

#### ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.9488No detectable trend: [<=60] p = 0.98977No detectable trend: 16 16 [>60] p = 0.90067 [>60] p = 0.49739 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.86213[All] p = 0.987284 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 ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.48203No detectable trend: [<=60] p = 0.72979No detectable trend: 16 16 [>60] p = 0.85082[>60] p = 0.91308 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.29986[All] p = 0.974044 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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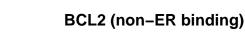
60

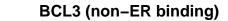
Age at diagnosis

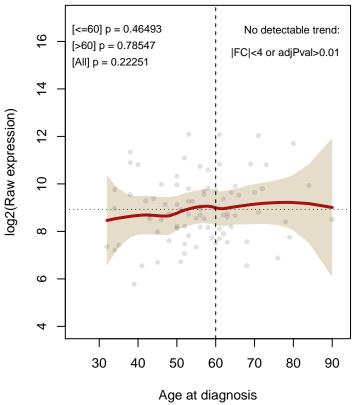
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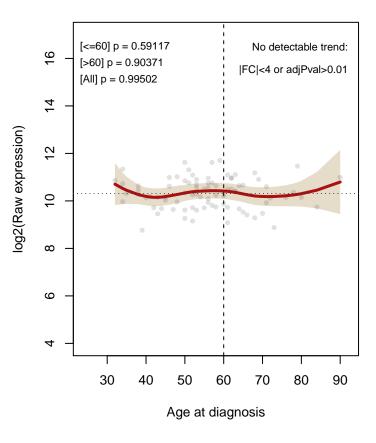
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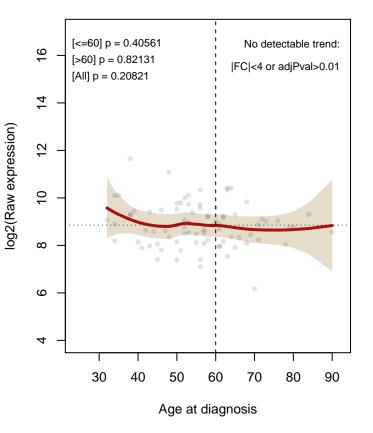


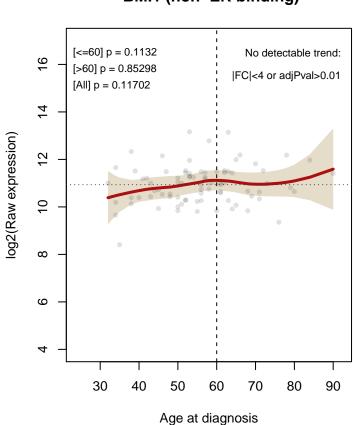




**BIRC5** (non-ER binding)

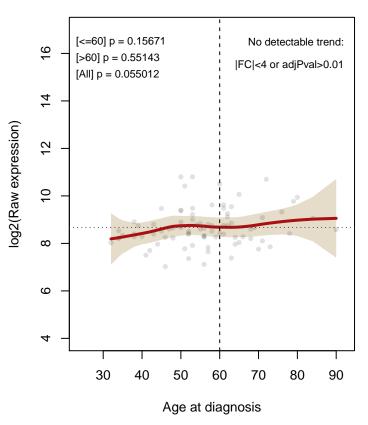
**BMI1 (non-ER binding)** 





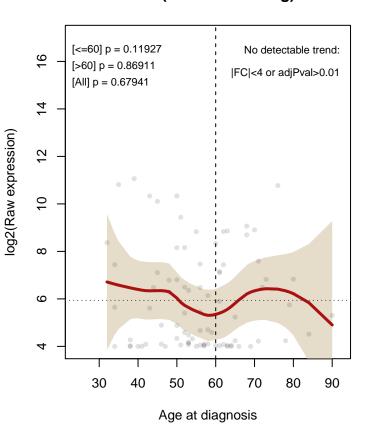
# BMX (non-ER binding) [<=60] p = 0.58261No detectable trend: 16 [>60] p = 0.87881 |FC|<4 or adjPval>0.01 [All] p = 0.623214 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

# BRCA1 (non-ER binding)

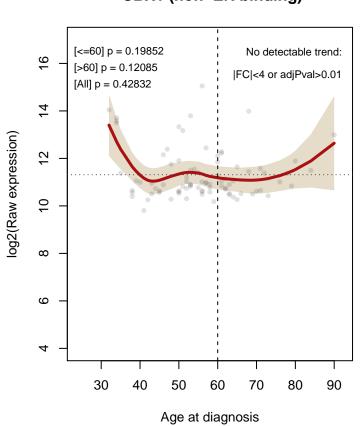


CA9 (non-ER binding)

Age at diagnosis

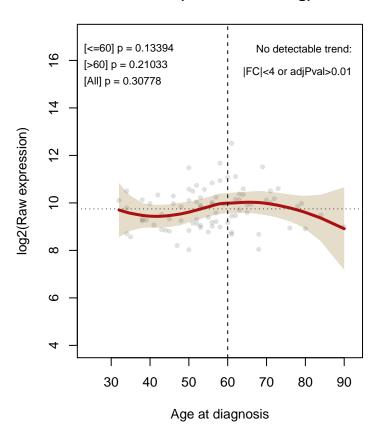


# CBX1 (non-ER binding)

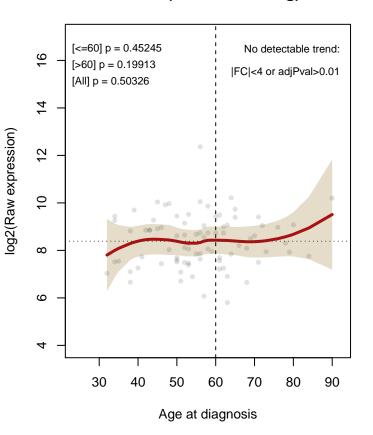


# 

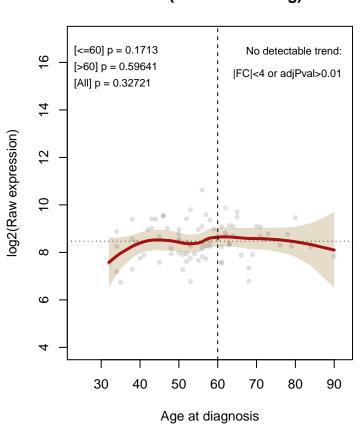
# CBX4 (non-ER binding)

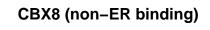


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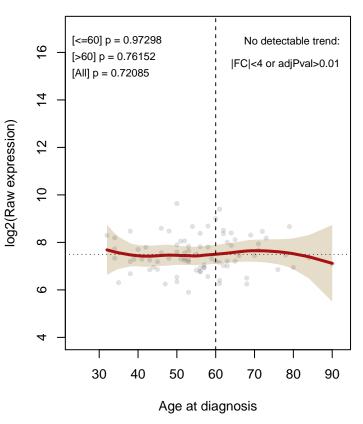


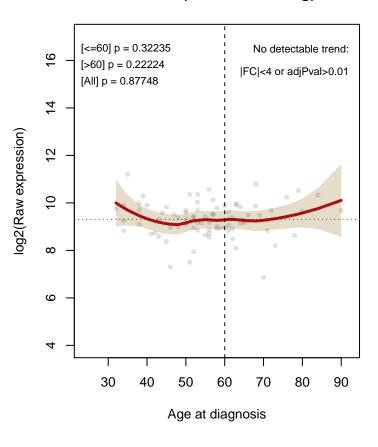
# CBX7 (non-ER binding)





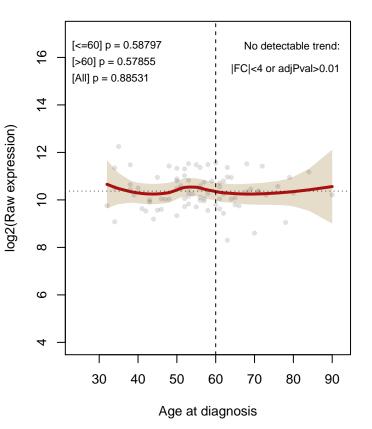
### CCNA2 (non-ER binding)

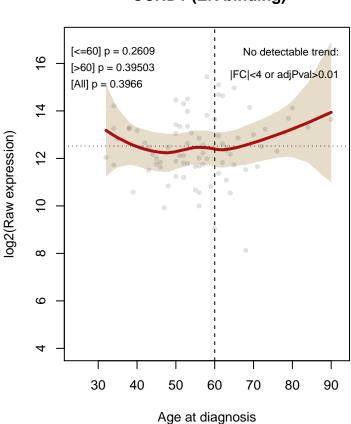


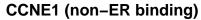


# CCNB1 (non-ER binding)

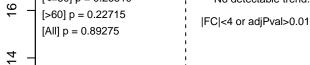
**CCND1 (ER binding)** 

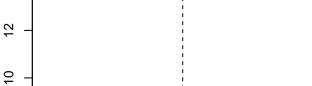






# [<=60] p = 0.26519No detectable trend:





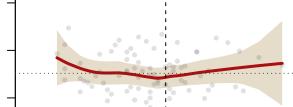
log2(Raw expression)

ω

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Age at diagnosis

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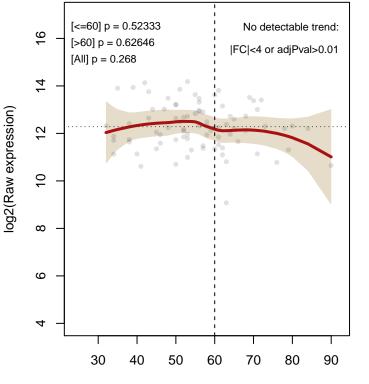
# CD44 (non-ER binding)

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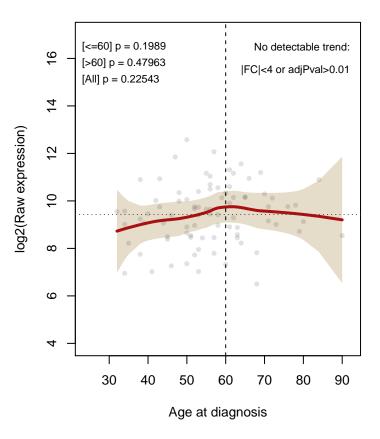
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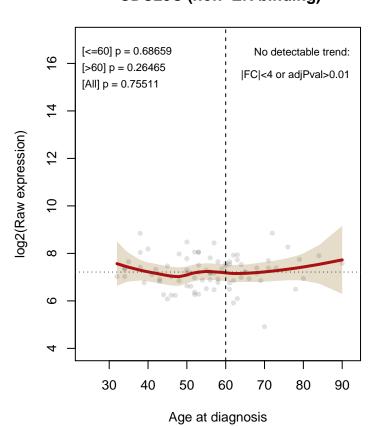


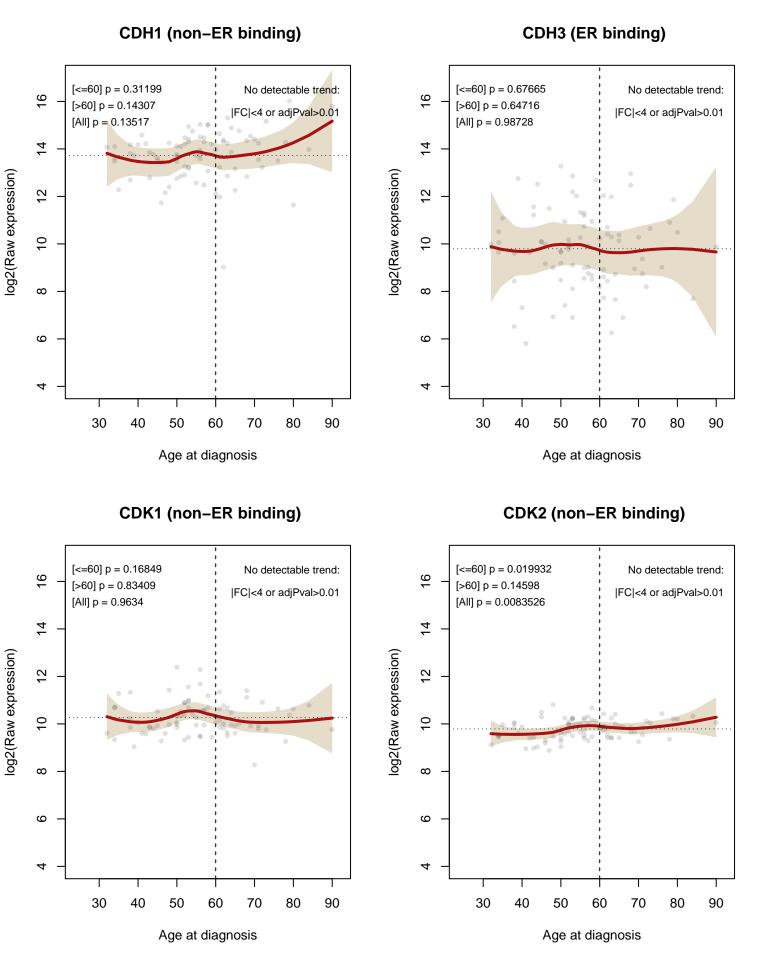
Age at diagnosis

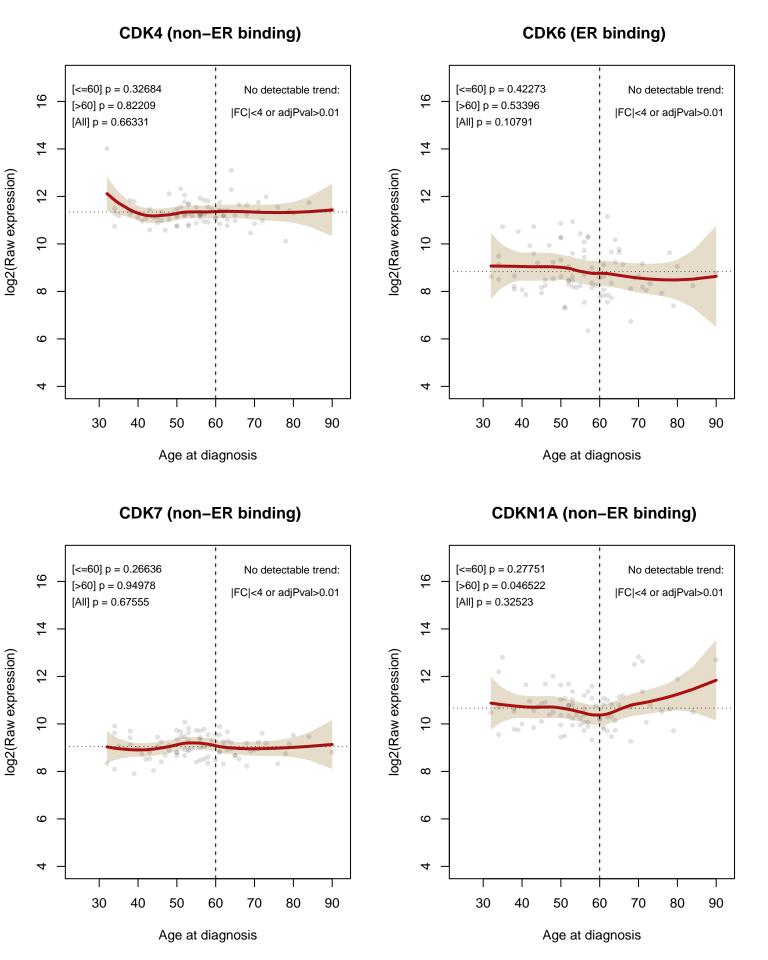
# CD163 (non-ER binding)



