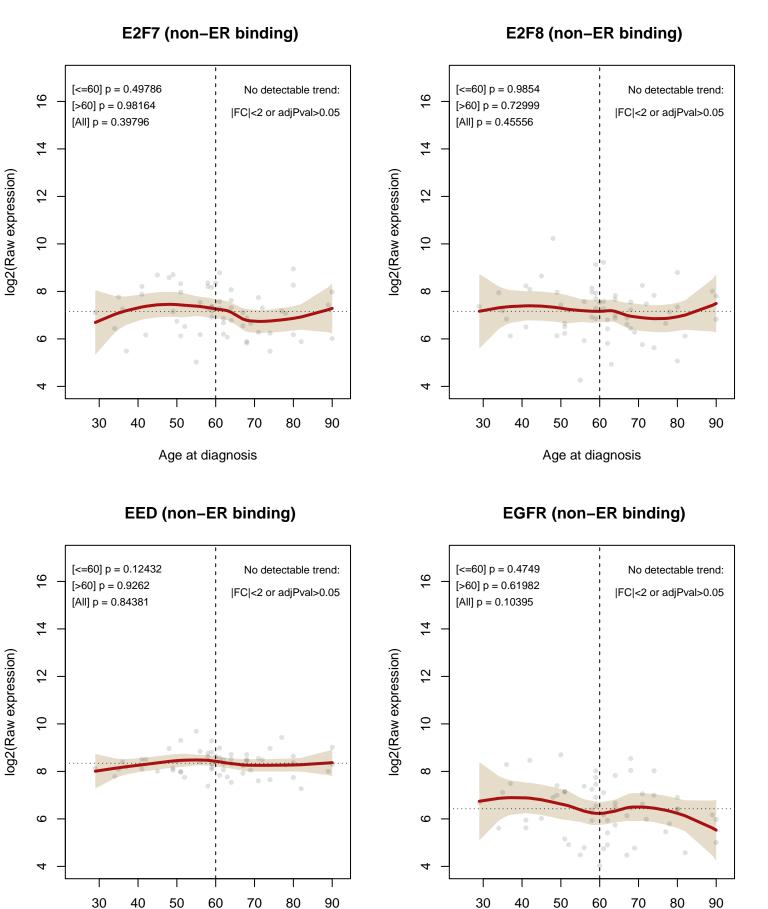






Age at diagnosis

Age at diagnosis

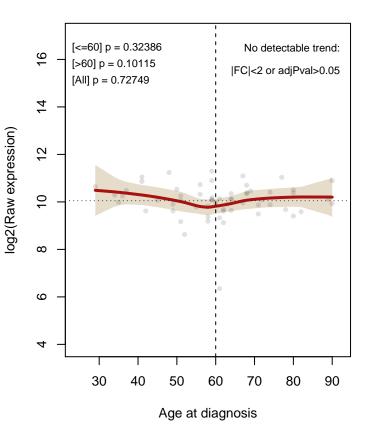


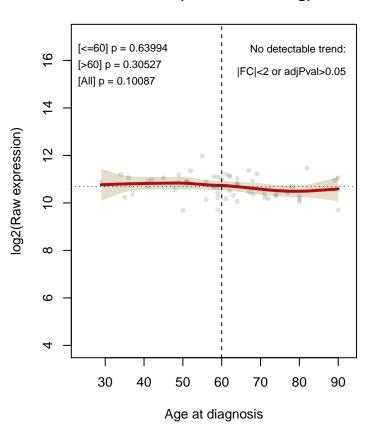
Age at diagnosis

Age at diagnosis



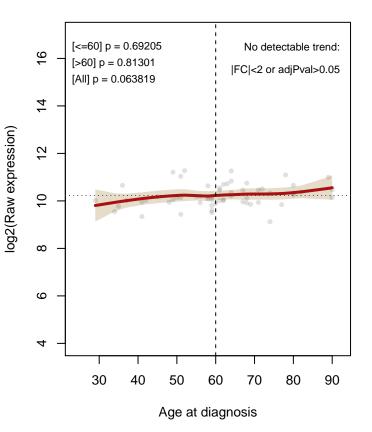
#### **EHMT2** (non-ER binding)

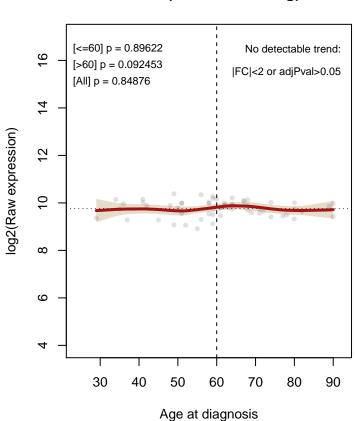




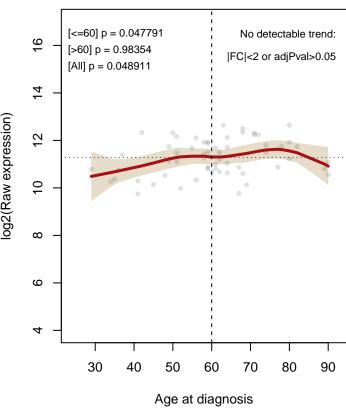
#### **ELAC2 (non-ER binding)**

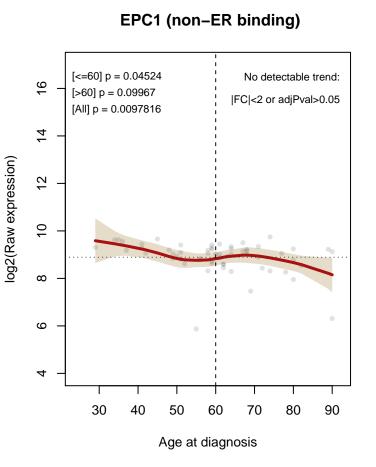
#### **ELK1 (non-ER binding)**

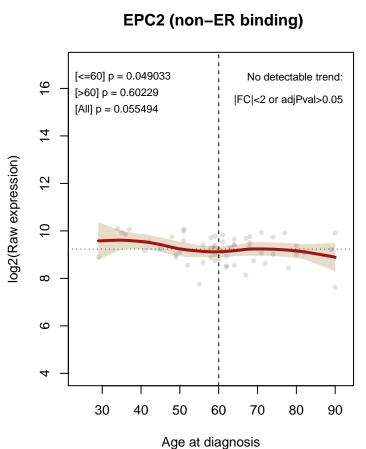


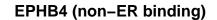


#### EP300 (non-ER binding) **EPAS1** (non-ER binding) [<=60] p = 0.28924No detectable trend: [<=60] p = 0.04779116 16 [>60] p = 0.16256 [>60] p = 0.98354 |FC|<2 or adjPval>0.05 [All] p = 0.052433[All] p = 0.0489114 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 $\infty$ $\infty$ 9 9 30 40 50 60 70 80 90 30 40 50 Age at diagnosis

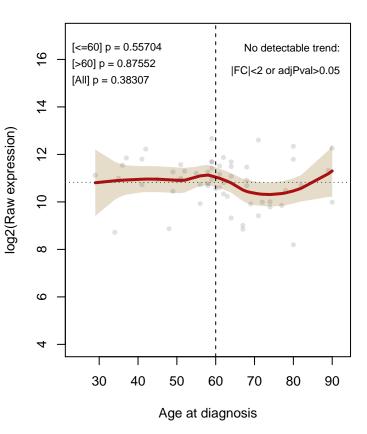


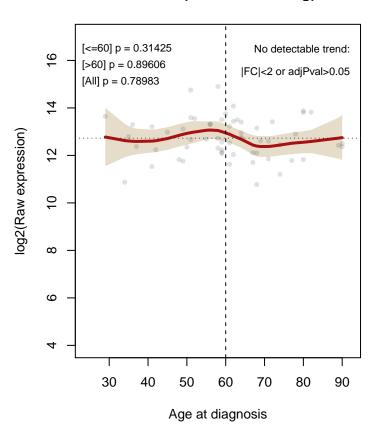






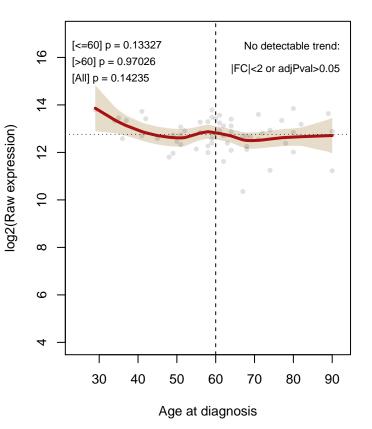
#### **ERBB2** (non-ER binding)

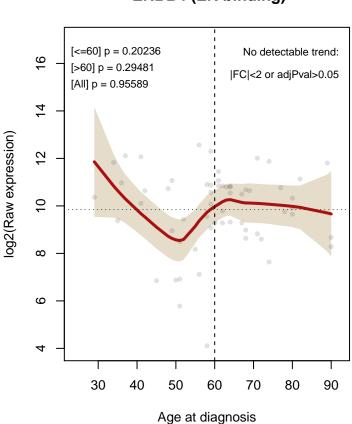


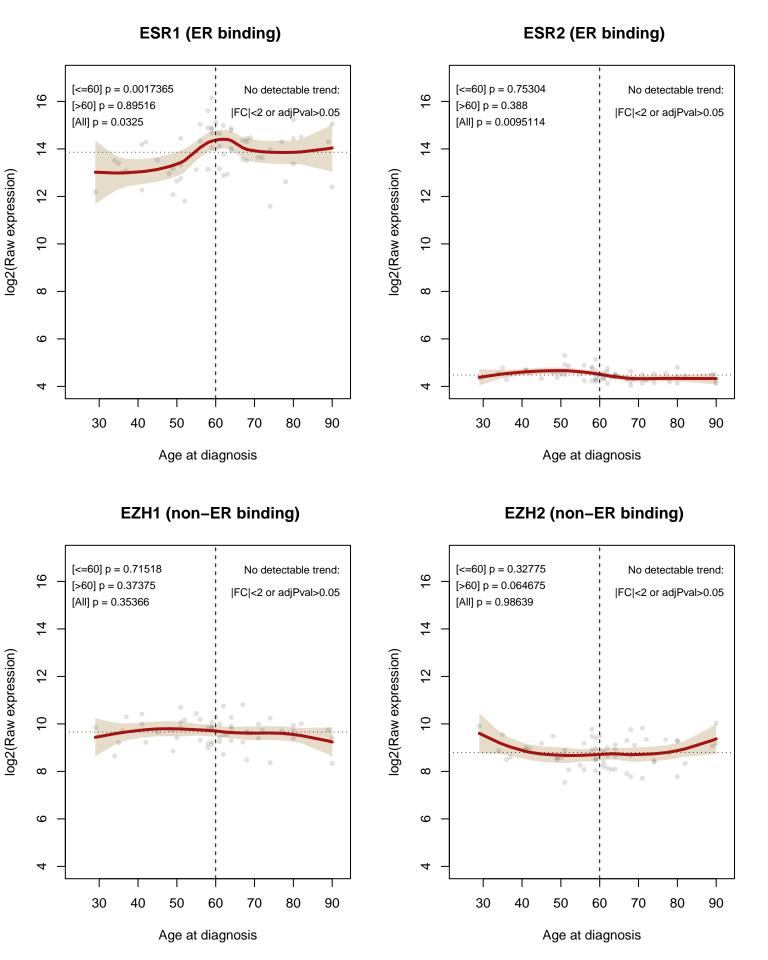


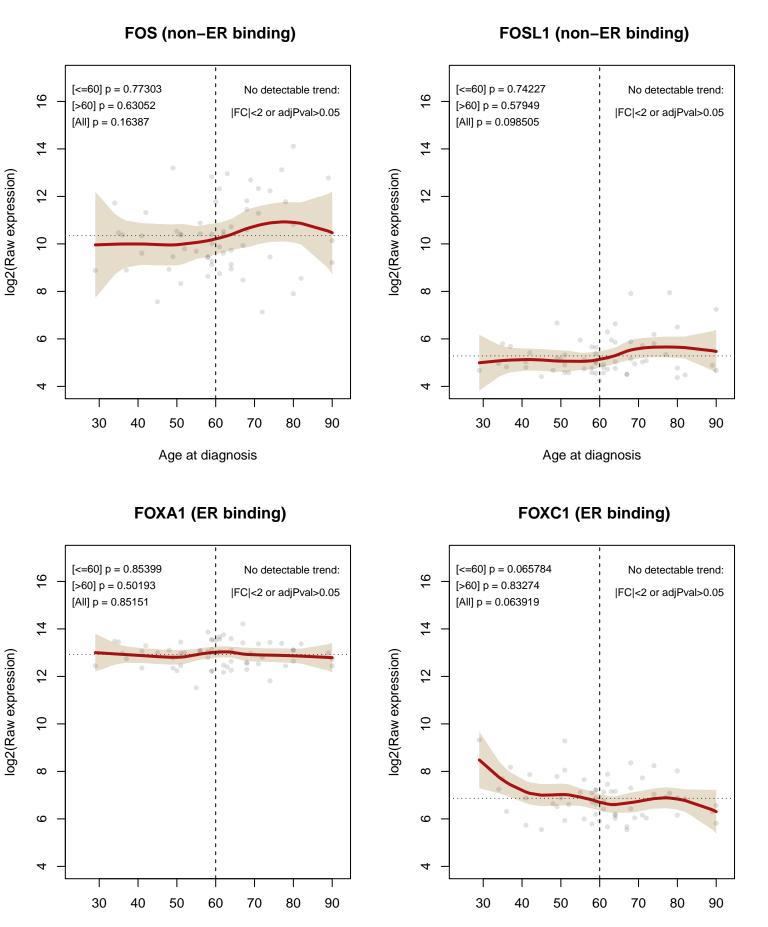
ERBB3 (non-ER binding)

**ERBB4 (ER binding)** 



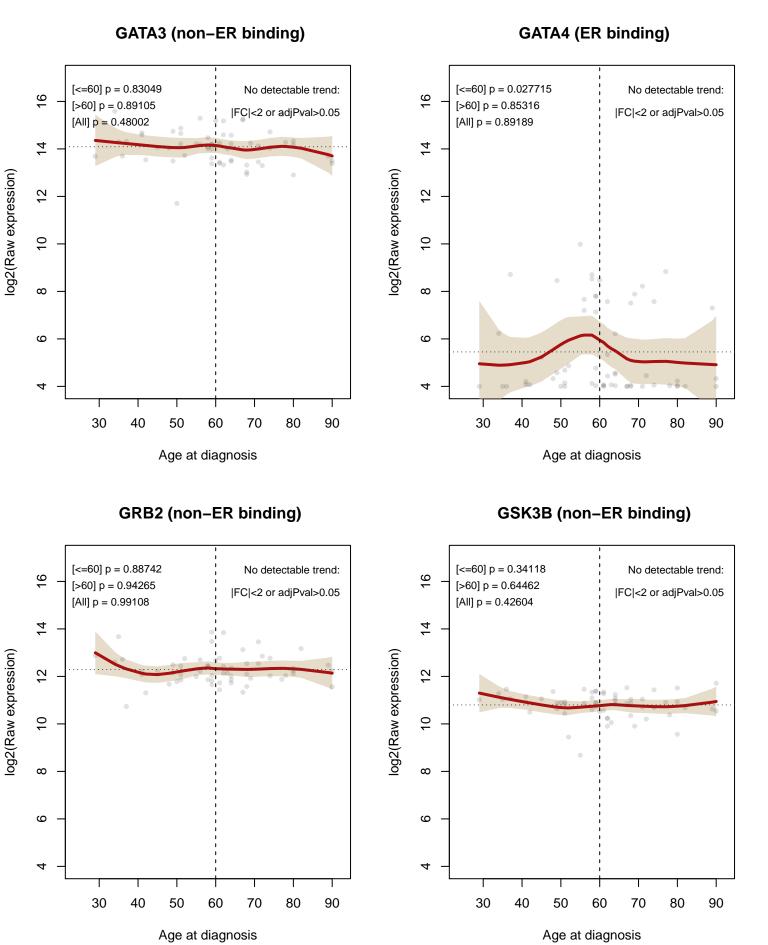


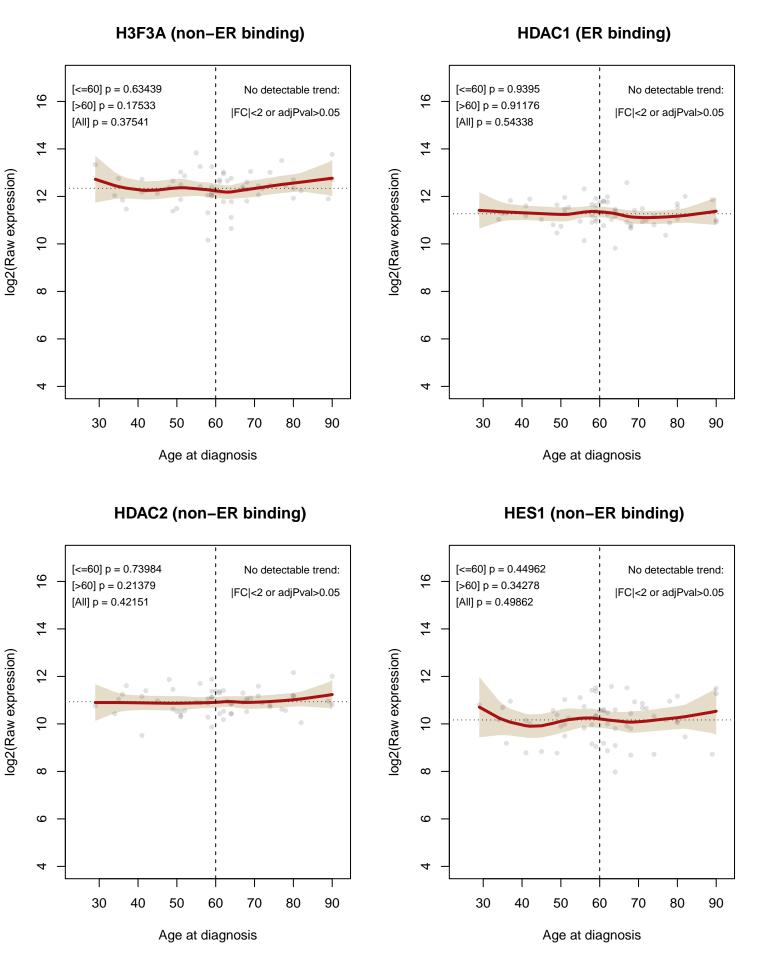


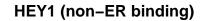


Age at diagnosis

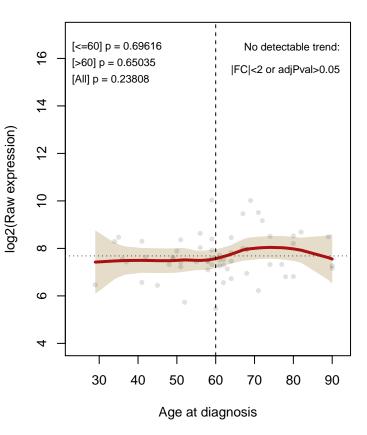
Age at diagnosis

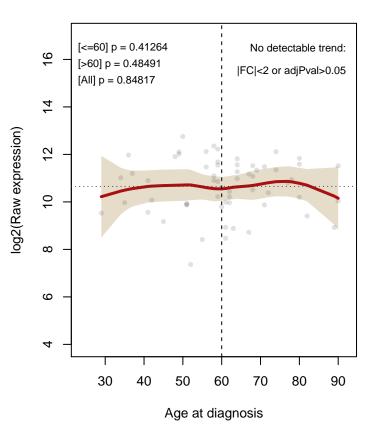






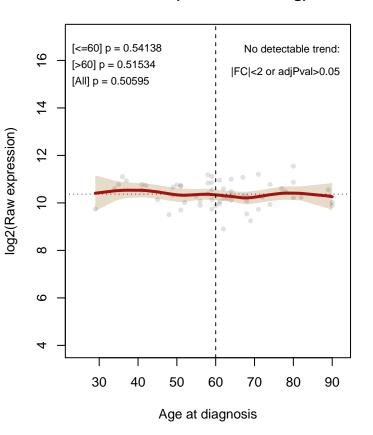
#### HIF1A (non-ER binding)

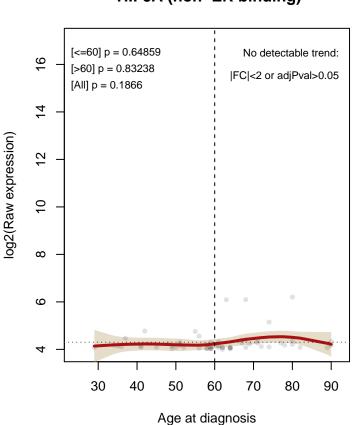




## HIF1AN (non-ER binding)

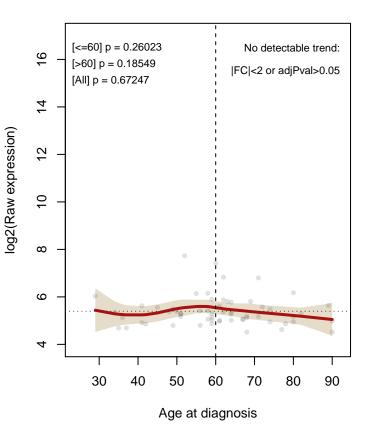
HIF3A (non-ER binding)

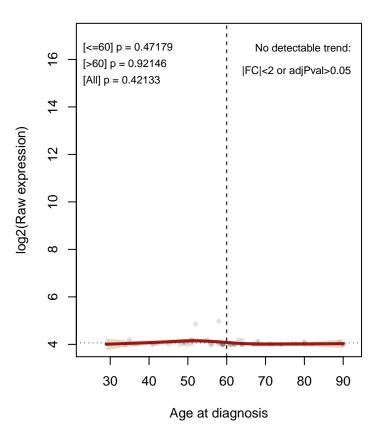




#### **HNF1A** (non-ER binding)

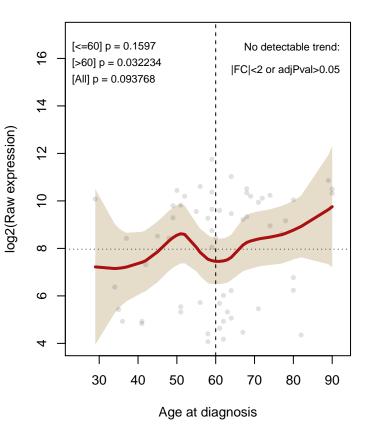
#### **HNF1B** (non-ER binding)

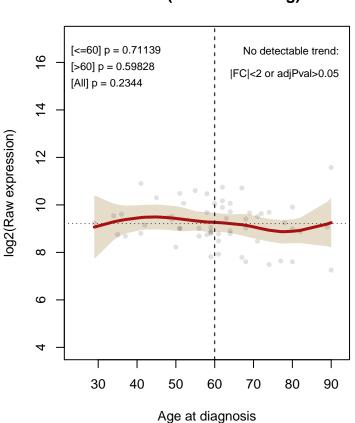




#### **HOXC10 (non-ER binding)**

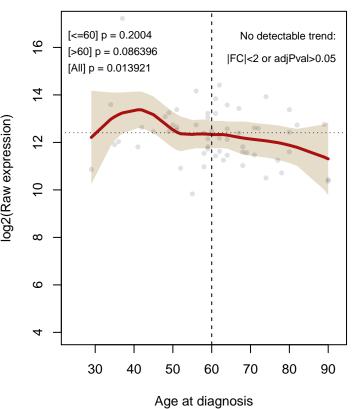
HRAS (non-ER binding)