# CDC25C (non-ER binding)

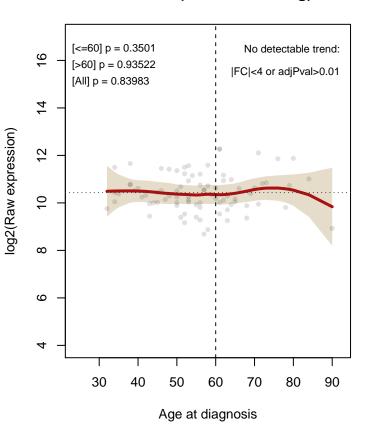


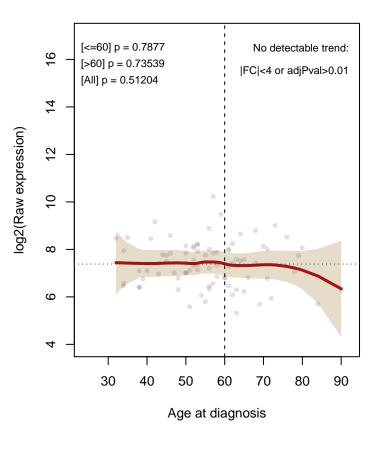




#### **CDKN1B** (non-ER binding)

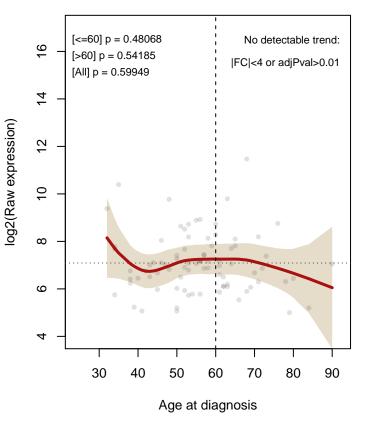
# CDKN1C (non-ER binding)

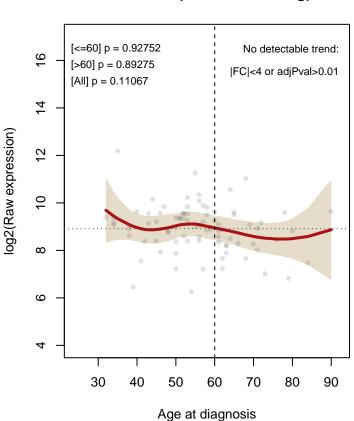




# CDKN2A (non-ER binding)

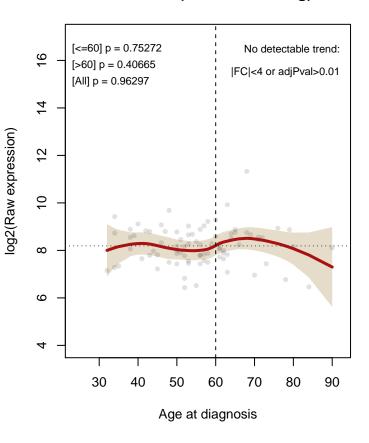
# CDKN2B (non-ER binding)

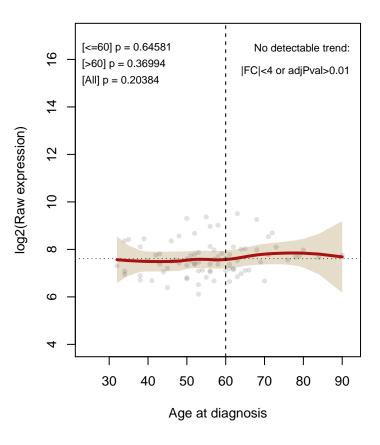




#### CDKN2C (non-ER binding)

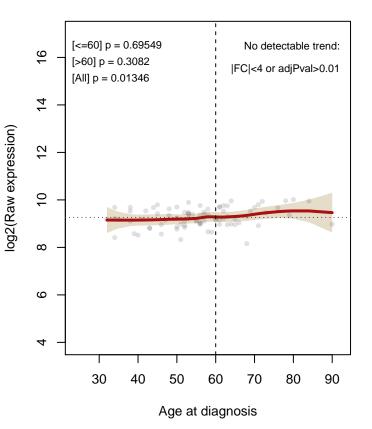
# CDKN2D (non-ER binding)

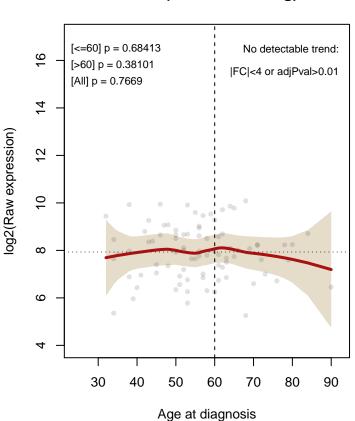




# CHUK (non-ER binding)

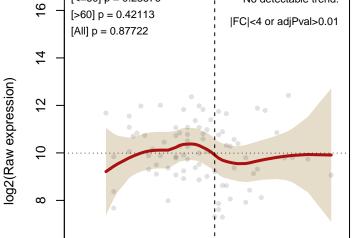
### CIITA (non-ER binding)



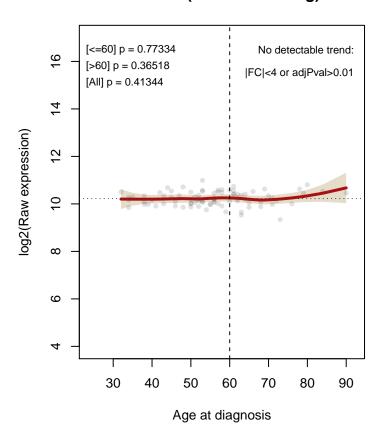




# [<=60] p = 0.28876 No detectable trend:

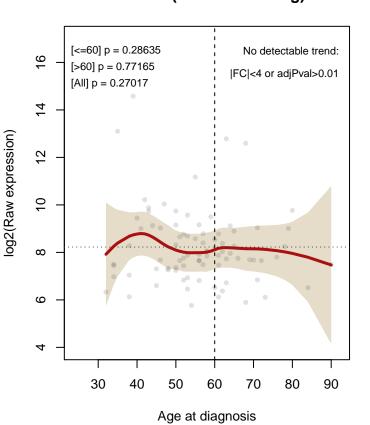


#### CREB1 (non-ER binding)

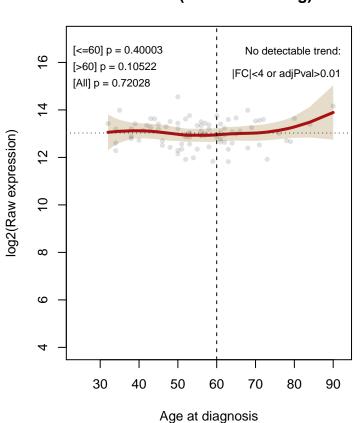


# **CRYAB** (non-ER binding)

Age at diagnosis

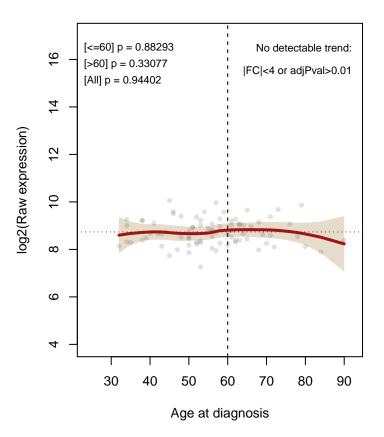


# CTNNB1 (non-ER binding)



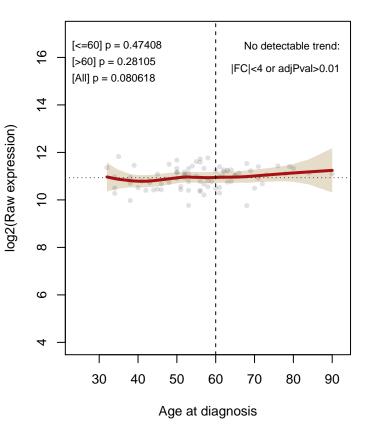
# **DLC1 (ER binding)** [<=60] p = 0.94669No detectable trend: 16 [>60] p = 0.9966|FC|<4 or adjPval>0.01 [All] p = 0.91154 log2(Raw expression) 12 10

# DMAP1 (non-ER binding)

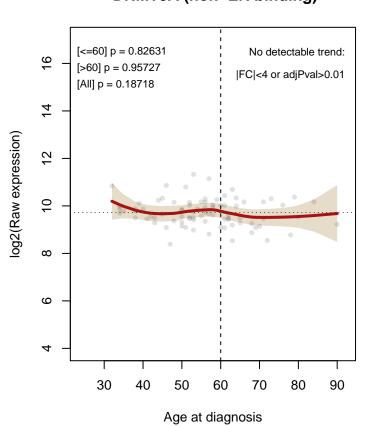


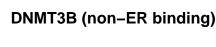
ω 9 30 40 50 60 70 80 90 Age at diagnosis

# **DNMT1** (non-ER binding)

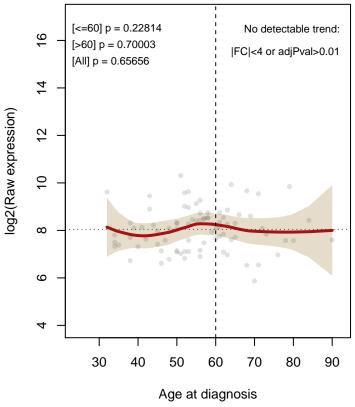


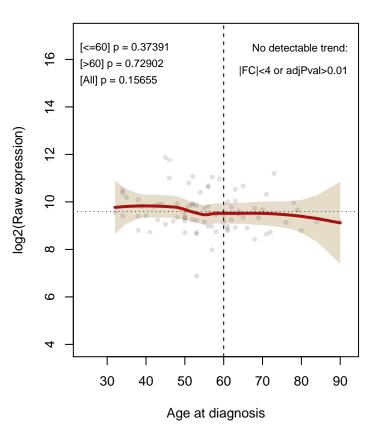
# **DNMT3A (non-ER binding)**





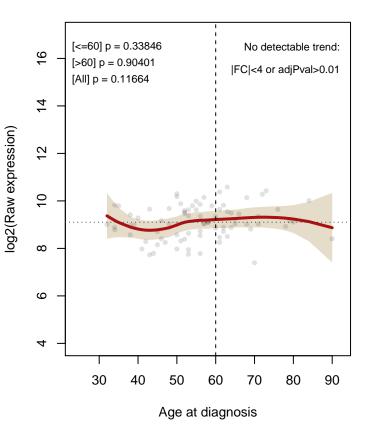
# DVL1 (non-ER binding)

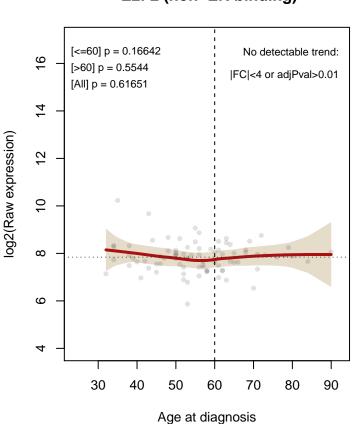


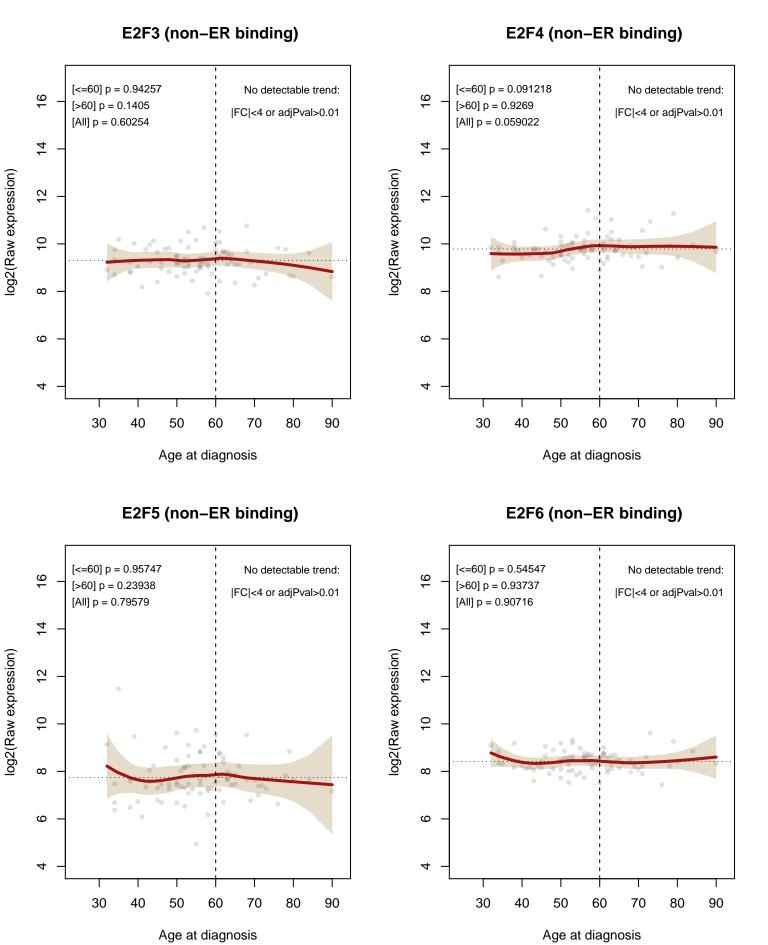


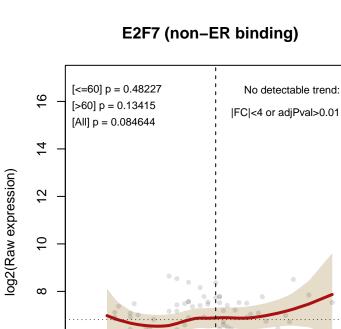
E2F1 (non-ER binding)