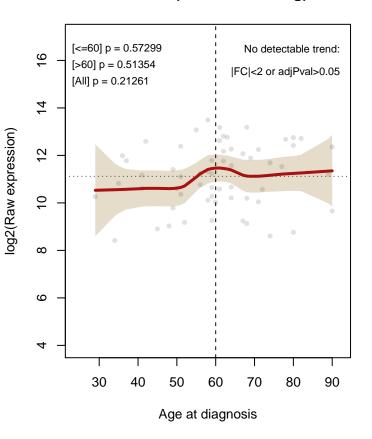
#### **HSPB1** (non-ER binding) [<=60] p = 0.77089No detectable trend: 16 16 [>60] p = 0.41974 |FC|<2 or adjPval>0.05 [All] p = 0.868284 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90

#### IGF1R (ER binding)

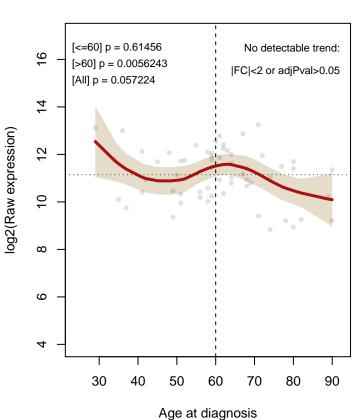


IGFBP2 (non-ER binding)

Age at diagnosis

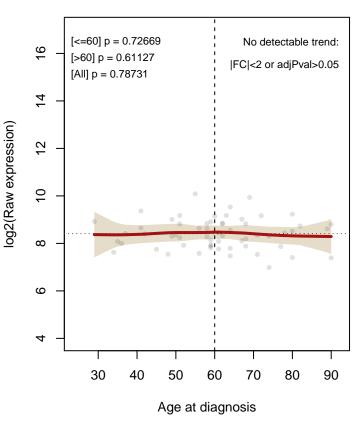


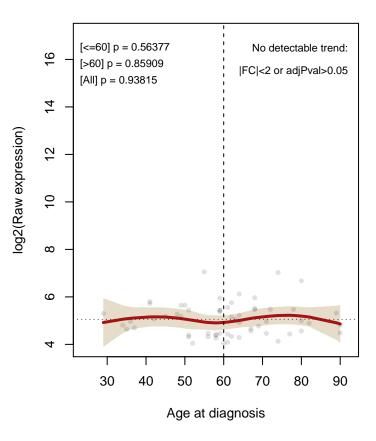
#### **IKBKB (ER binding)**





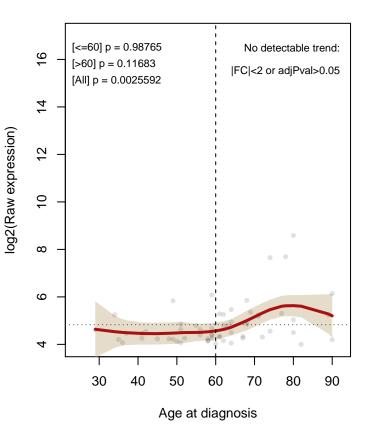
#### IL2RA (non-ER binding)

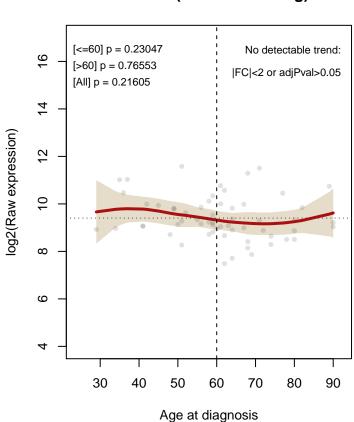


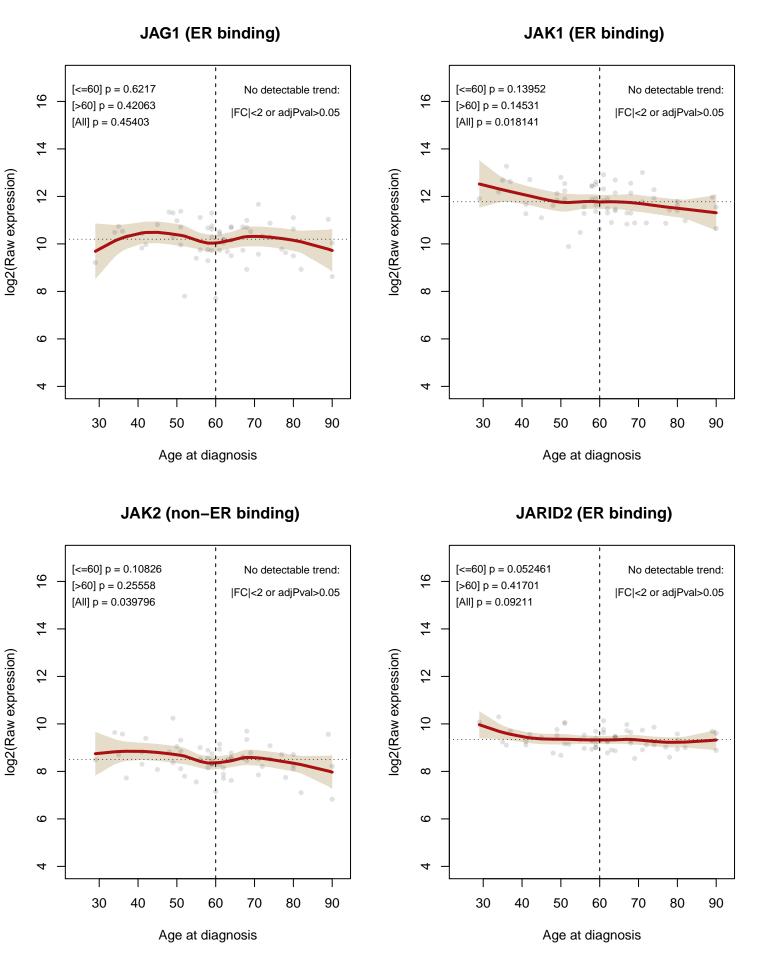


# IL6 (non-ER binding)

**INPP4B** (non-ER binding)



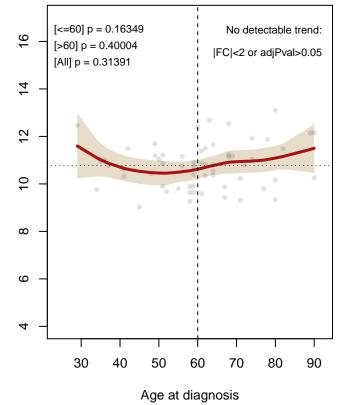


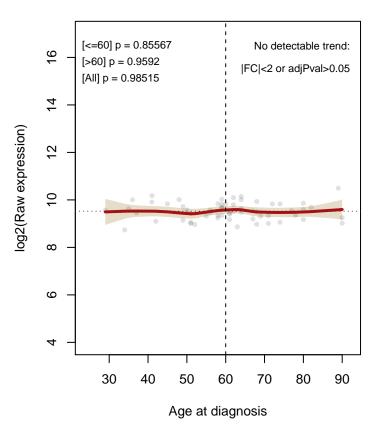


# JUN (non-ER binding)

log2(Raw expression)

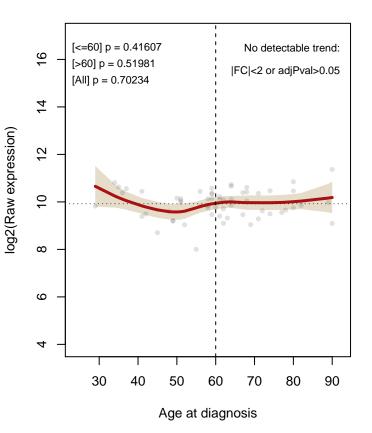
#### KDM2B (non-ER binding)

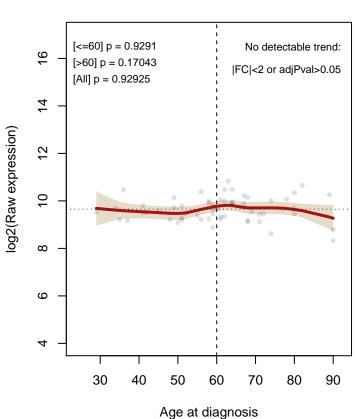




KDM6A (non-ER binding)

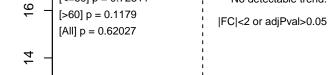
KDM6B (non-ER binding)







# [<=60] p = 0.72811 No detectable trend:



log2(Raw expression)

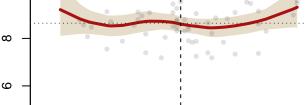
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Age at diagnosis

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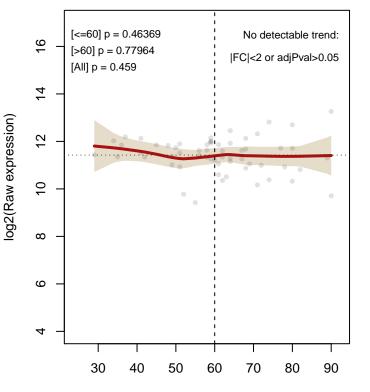
# KMT2C (non-ER binding)

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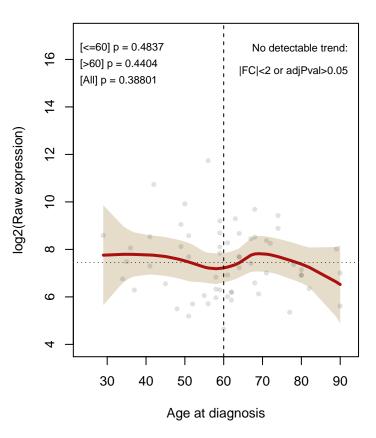
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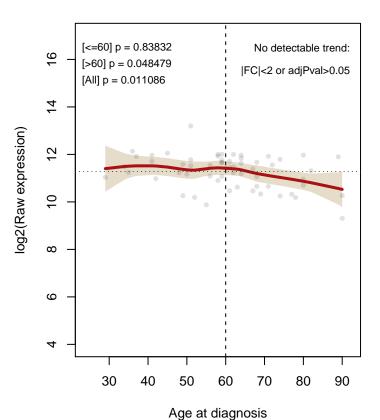


Age at diagnosis

#### KIT (non-ER binding)

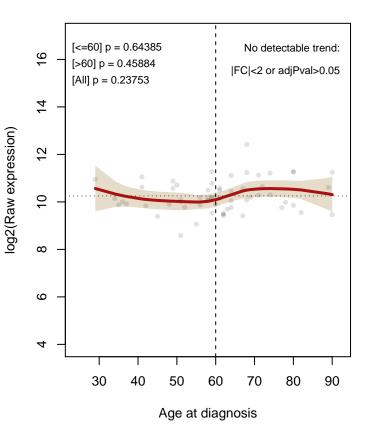


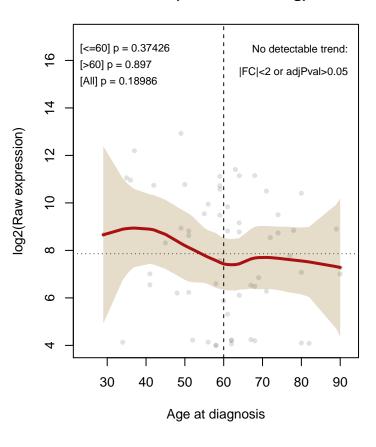
#### KMT2D (non-ER binding)





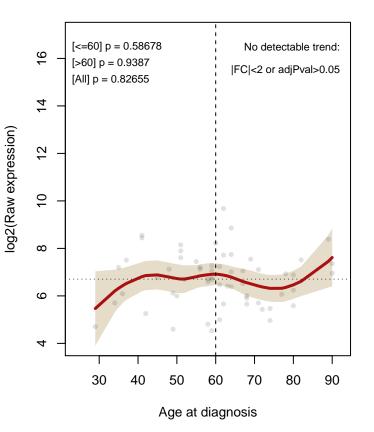
#### KRT5 (non-ER binding)