E2F2 (non-ER binding)

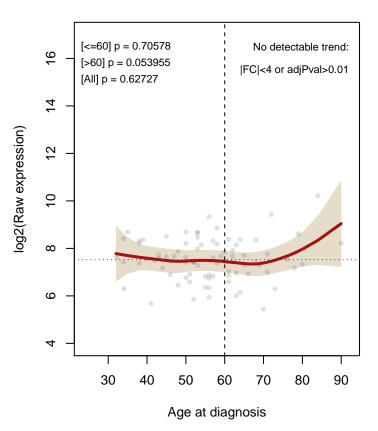






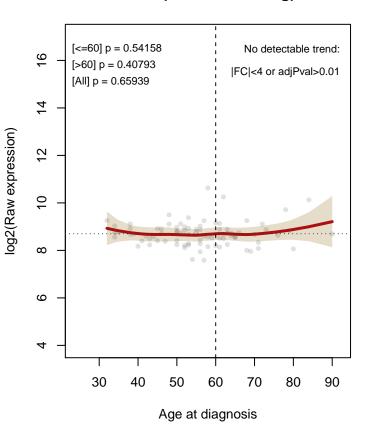


# E2F8 (non-ER binding)

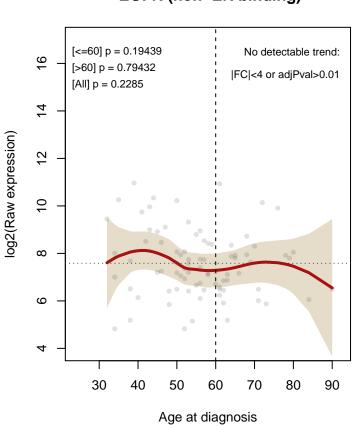


EED (non-ER binding)

Age at diagnosis

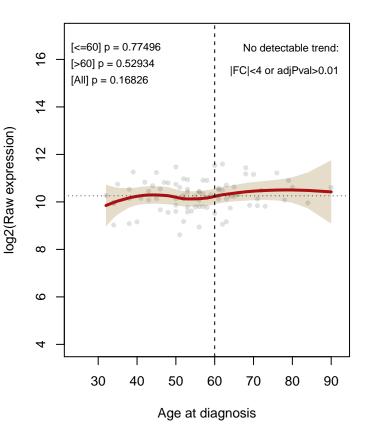


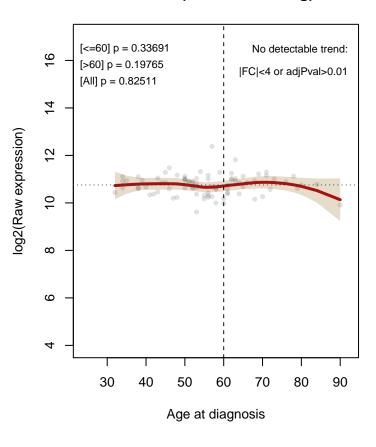
# EGFR (non-ER binding)





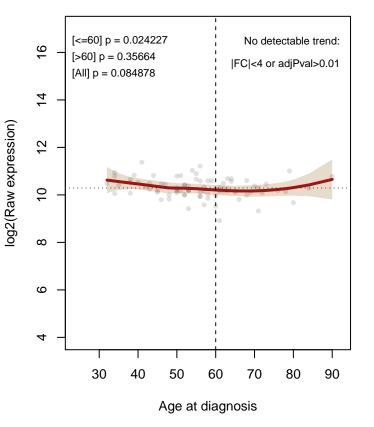
#### **EHMT2** (non-ER binding)

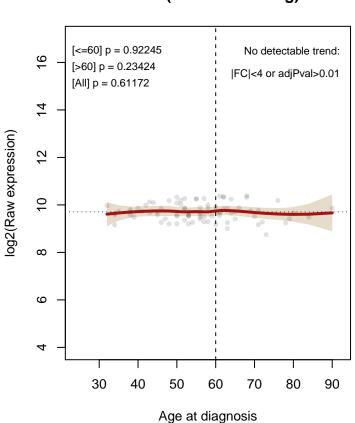


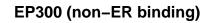


**ELAC2 (non-ER binding)** 

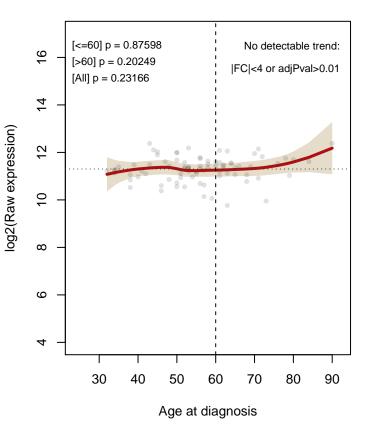
**ELK1 (non-ER binding)** 

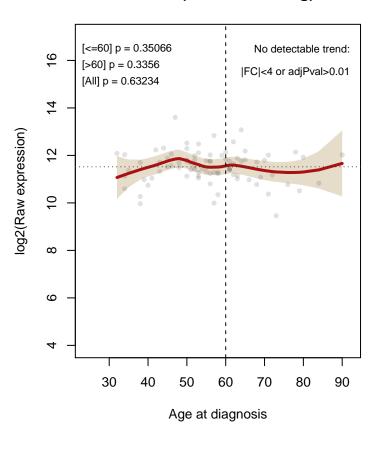






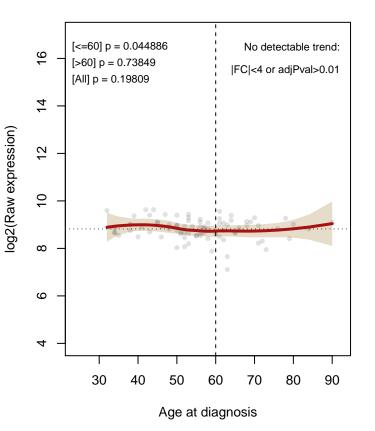
#### **EPAS1** (non-ER binding)

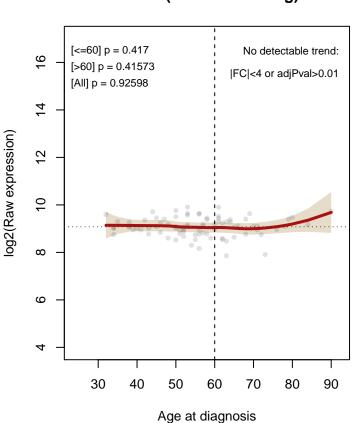




# **EPC1 (non-ER binding)**

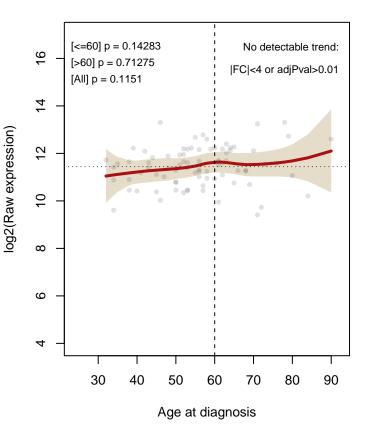
**EPC2** (non-ER binding)

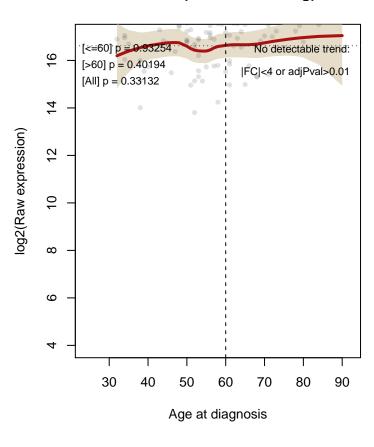






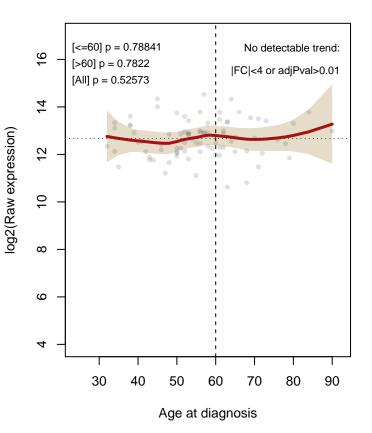
#### ERBB2 (non-ER binding)

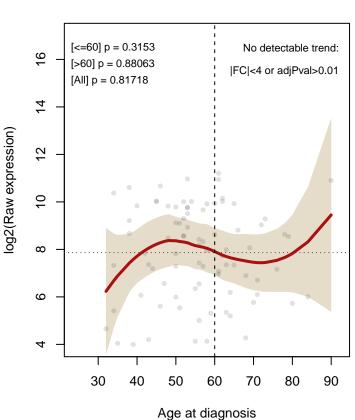


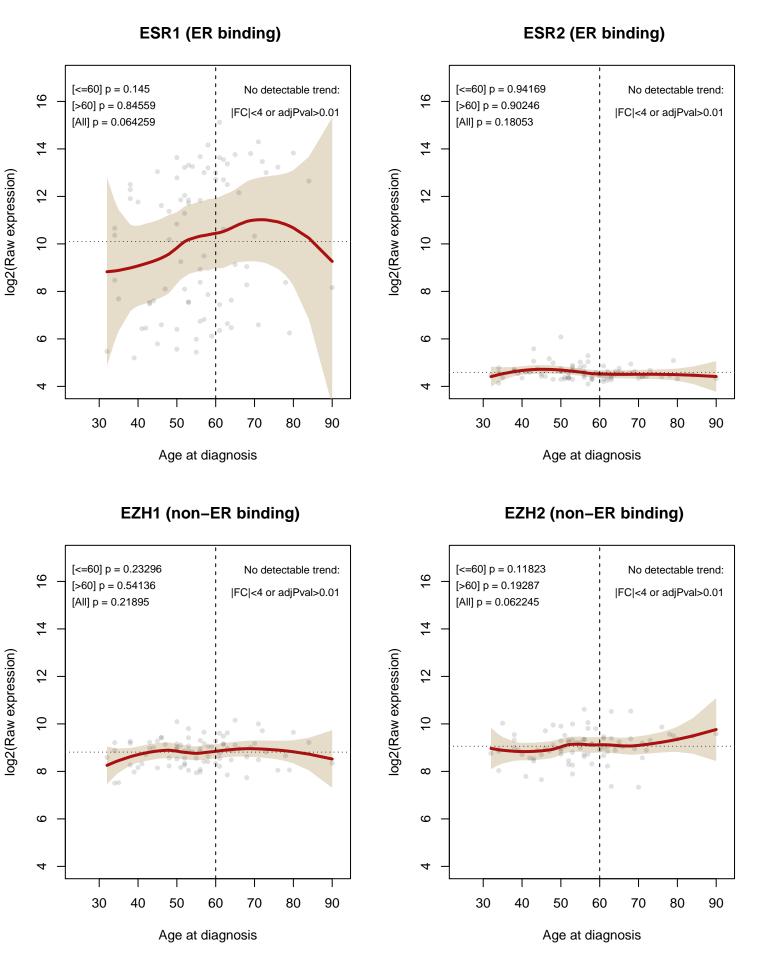


# **ERBB3** (non-ER binding)

**ERBB4 (ER binding)** 

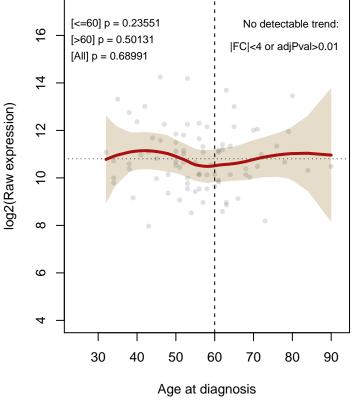


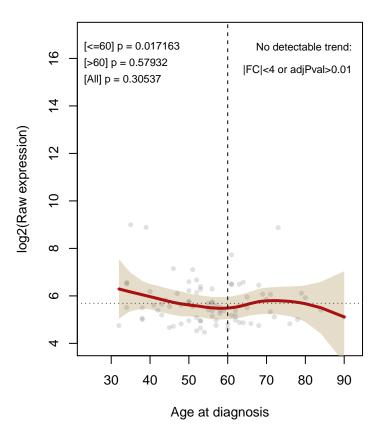




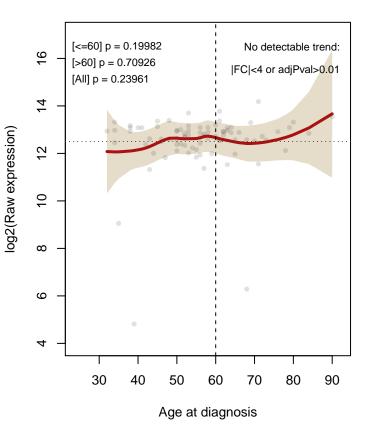
# FOS (non-ER binding) [<=60] p = 0.23551 16 [>60] p = 0.50131 [All] p = 0.68991