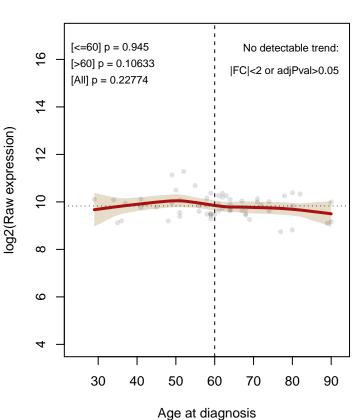




#### L3MBTL1 (non-ER binding)

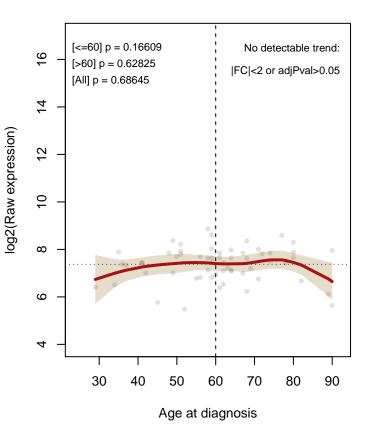
L3MBTL2 (non-ER binding)

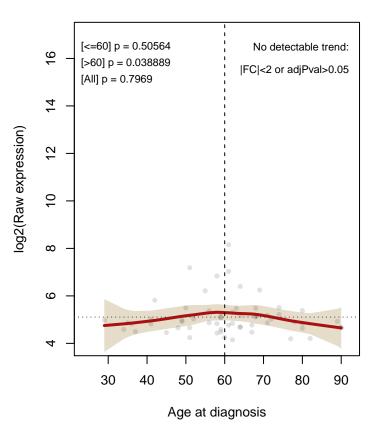




#### L3MBTL3 (ER binding)

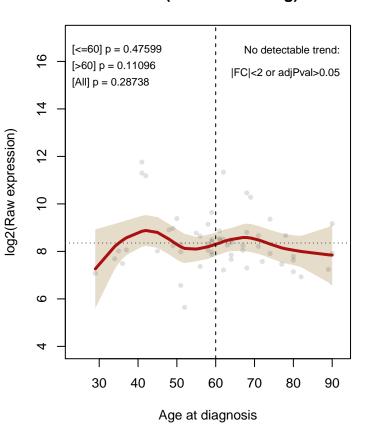
# L3MBTL4 (non-ER binding)

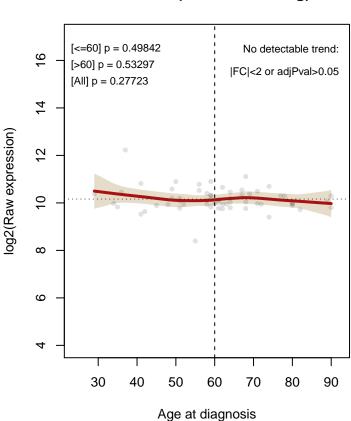




LEF1 (non-ER binding)

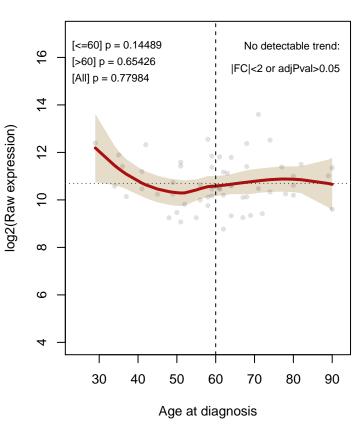
MAP2K1 (non-ER binding)

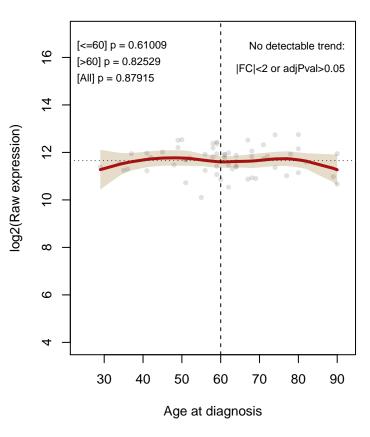




#### MAP3K1 (non-ER binding)

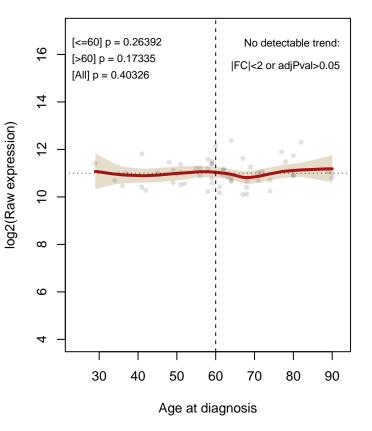
#### k binding) MAPK1 (non–ER binding)

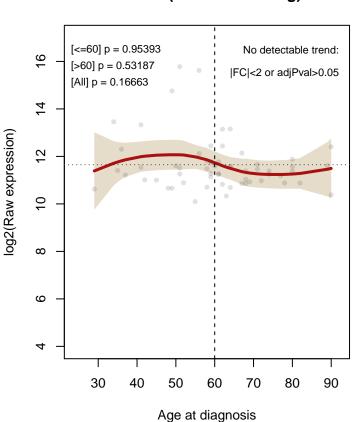


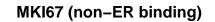


## MAPK3 (non-ER binding)

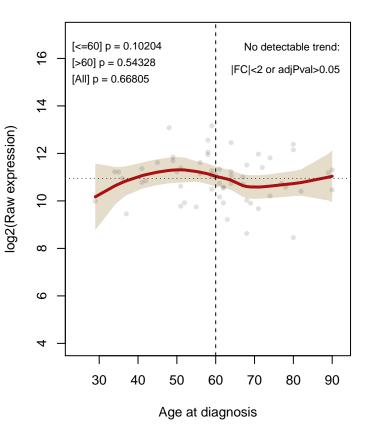
#### MDM2 (non-ER binding)

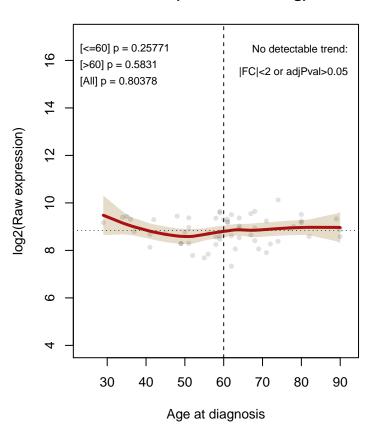






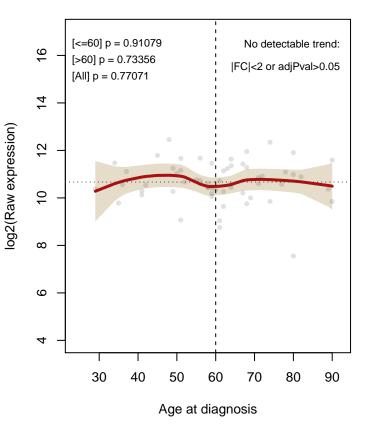
#### MTF2 (non-ER binding)

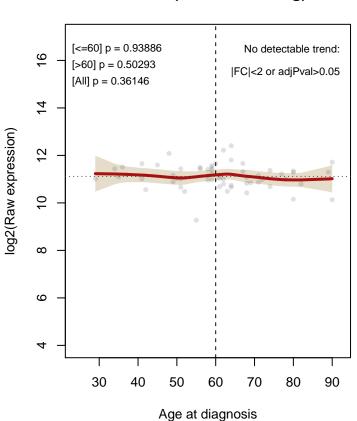


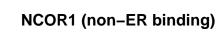


## MYC (non-ER binding)

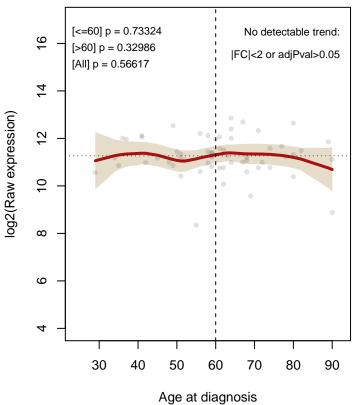
#### NCOA6 (non-ER binding)

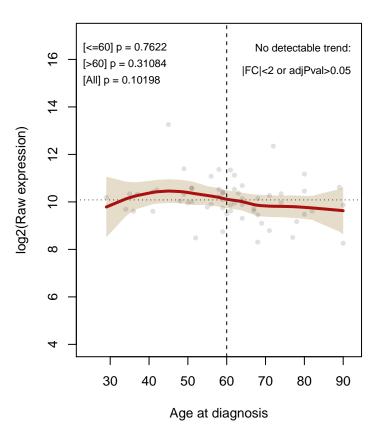






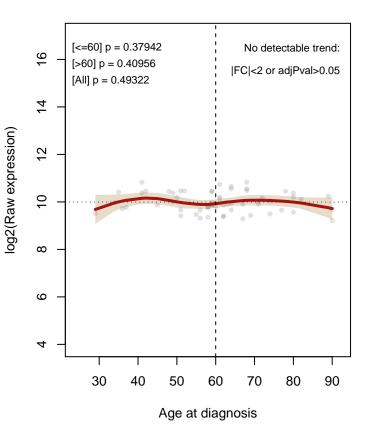
### **NES (non-ER binding)**

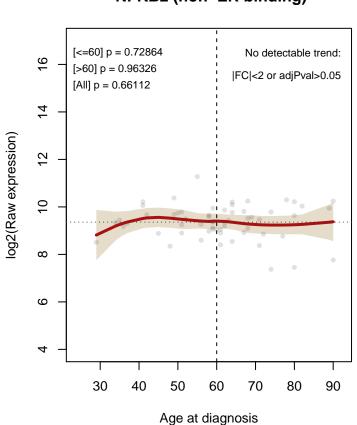




# NFKB1 (non-ER binding)

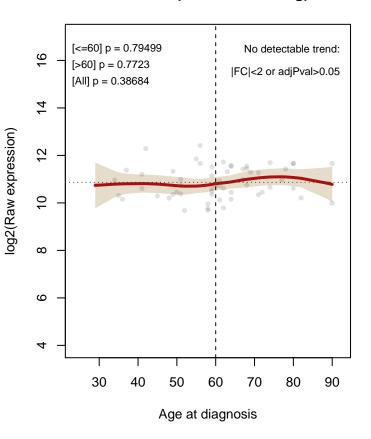
NFKB2 (non-ER binding)

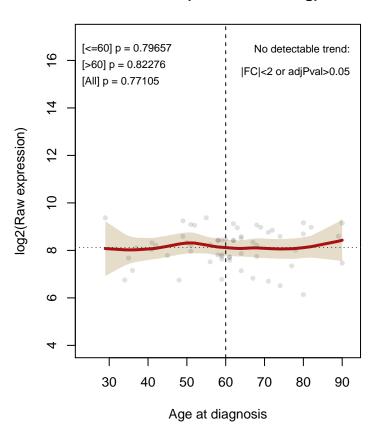




### NFKBIA (non-ER binding)

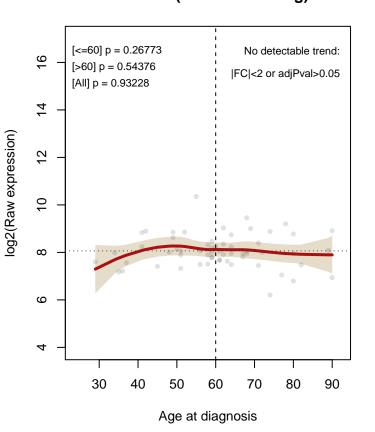
### NFKBIB (non-ER binding)

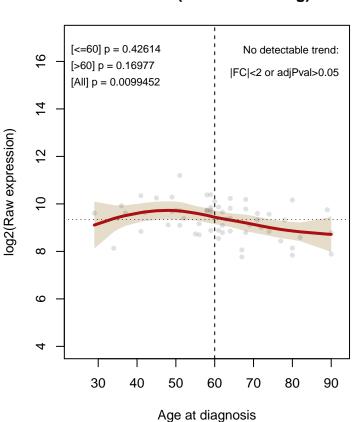




# **NFKBIE** (non-ER binding)

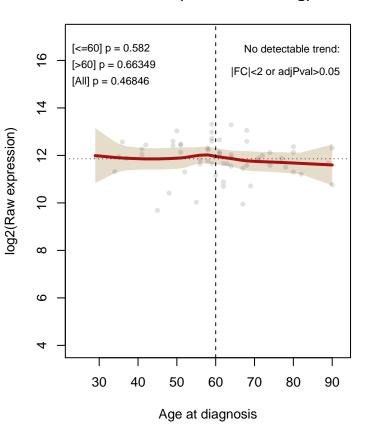
### NOTCH1 (non-ER binding)