# FOSL1 (non-ER binding)

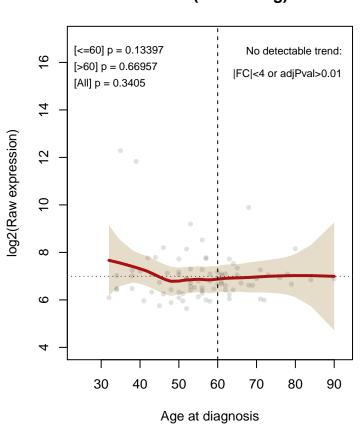


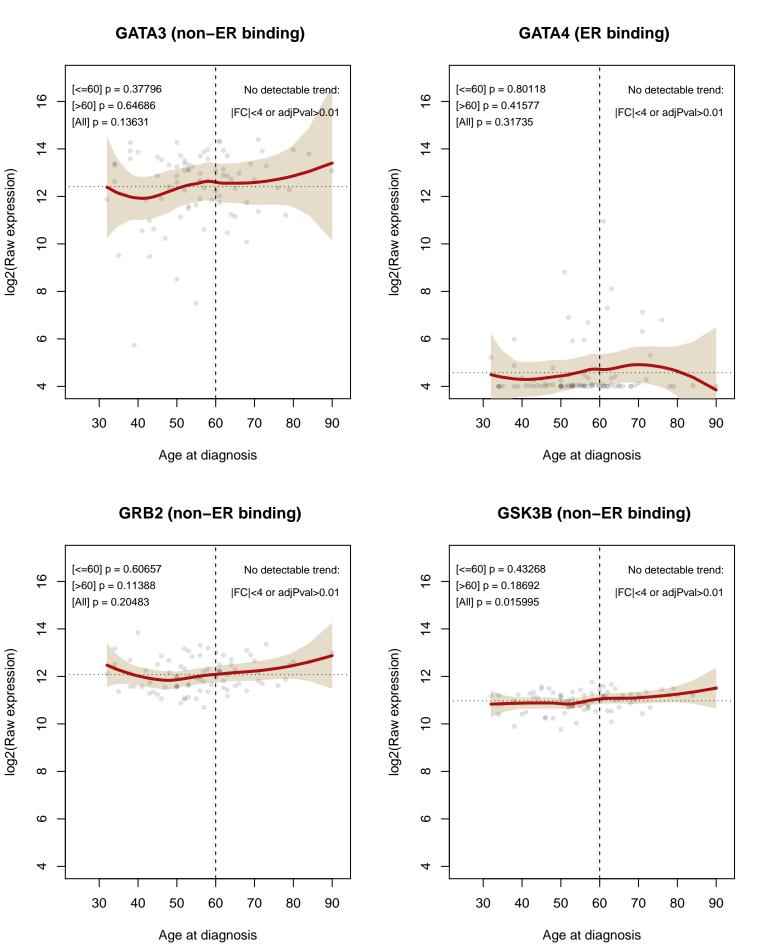


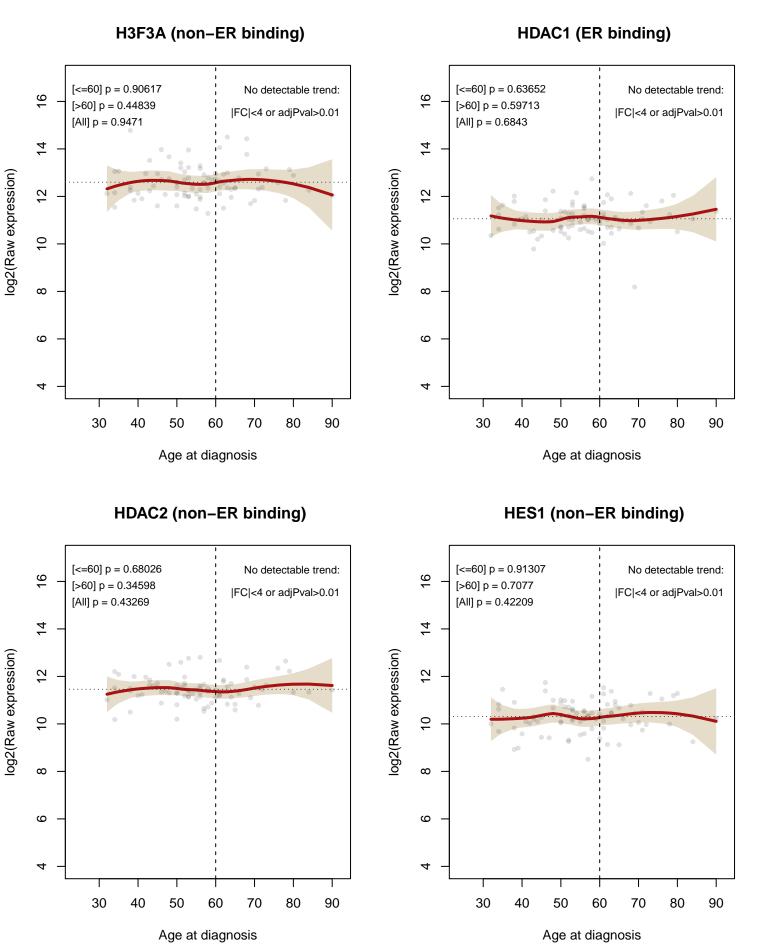
FOXA1 (ER binding)



# **FOXC1 (ER binding)**

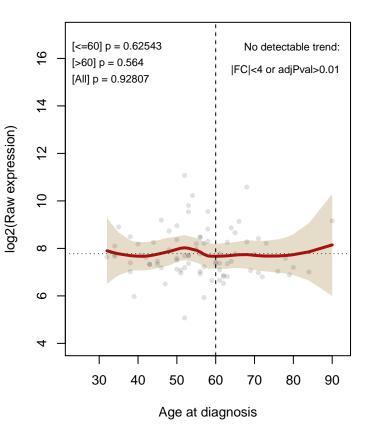


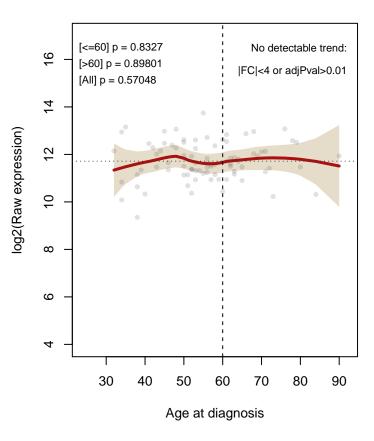






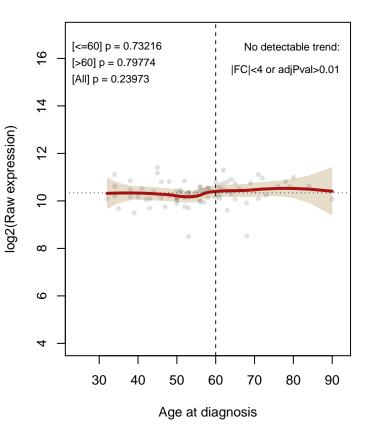
### HIF1A (non-ER binding)

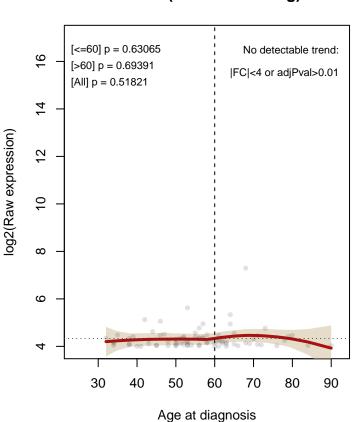




# HIF1AN (non-ER binding)

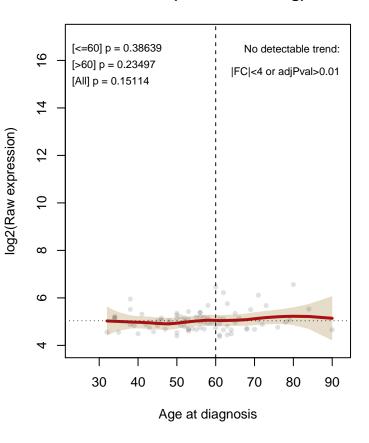
HIF3A (non-ER binding)

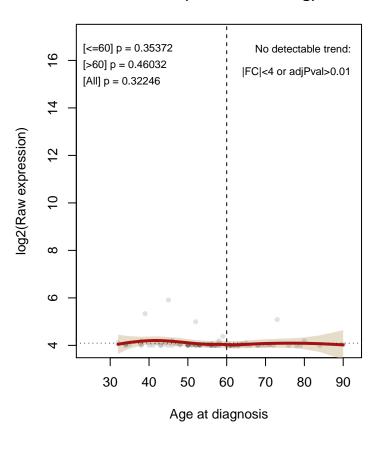




#### **HNF1A** (non-ER binding)

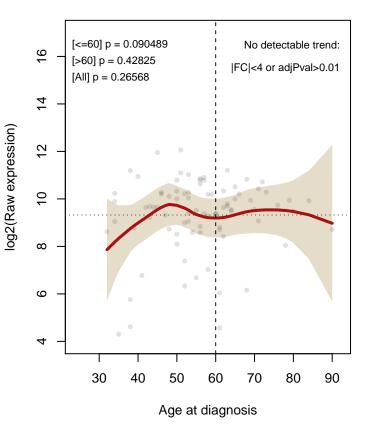
#### HNF1B (non-ER binding)

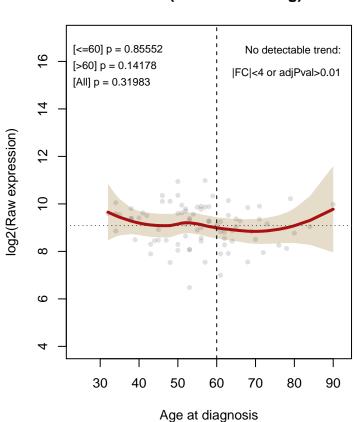




# **HOXC10 (non-ER binding)**

### HRAS (non-ER binding)





# **HSPB1** (non-ER binding) [<=60] p = 0.16693No detectable trend: 16 [>60] p = 0.41988 |FC|<4 or adjPval>0.01 [AII] p = 0.199094 log2(Raw expression) 12 10

ω

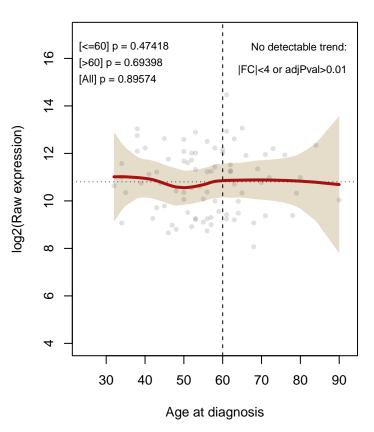
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# IGF1R (ER binding)



IGFBP2 (non-ER binding)

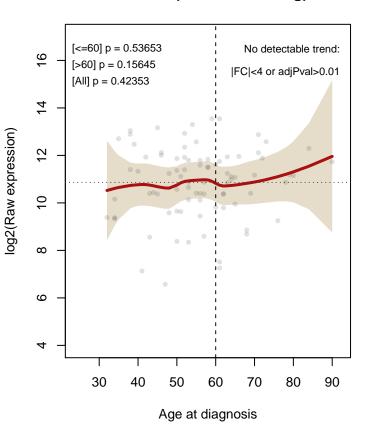
Age at diagnosis

60

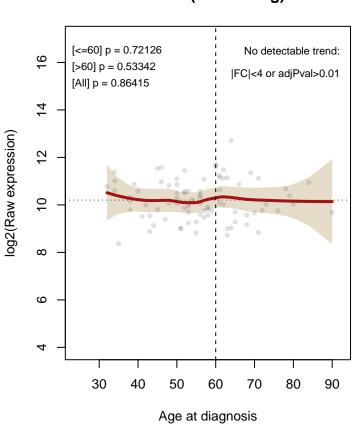
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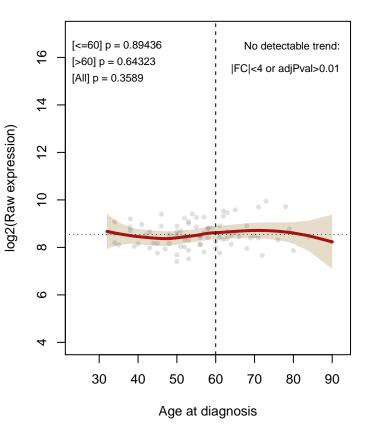


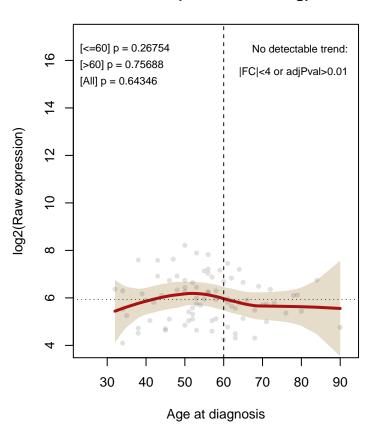
# **IKBKB (ER binding)**





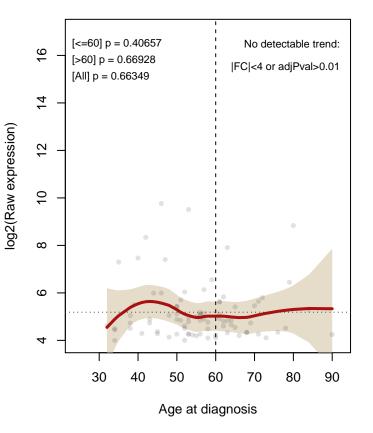
#### IL2RA (non-ER binding)

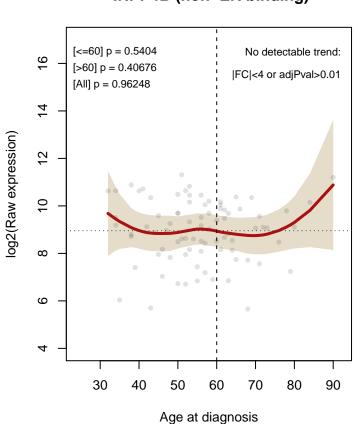


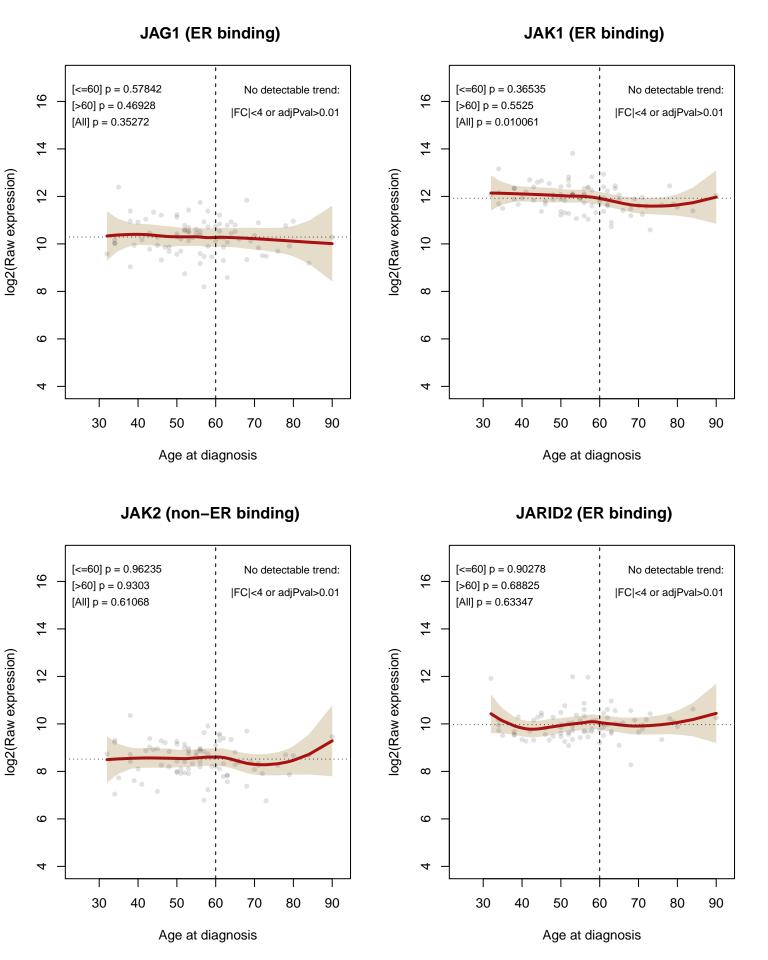


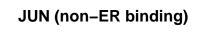
# IL6 (non-ER binding)

**INPP4B** (non-ER binding)

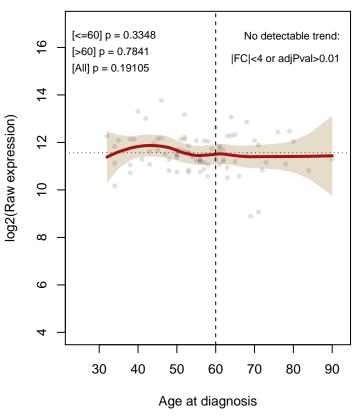


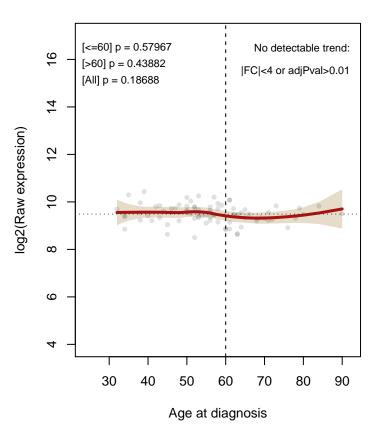






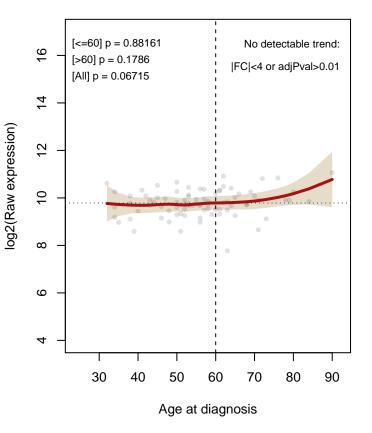
#### KDM2B (non-ER binding)

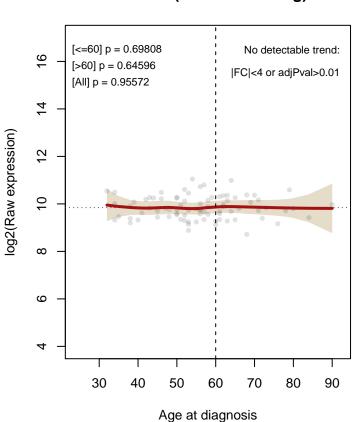




# KDM6A (non-ER binding)

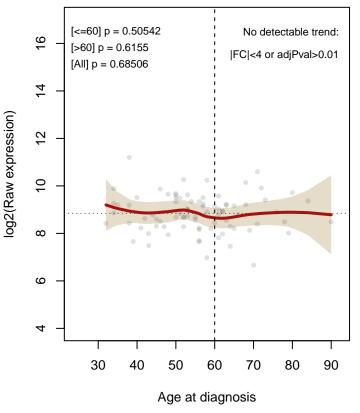
KDM6B (non-ER binding)

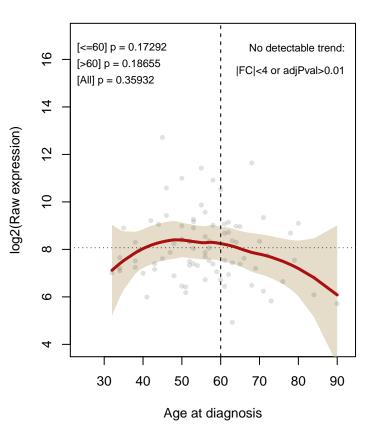






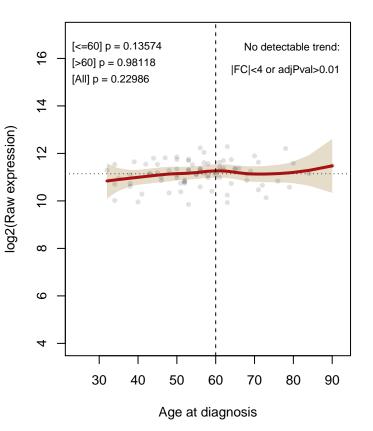
#### KIT (non-ER binding)

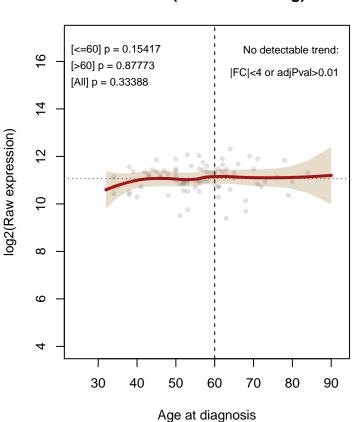




# KMT2C (non-ER binding)

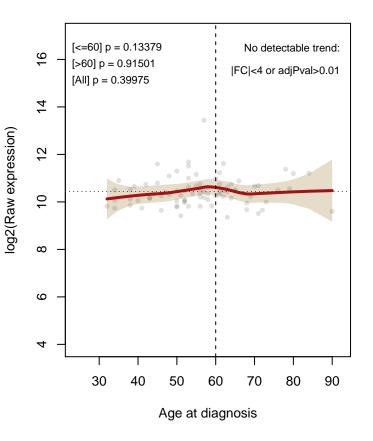
KMT2D (non-ER binding)

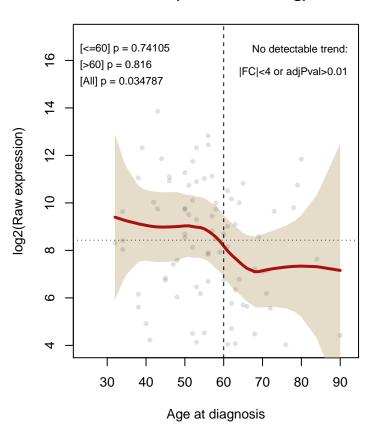






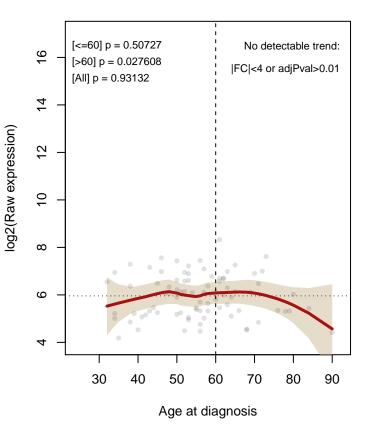
#### KRT5 (non-ER binding)

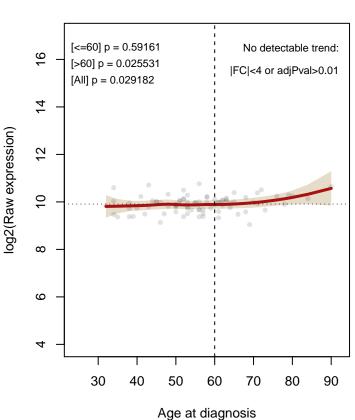




# L3MBTL1 (non-ER binding)

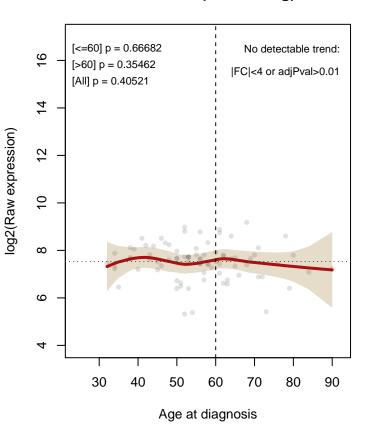
# L3MBTL2 (non-ER binding)

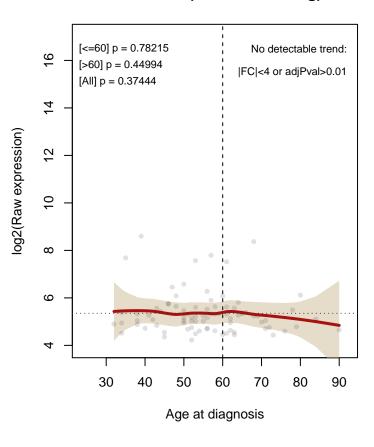




#### L3MBTL3 (ER binding)

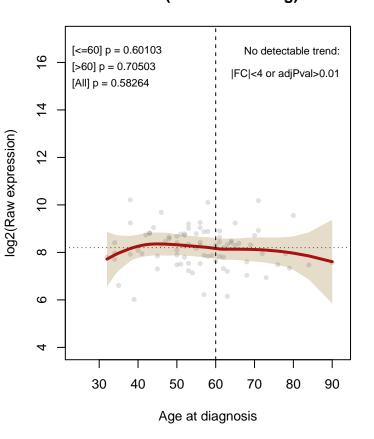
# L3MBTL4 (non-ER binding)

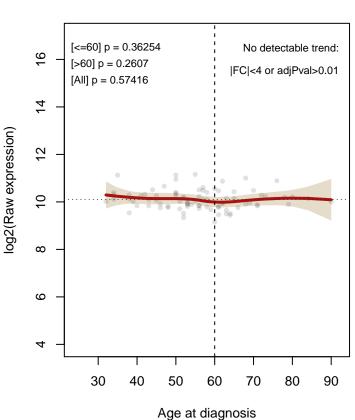




# LEF1 (non-ER binding)

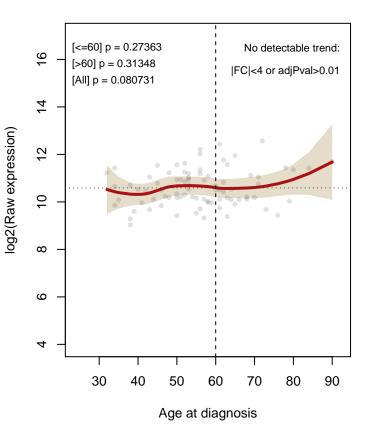
MAP2K1 (non-ER binding)

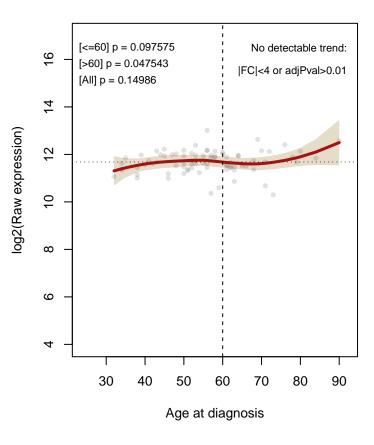






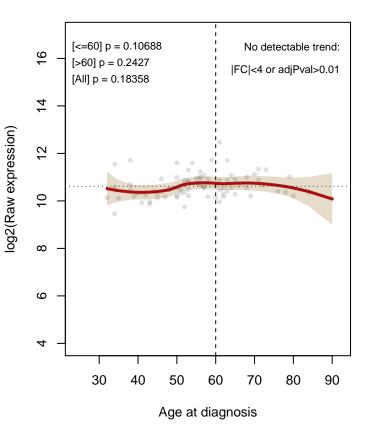
#### MAPK1 (non-ER binding)

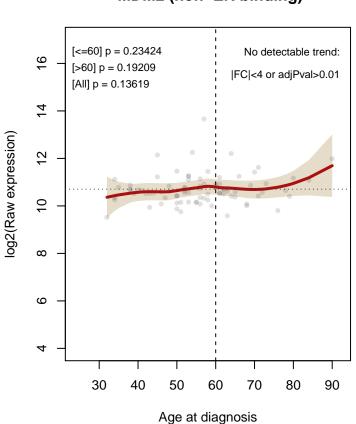




# MAPK3 (non-ER binding)

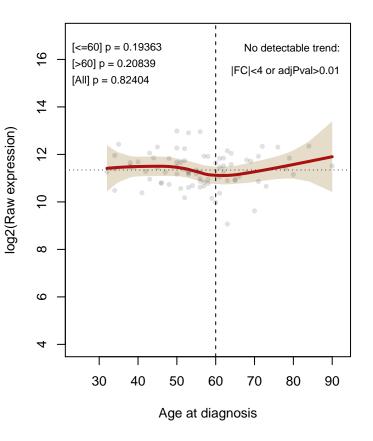
MDM2 (non-ER binding)

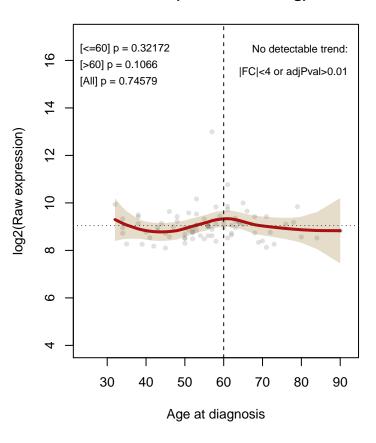






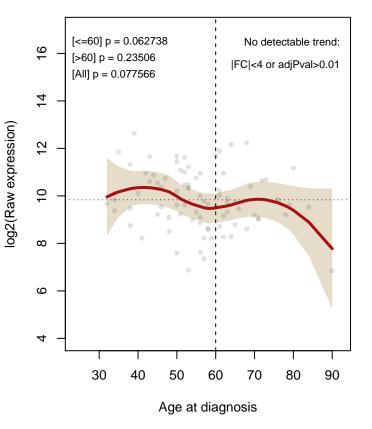
#### MTF2 (non-ER binding)