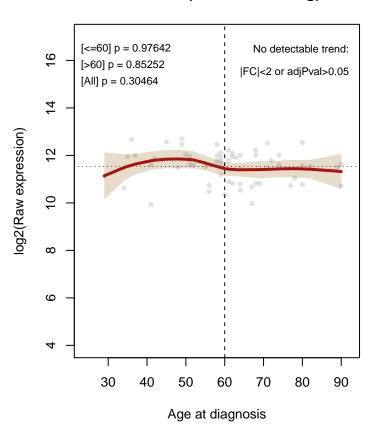




### **NOTCH2** (non-ER binding)

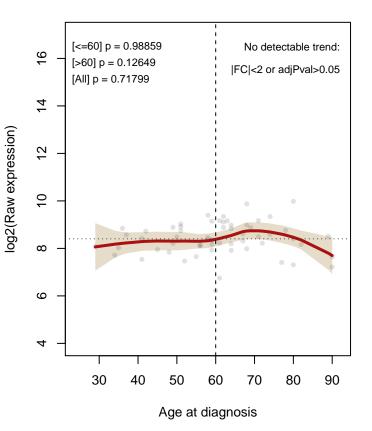
### NOTCH3 (non-ER binding)

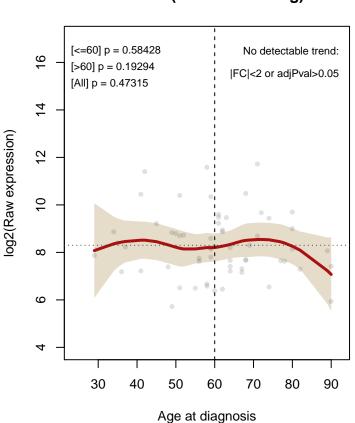


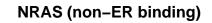


# NOTCH4 (non-ER binding)

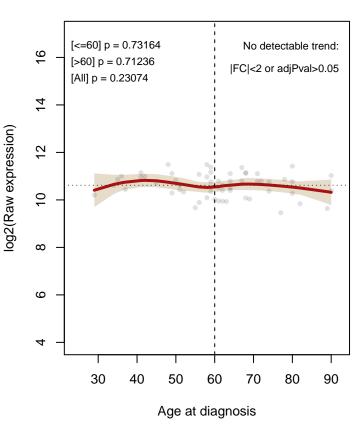
### NR4A2 (non-ER binding)

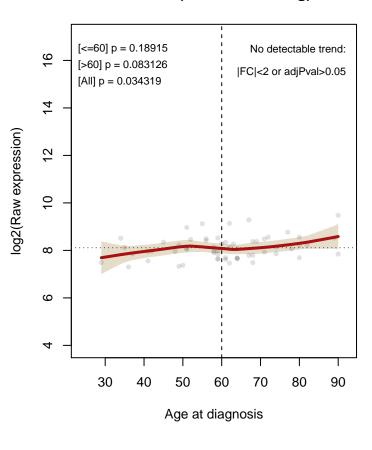






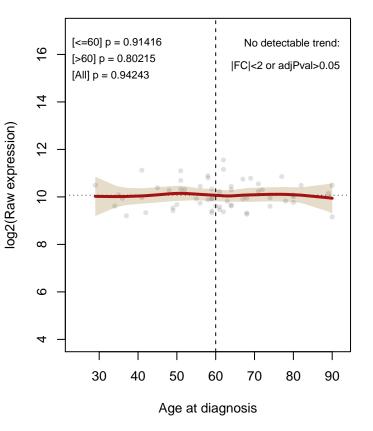
### PCGF1 (non-ER binding)

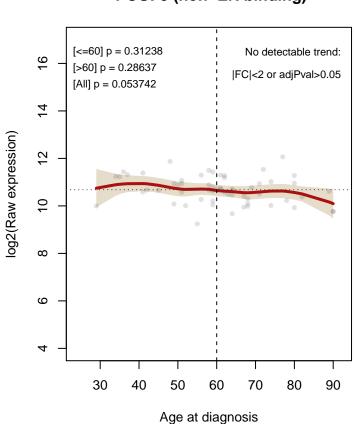


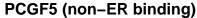


# PCGF2 (non-ER binding)

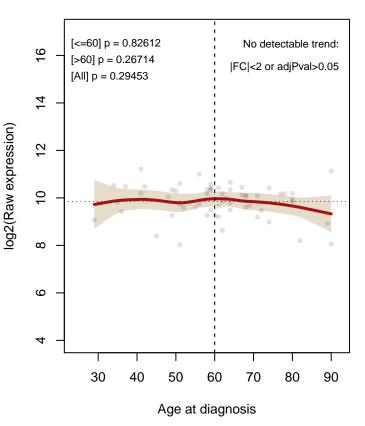
### PCGF3 (non-ER binding)

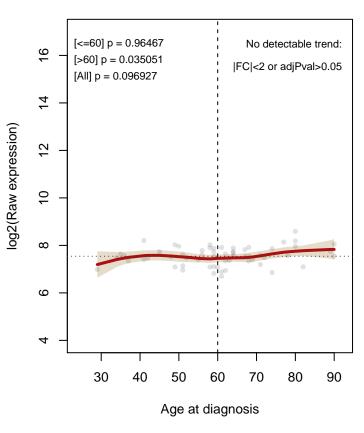






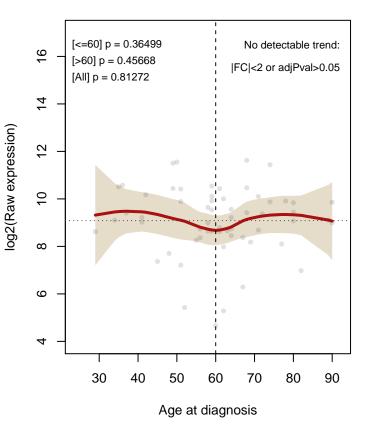
# PCGF6 (non-ER binding)

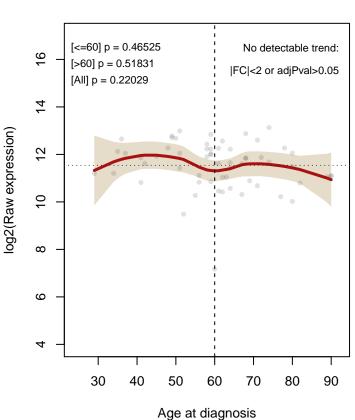




### PDGFRA (non-ER binding)

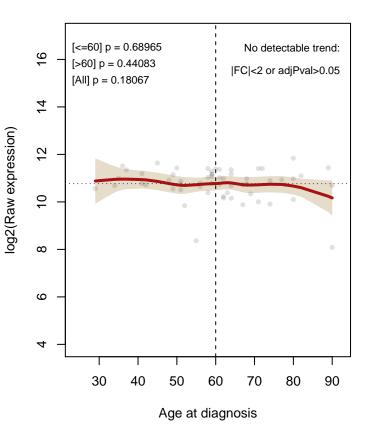
# PDGFRB (non-ER binding)

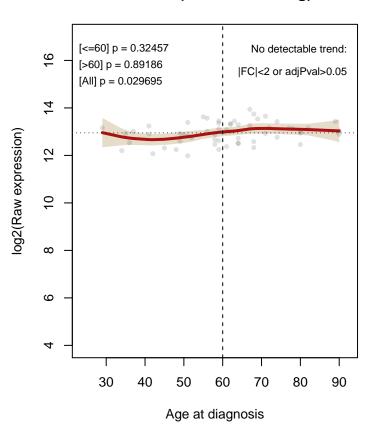






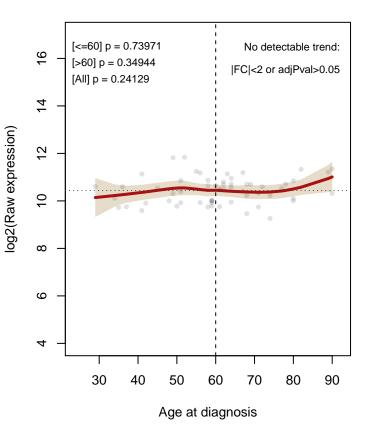
### PEBP1 (non-ER binding)

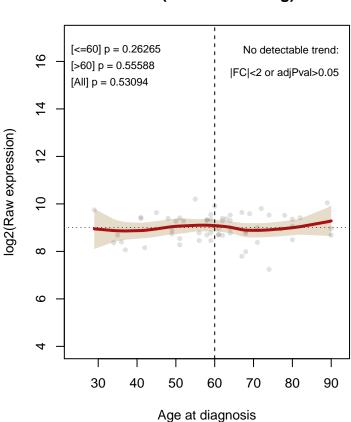


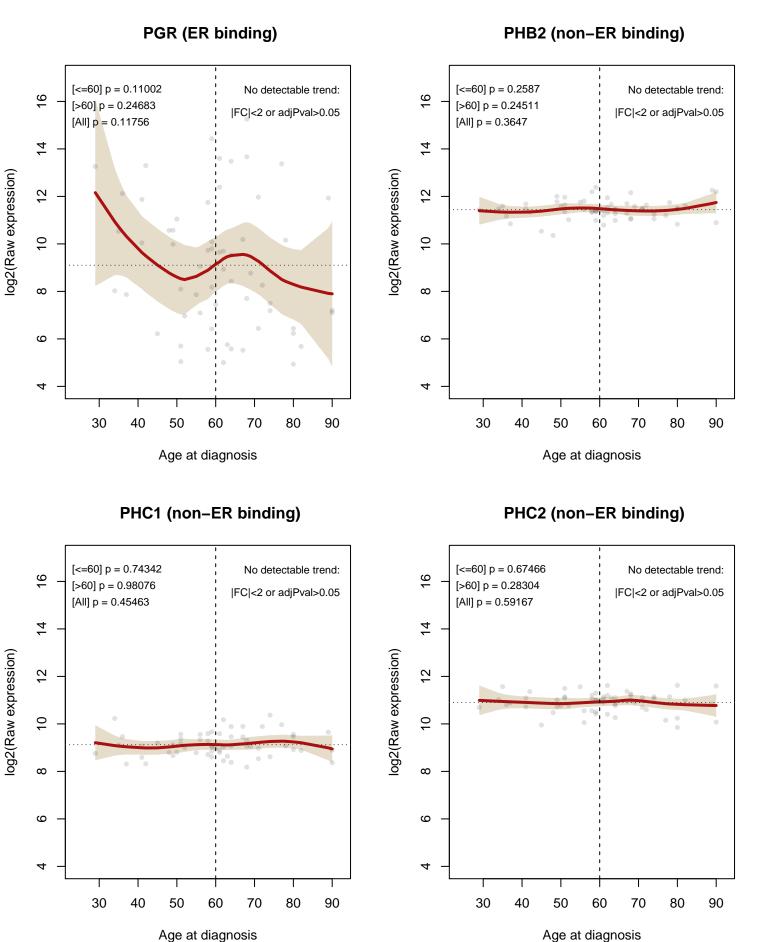


# PELP1 (non-ER binding)

PGP (non-ER binding)







#### PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.73179No detectable trend: [<=60] p = 0.78378No detectable trend: 16 16 [>60] p = 0.98326 [>60] p = 0.38314 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.67113[AII] p = 0.92784 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 = 0.61202No detectable trend: [<=60] p = 0.44199No detectable trend: 16 16 [>60] p = 0.55718 [>60] p = 0.70526|FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.53658[All] p = 0.0840164 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