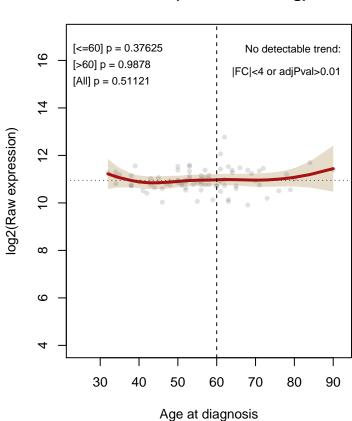




# MYC (non-ER binding)

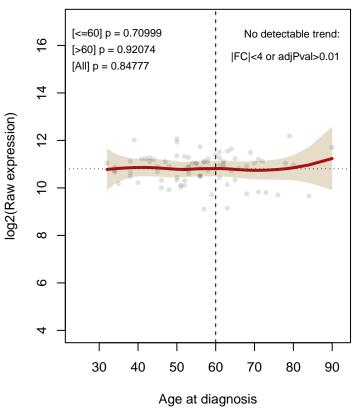
# NCOA6 (non-ER binding)

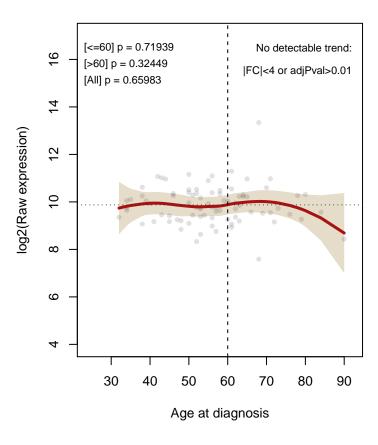






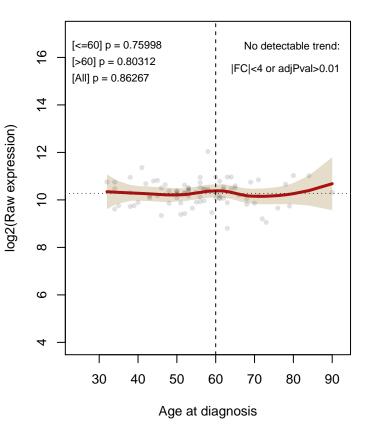
#### **NES (non-ER binding)**

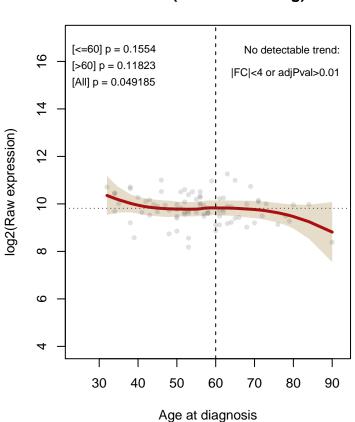




## NFKB1 (non-ER binding)

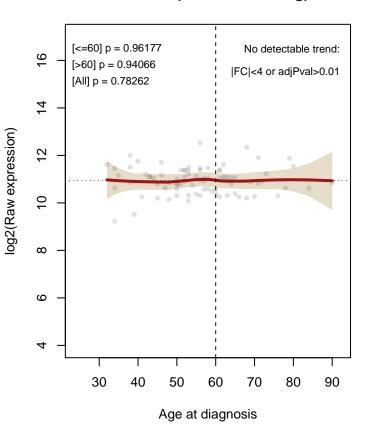
NFKB2 (non-ER binding)

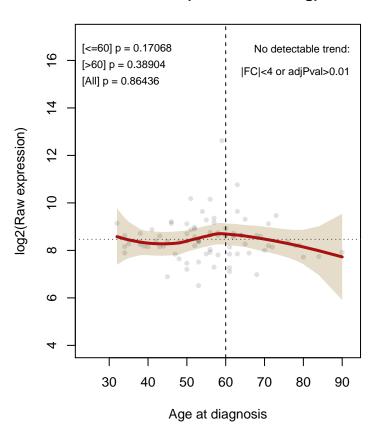




### NFKBIA (non-ER binding)

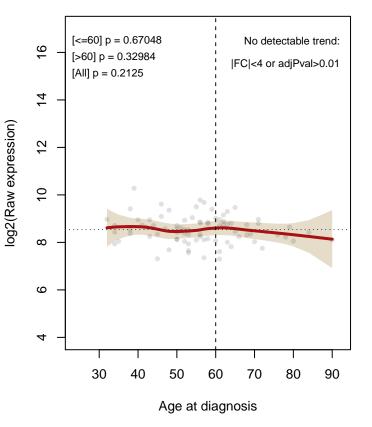
#### NFKBIB (non-ER binding)

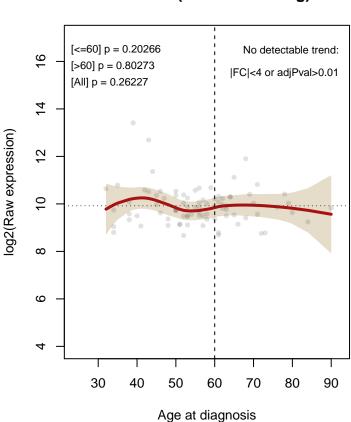




## NFKBIE (non-ER binding)

## NOTCH1 (non-ER binding)





#### NOTCH2 (non-ER binding)

# [<=60] p = 0.51957No detectable trend: [>60] p = 0.79157 |FC|<4 or adjPval>0.01

[AII] p = 0.605964 12 10

16

log2(Raw expression)



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Age at diagnosis

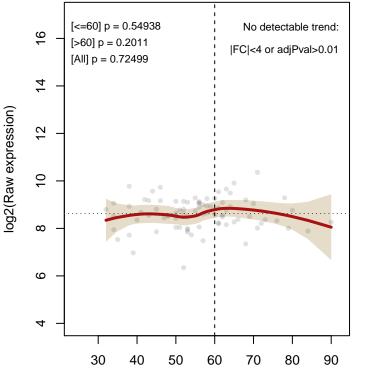
## NOTCH4 (non-ER binding)

60

70

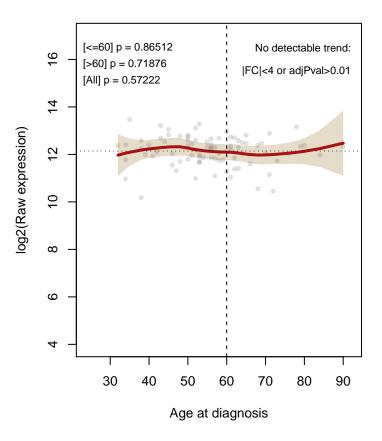
80

90

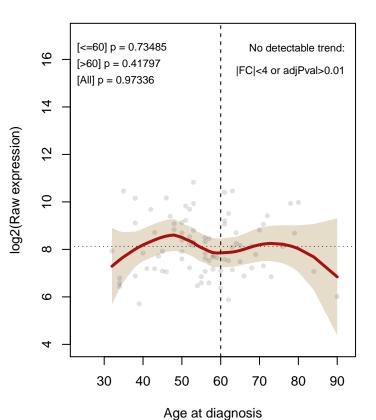


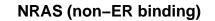
Age at diagnosis

#### NOTCH3 (non-ER binding)

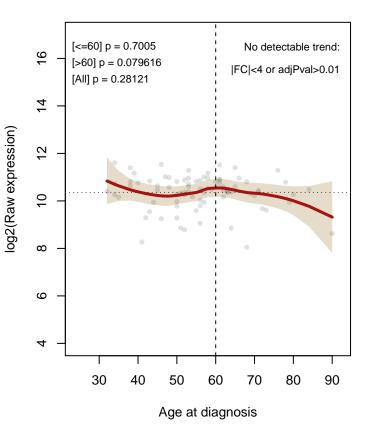


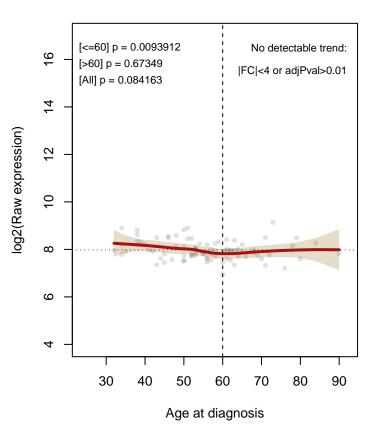
## NR4A2 (non-ER binding)





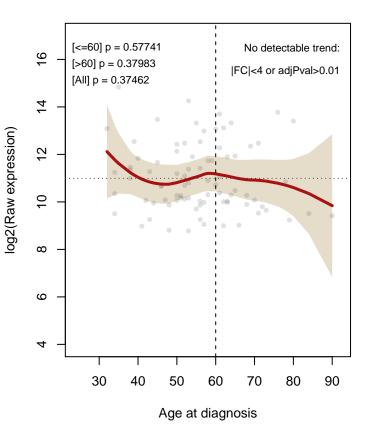
### PCGF1 (non-ER binding)

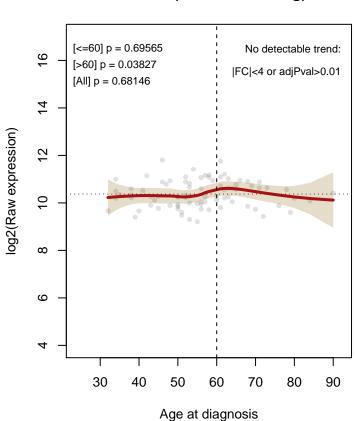




## PCGF2 (non-ER binding)

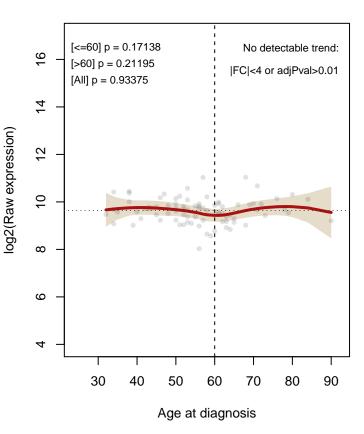
PCGF3 (non-ER binding)

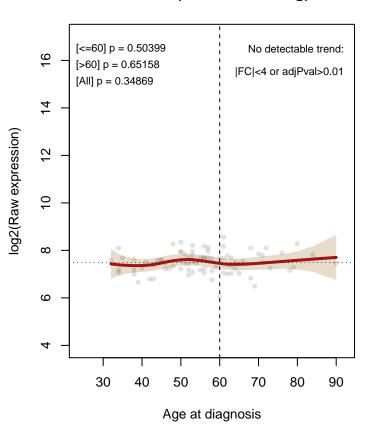






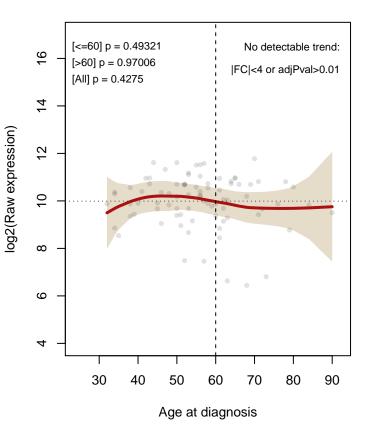
#### PCGF6 (non-ER binding)

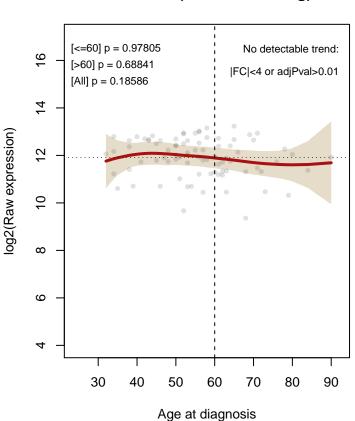




## PDGFRA (non-ER binding)

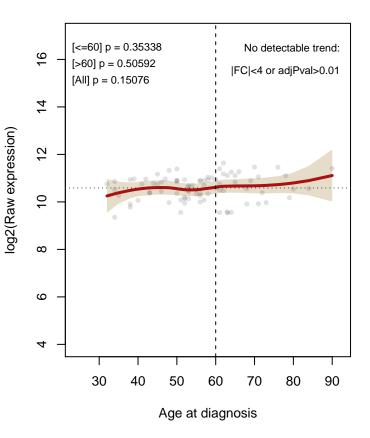
## PDGFRB (non-ER binding)

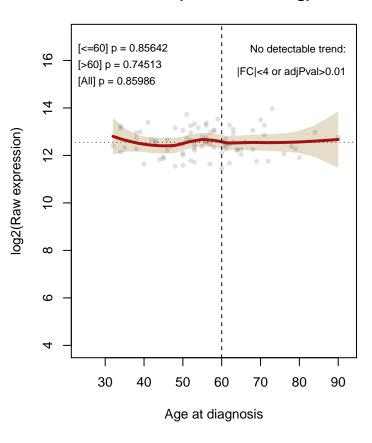






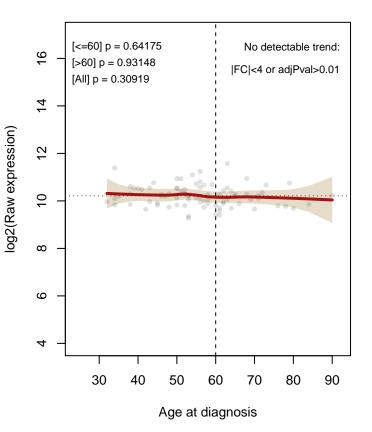
#### PEBP1 (non-ER binding)

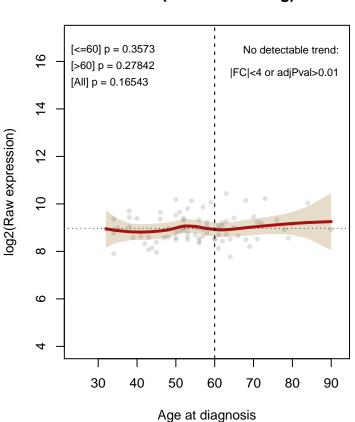


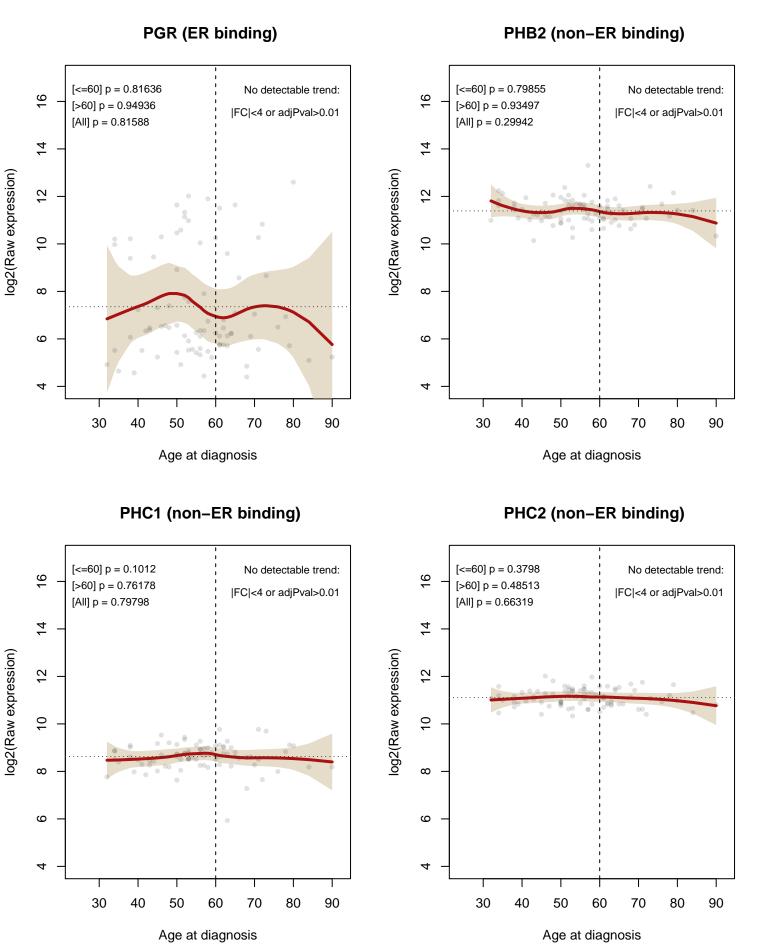


PELP1 (non-ER binding)

PGP (non-ER binding)

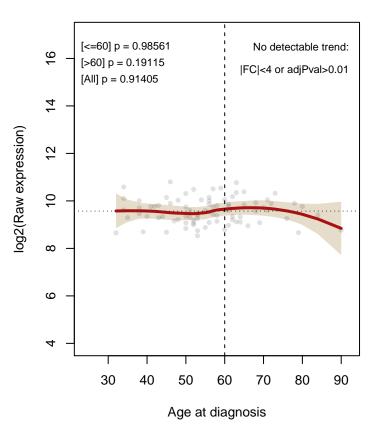






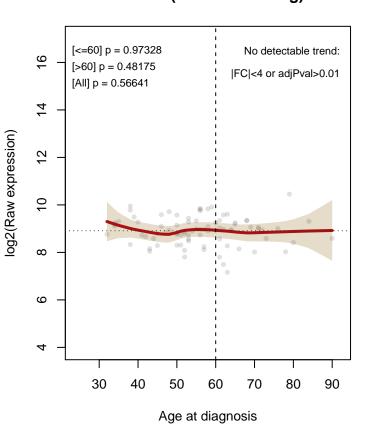
# 

## PHF1 (non-ER binding)

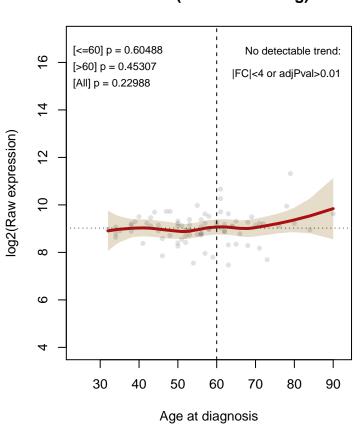


PHF19 (non-ER binding)

Age at diagnosis

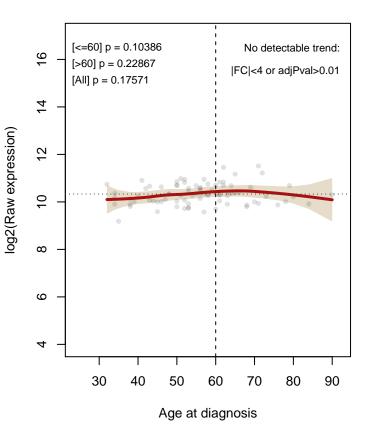


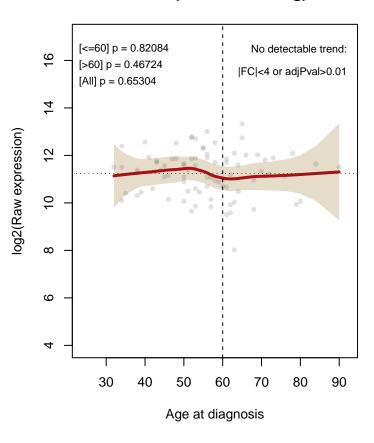
## PIK3CA (non-ER binding)





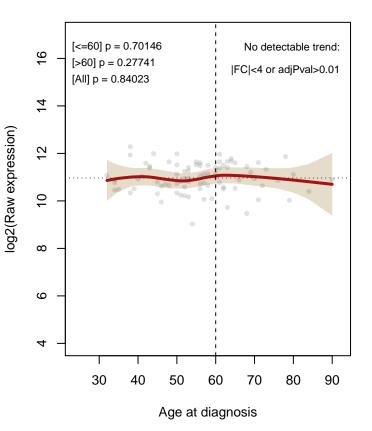
### PLAU (non-ER binding)

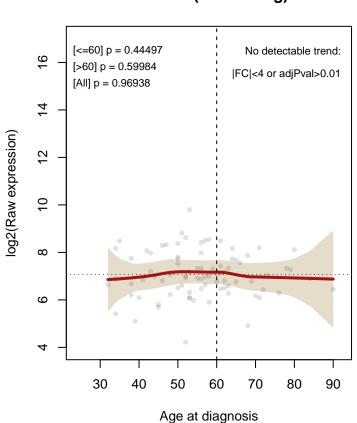


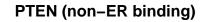


PODXL (non-ER binding)

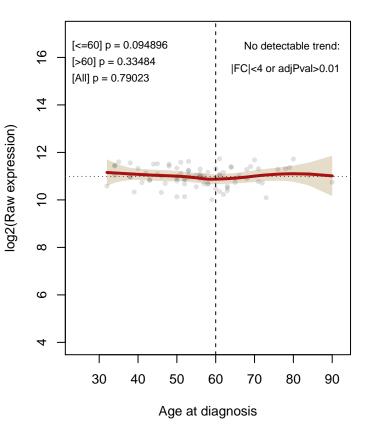
**PPARG (ER binding)** 

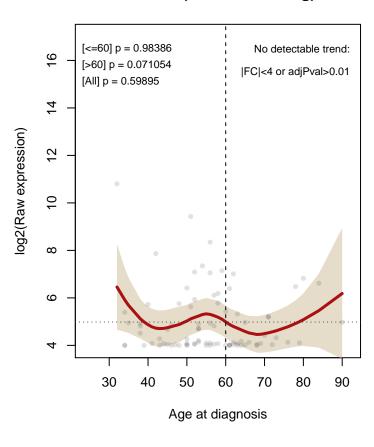






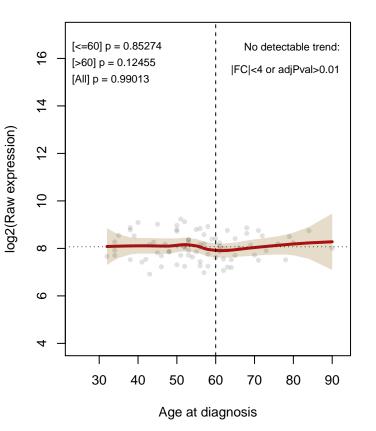
#### **PYDC1** (non-ER binding)

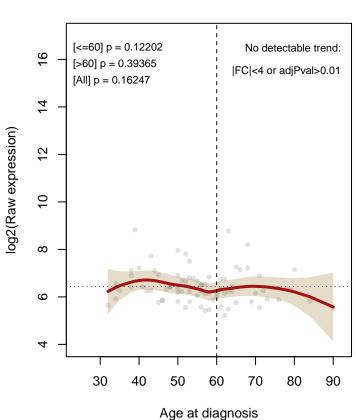




## RAD51 (non-ER binding)

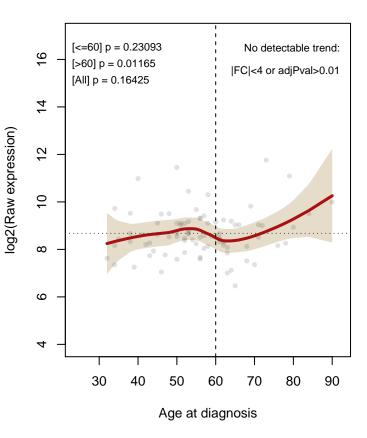
RAD51B (ER binding)

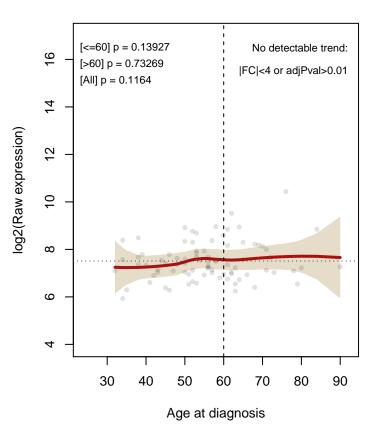




## RAD51C (non-ER binding)

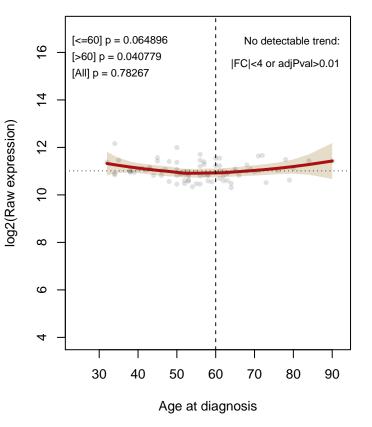
### RAD51D (non-ER binding)

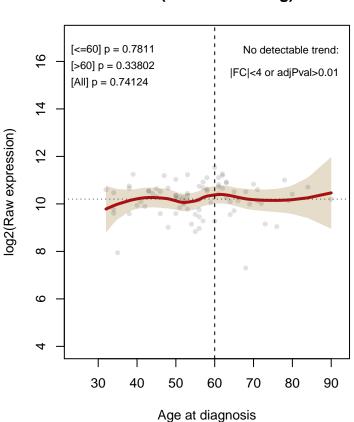


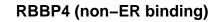


## RAF1 (non-ER binding)

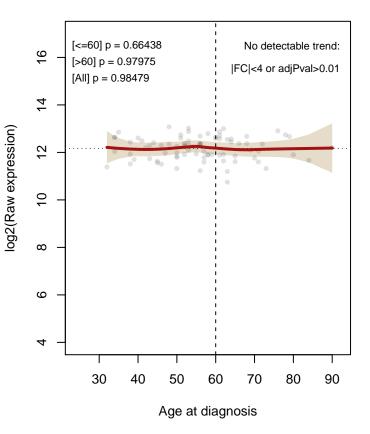
RB1 (non-ER binding)

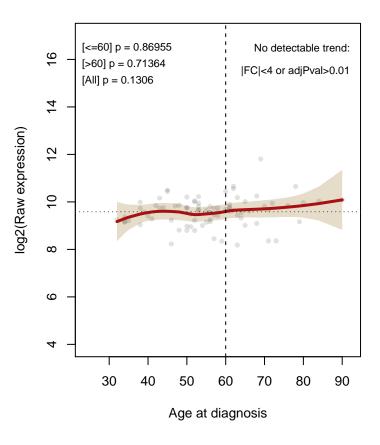






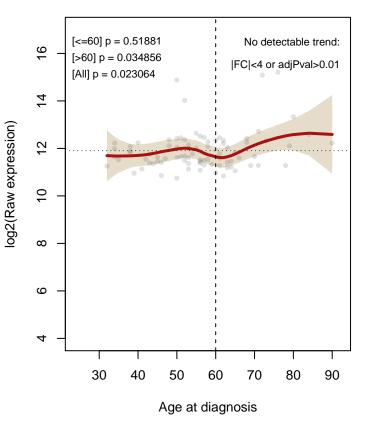
### RBBP5 (non-ER binding)

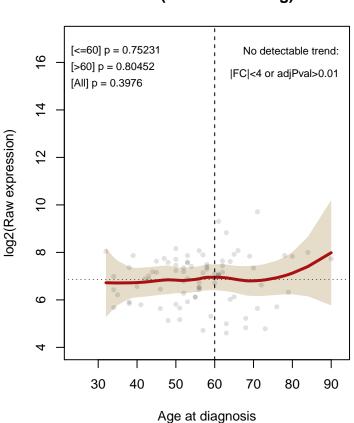




## RBBP7 (non-ER binding)

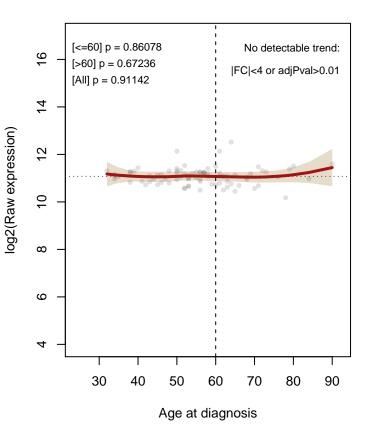
**REL** (non-ER binding)

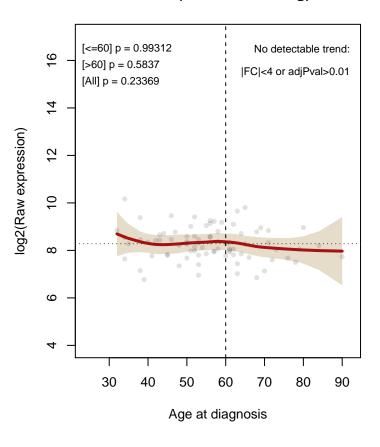






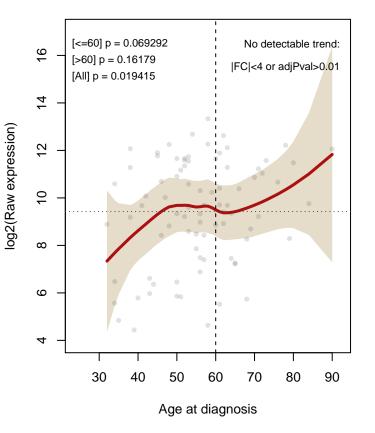
#### **RELB** (non-ER binding)