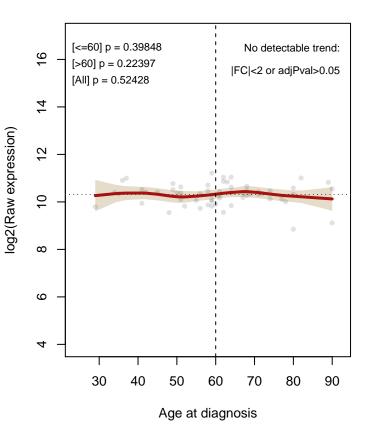
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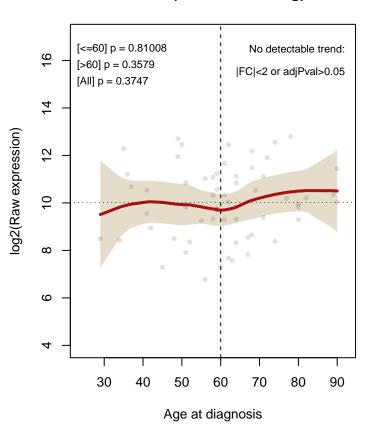
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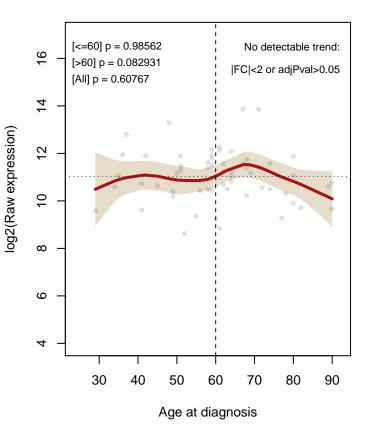
### PLAU (non-ER binding)

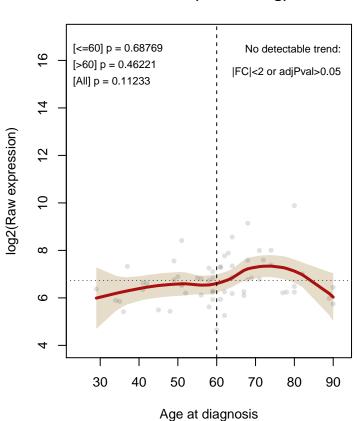


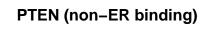


# PODXL (non-ER binding)

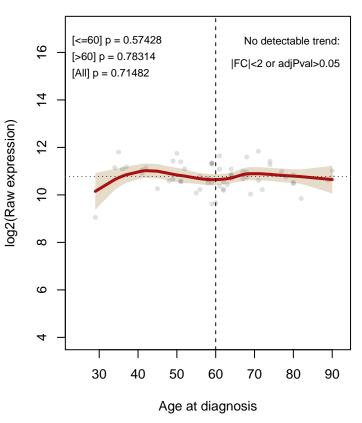
### **PPARG (ER binding)**

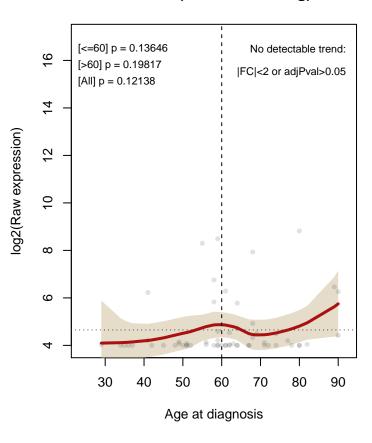






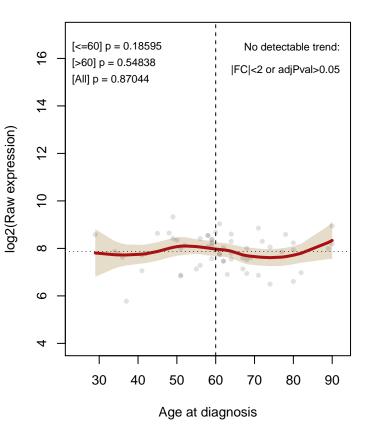
### **PYDC1** (non-ER binding)

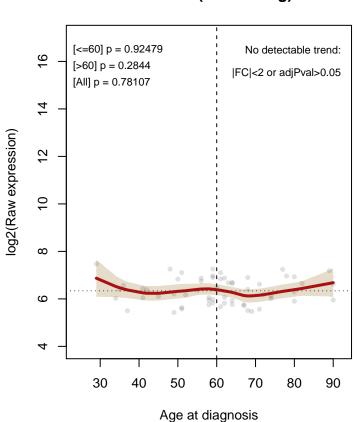




# RAD51 (non-ER binding)

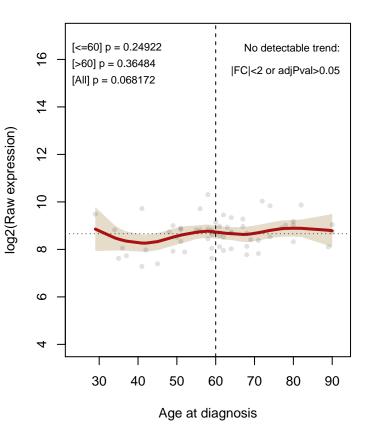
### RAD51B (ER binding)

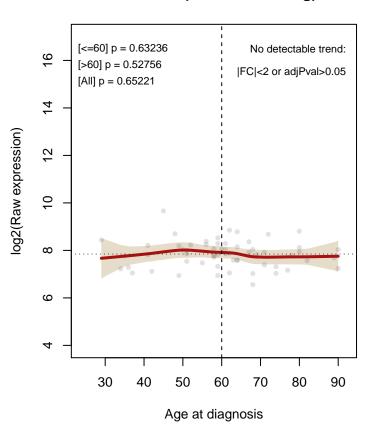




### RAD51C (non-ER binding)

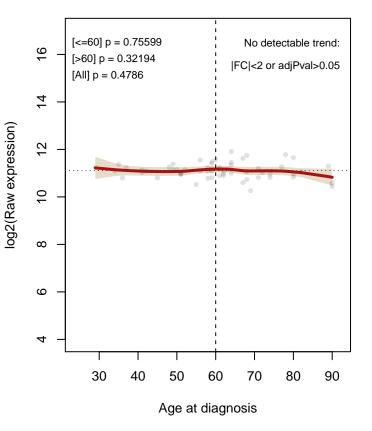
### RAD51D (non-ER binding)

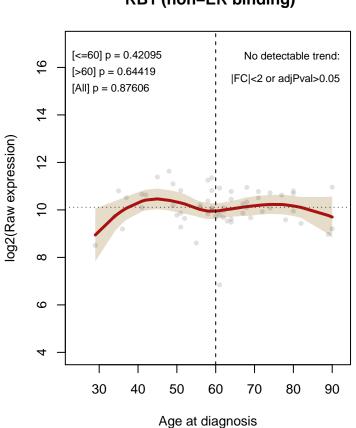


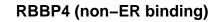


RAF1 (non-ER binding)

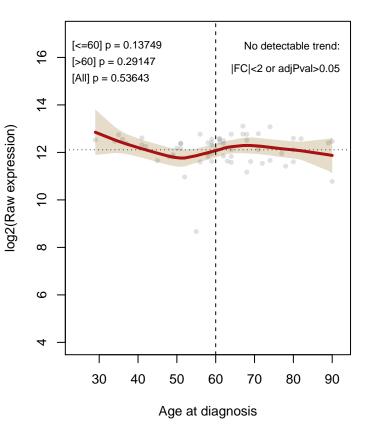
RB1 (non-ER binding)

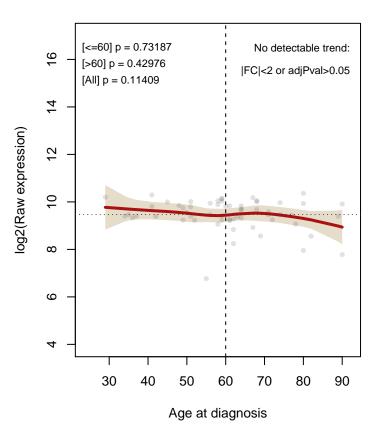






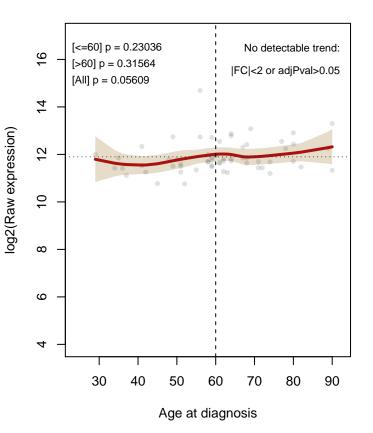
### RBBP5 (non-ER binding)

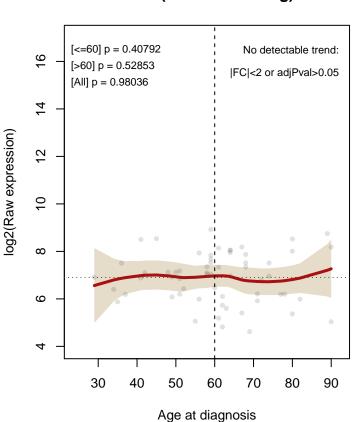


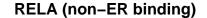


# RBBP7 (non-ER binding)

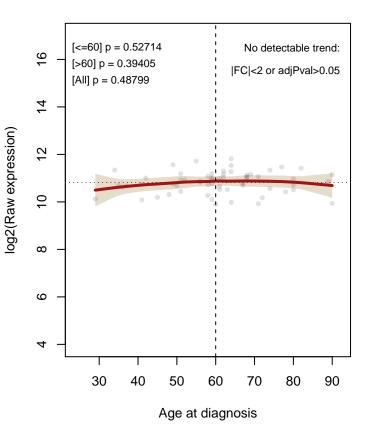
**REL** (non-ER binding)

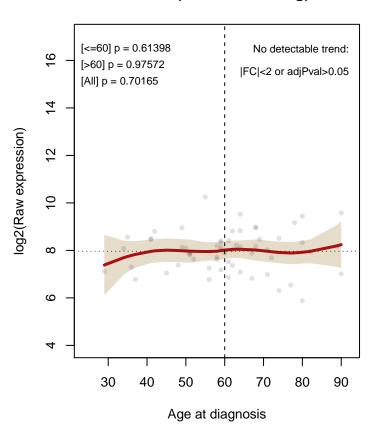






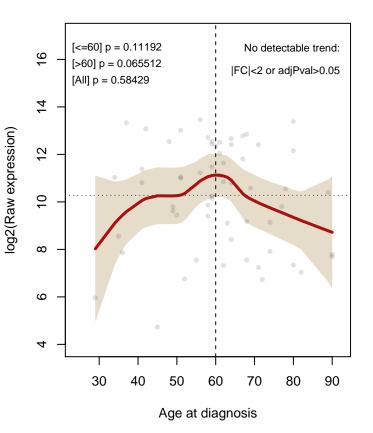
### **RELB** (non-ER binding)

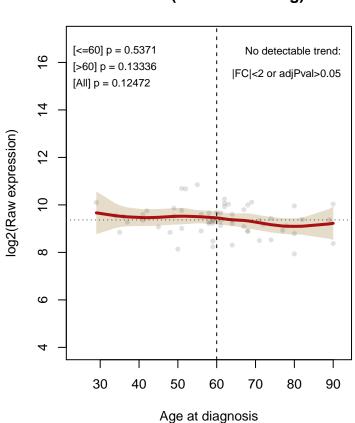




# **RET (ER binding)**

### RING1 (non-ER binding)





### RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.59694No detectable trend: [<=60] p = 0.010356 No detectable trend: 16 16 [>60] p = 0.4497 [>60] p = 0.73913 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.87655[All] p = 0.0406124 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 **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.85988No detectable trend: [<=60] p = 0.27077No detectable trend: 16 16 [>60] p = 0.99931 [>60] p = 0.93782 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.91783[All] p = 0.663884 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

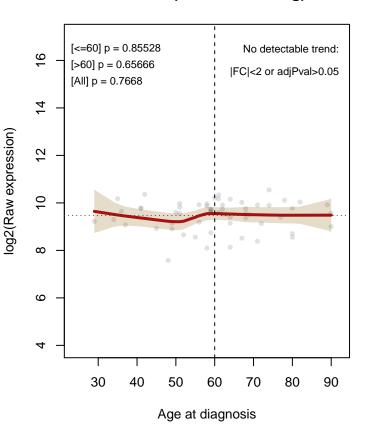
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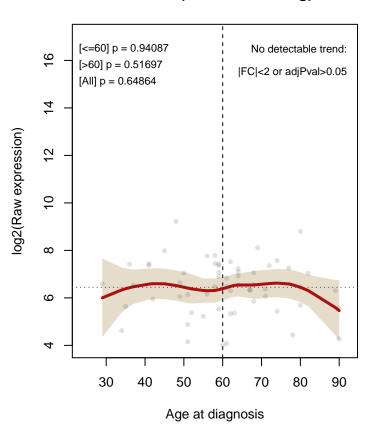
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### SCMH1 (non-ER binding)

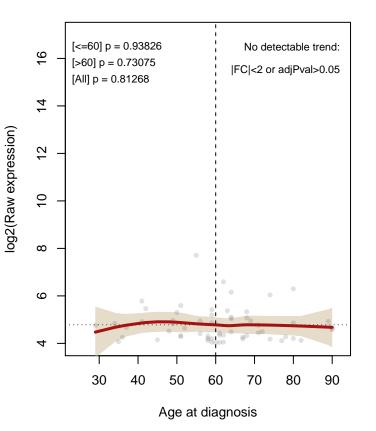
### SCML2 (non-ER binding)

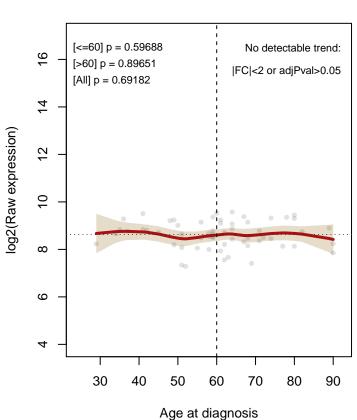




# SCML4 (non-ER binding)

SFMBT1 (ER binding)





#### SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.634No detectable trend: [<=60] p = 0.12637No detectable trend: 16 16 [>60] p = 0.65192 [>60] p = 0.29904 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.61886[All] p = 0.263294 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 SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.49077 No detectable trend: [<=60] p = 0.1707No detectable trend: 16 16 [>60] p = 0.24765 [>60] p = 0.17279 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.25846[All] p = 0.267894 4 log2(Raw expression) log2(Raw expression) 12 12 10 10

ω

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Age at diagnosis

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ω

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Age at diagnosis

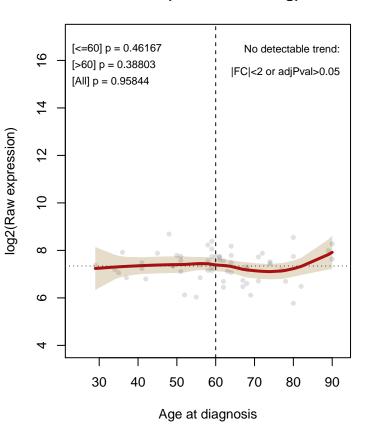
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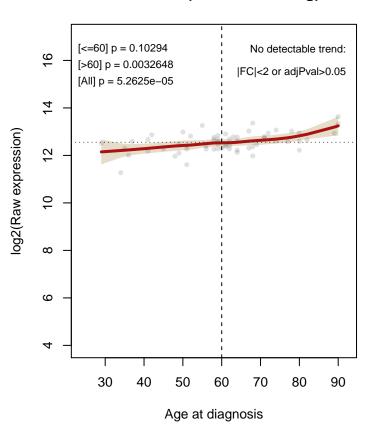
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### SKP2 (non-ER binding)

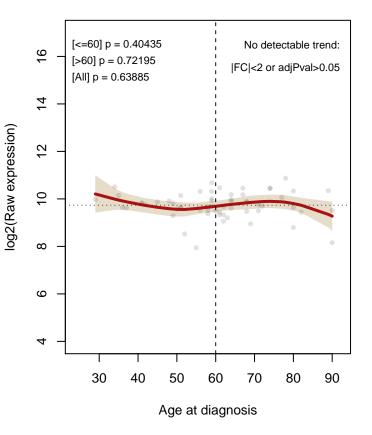
### SLC25A3 (non-ER binding)

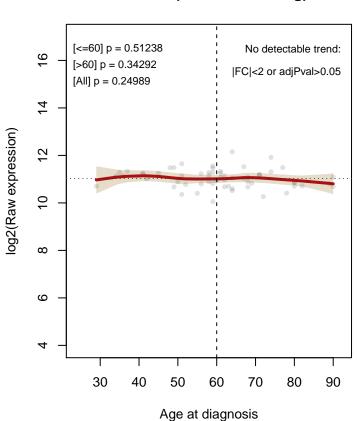




# SMAD1 (non-ER binding)

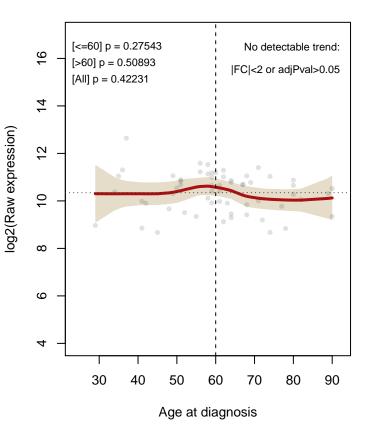
### SMAD2 (non-ER binding)

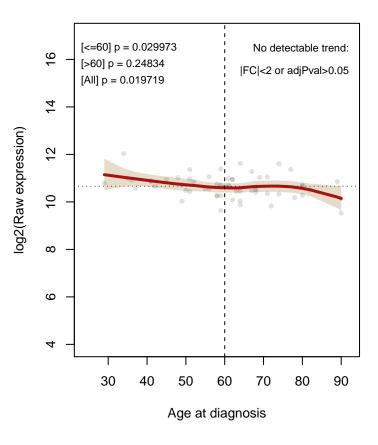






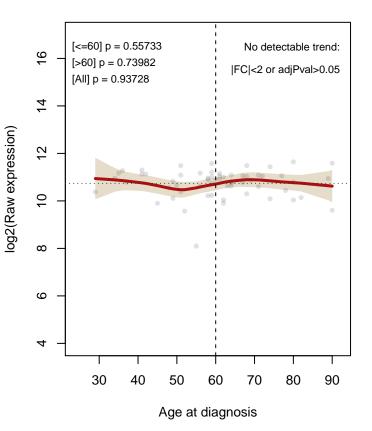
### SMAD4 (non-ER binding)

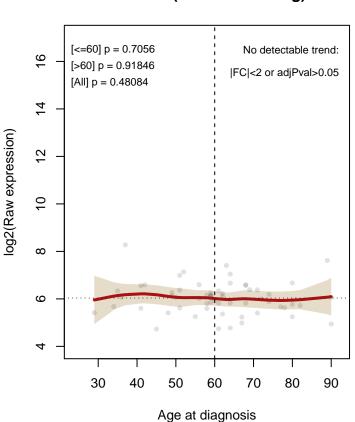


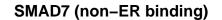


# SMAD5 (non-ER binding)

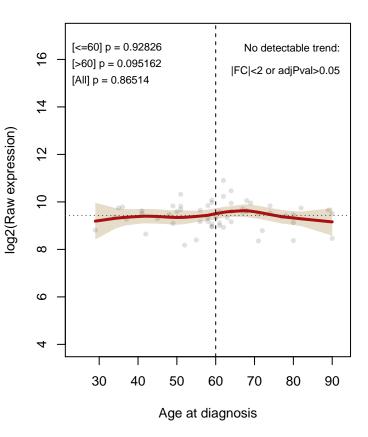
### SMAD6 (non-ER binding)

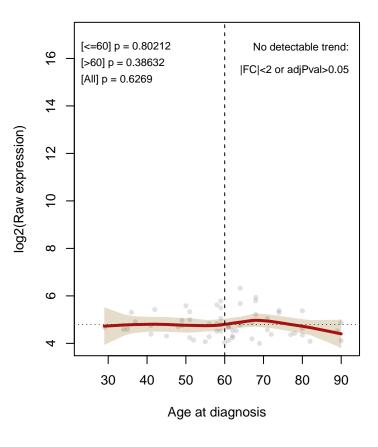






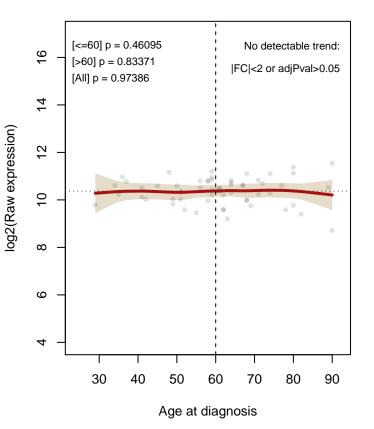
### SMAD9 (non-ER binding)

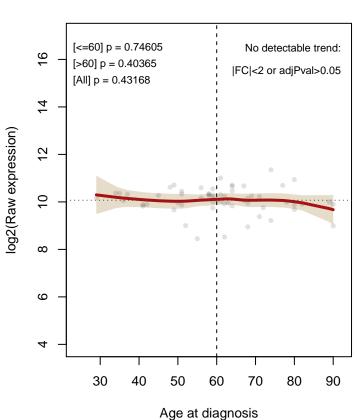


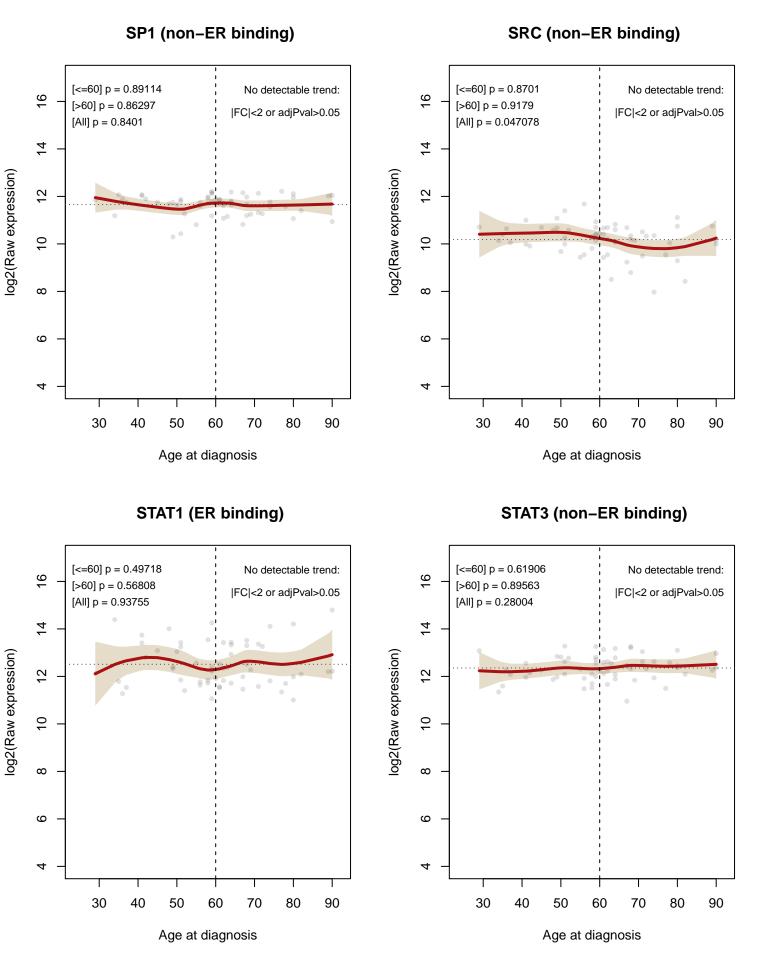


SOS1 (non-ER binding)

SOS2 (non-ER binding)

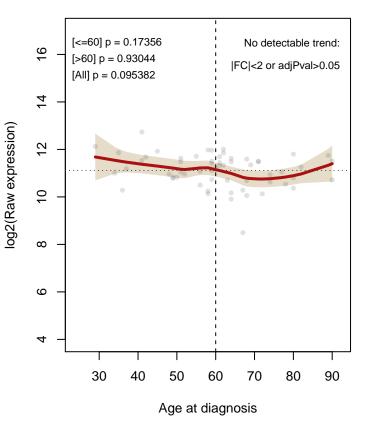


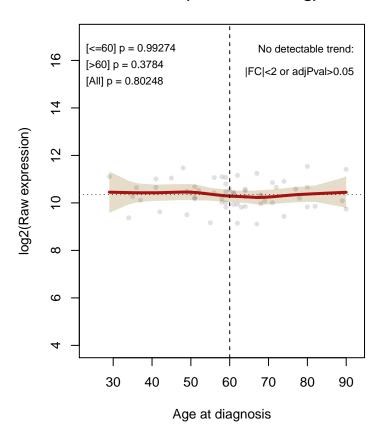






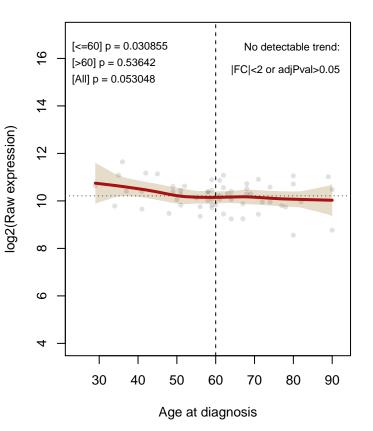
### SUZ12 (non-ER binding)

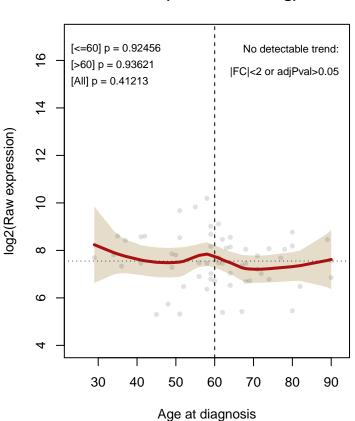




TCF3 (non-ER binding)

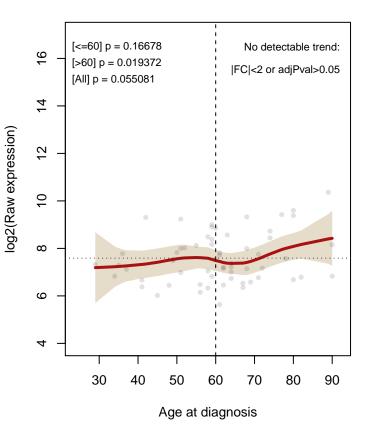
TCF7 (non-ER binding)

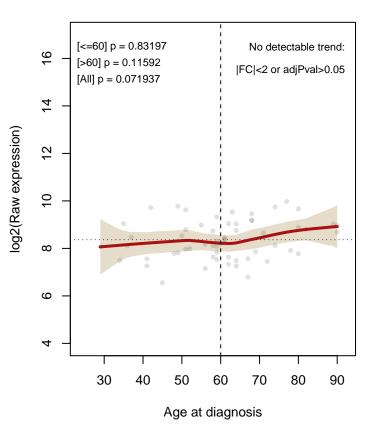






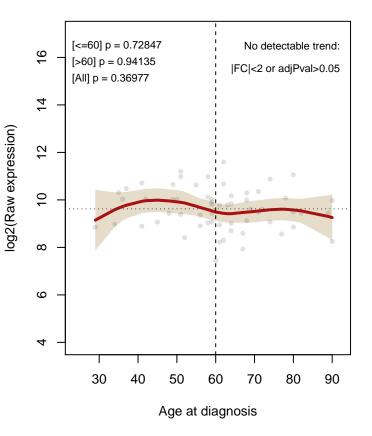
# TCF7L2 (non-ER binding)

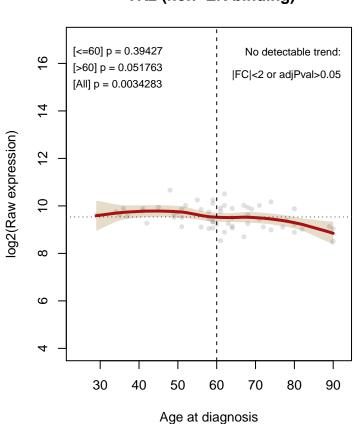


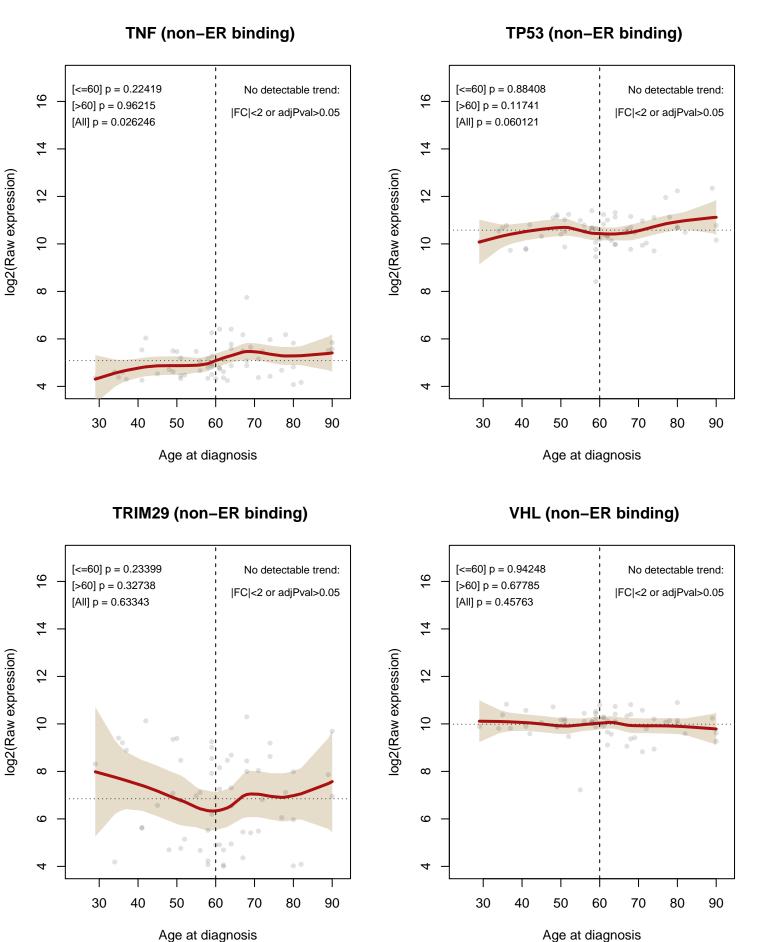


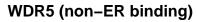
# TGFB1 (non-ER binding)

TK2 (non-ER binding)









#### [<=60] p = 0.14656No detectable trend: [>60] p = 0.75402 |FC|<2 or adjPval>0.05



16

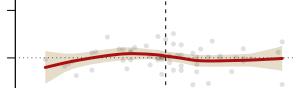
12

19

30

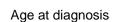
40

log2(Raw expression)





50



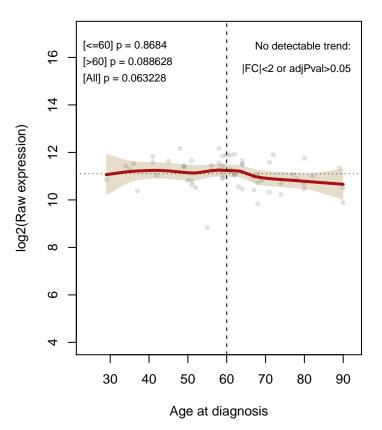
60

70

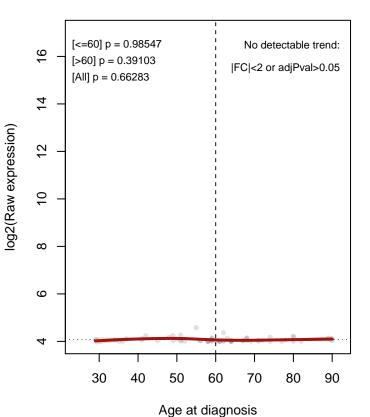
80

90

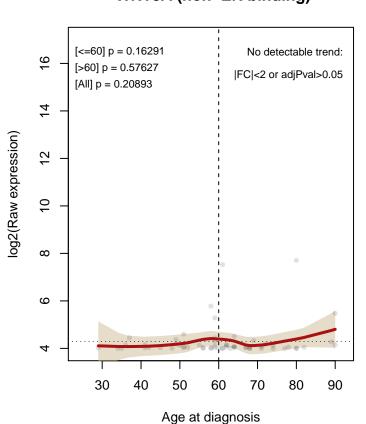
# WHSC1 (non-ER binding)

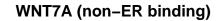


# WNT1 (non-ER binding)

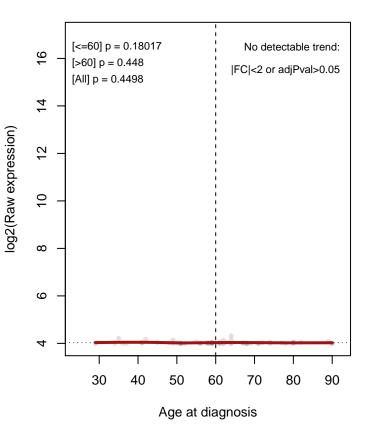


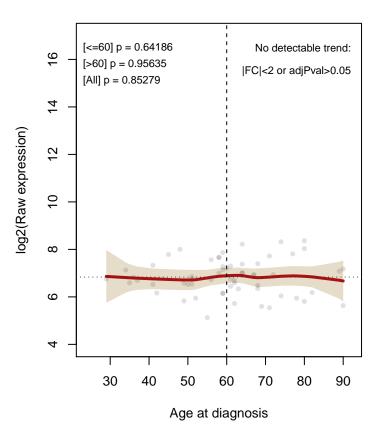
## WNT3A (non-ER binding)





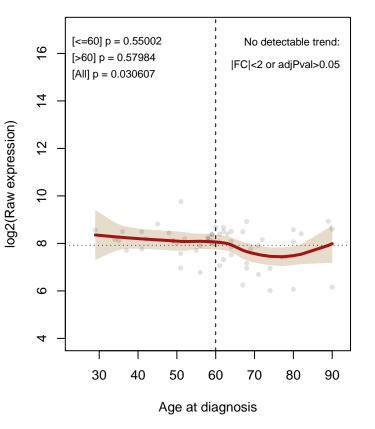
### XRCC2 (non-ER binding)

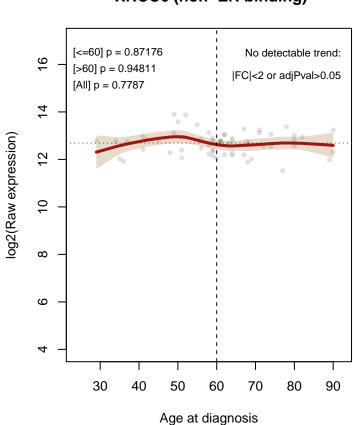




# XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

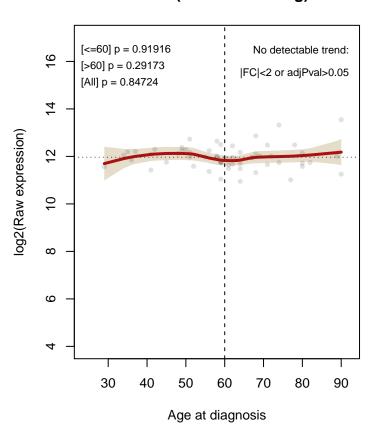




## YAF2 (non-ER binding)

# 

# YBX1 (non-ER binding)



# YY1 (non-ER binding)

Age at diagnosis