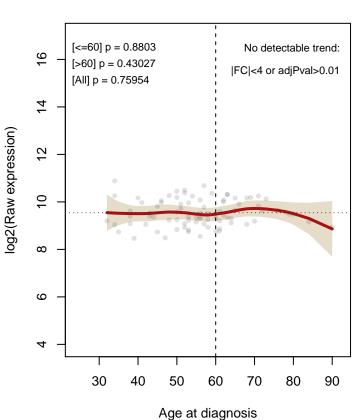




## **RET (ER binding)**

RING1 (non-ER binding)





#### RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.54794No detectable trend: [<=60] p = 0.057952 No detectable trend: 16 16 [>60] p = 0.63027 [>60] p = 0.56507 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.35823[All] p = 0.0299454 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 **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.17382No detectable trend: [<=60] p = 0.13844No detectable trend: 16 16 [>60] p = 0.21118 [>60] p = 0.78157 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.37105[All] p = 0.0041574 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 $\infty$ ω 9 9

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Age at diagnosis

70

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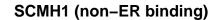
60

Age at diagnosis

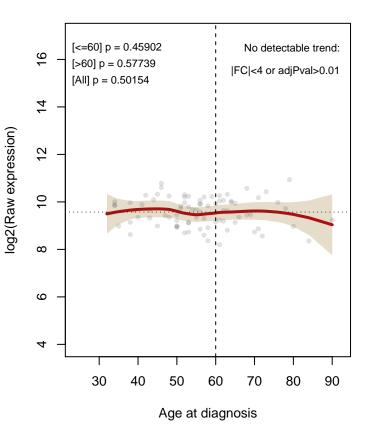
70

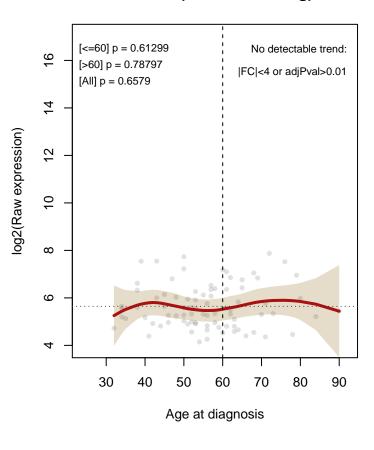
80

90



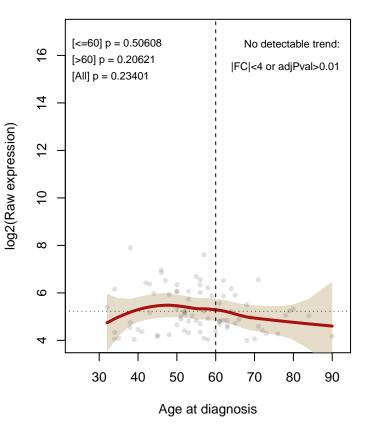
#### SCML2 (non-ER binding)

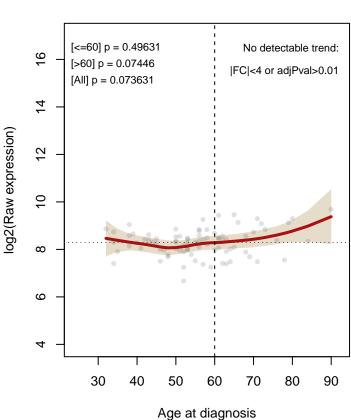




## SCML4 (non-ER binding)

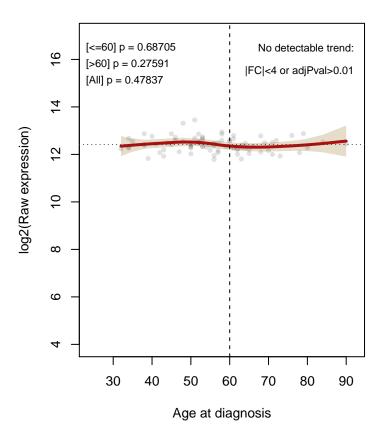
SFMBT1 (ER binding)



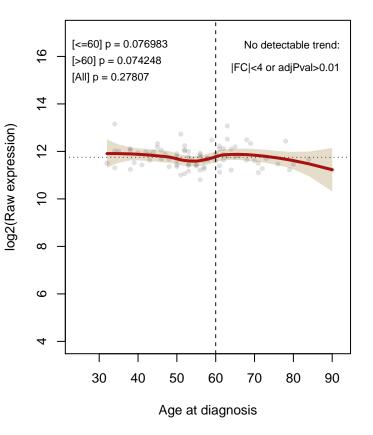


# SFMBT2 (ER binding) [<=60] p = 0.75391 No detectable trend: 16 [>60] p = 0.73652 |FC|<4 or adjPval>0.01 [All] p = 0.586844 12

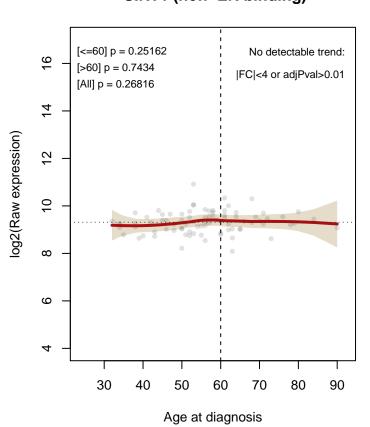
## SFPQ (non-ER binding)



log2(Raw expression) 10  $\infty$ 9 30 40 50 60 70 80 90 Age at diagnosis SHC1 (non-ER binding)

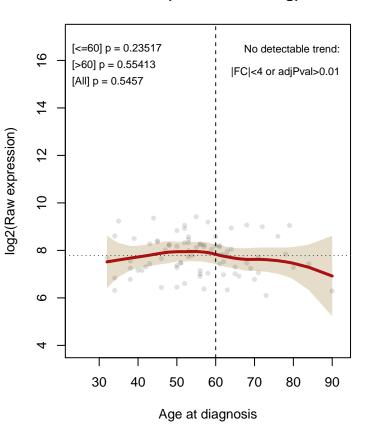


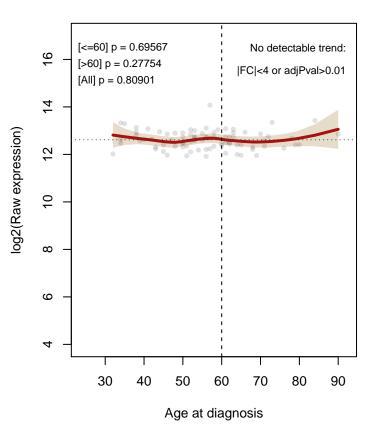
## SIRT1 (non-ER binding)



#### SKP2 (non-ER binding)

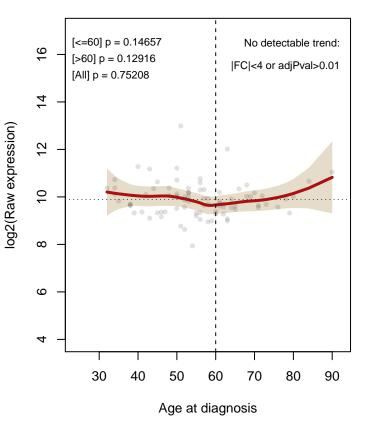
### SLC25A3 (non-ER binding)

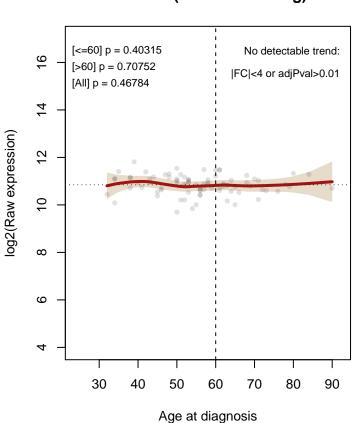




## SMAD1 (non-ER binding)

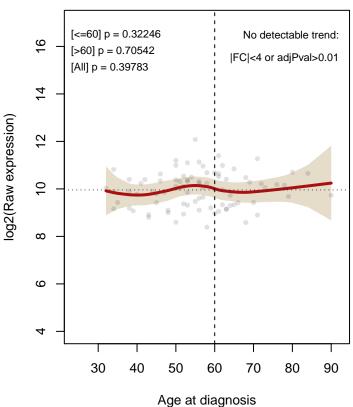
SMAD2 (non-ER binding)

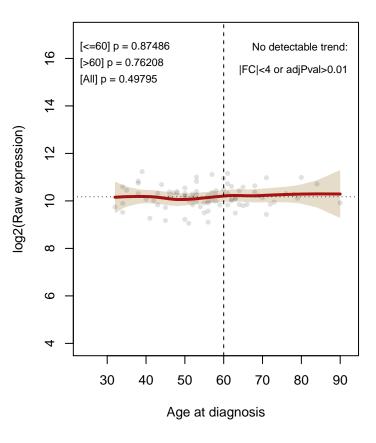






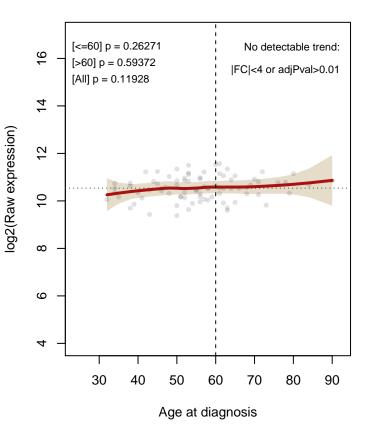
## SMAD4 (non-ER binding)

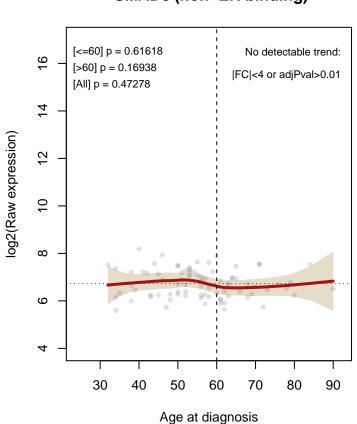




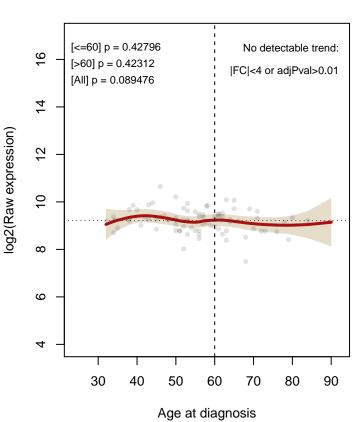
## **SMAD5** (non-ER binding)

SMAD6 (non-ER binding)

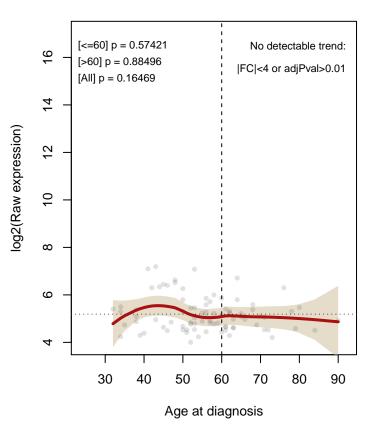




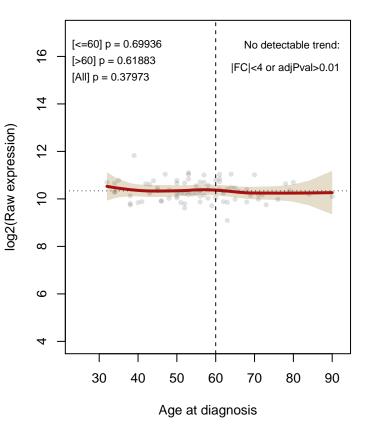
### SMAD7 (non-ER binding)



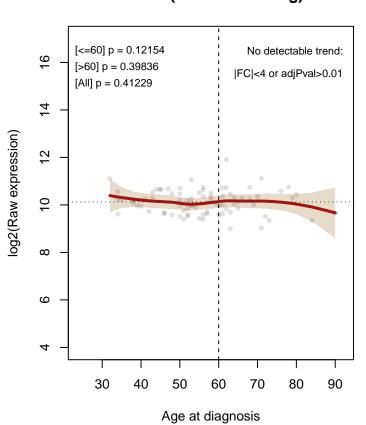
## SMAD9 (non-ER binding)

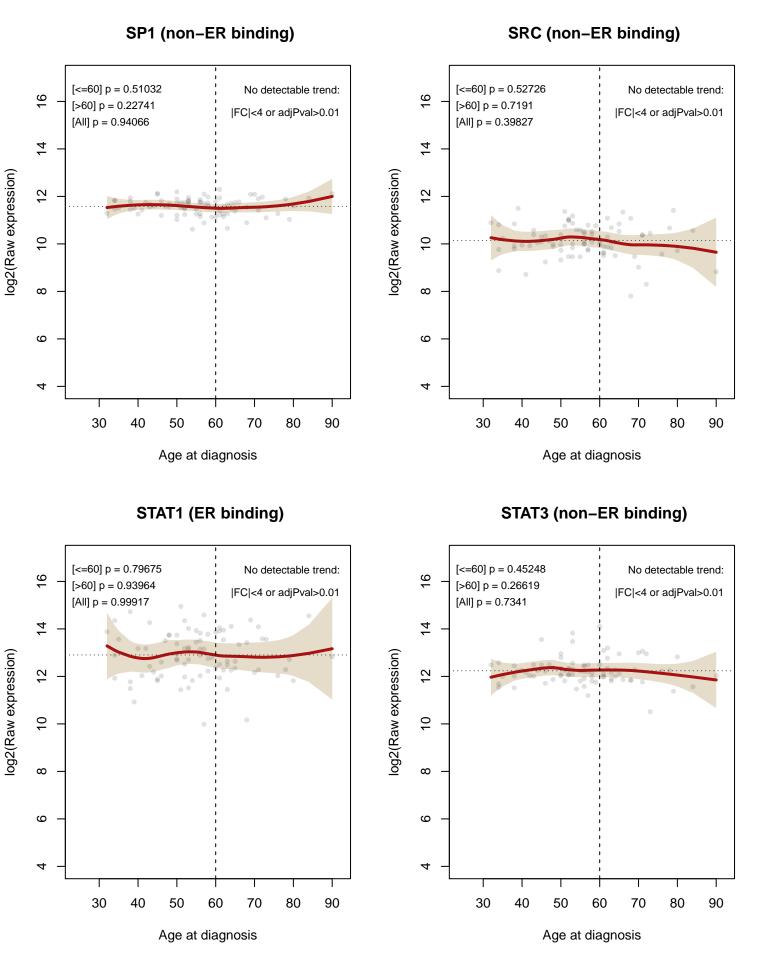


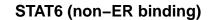
SOS1 (non-ER binding)



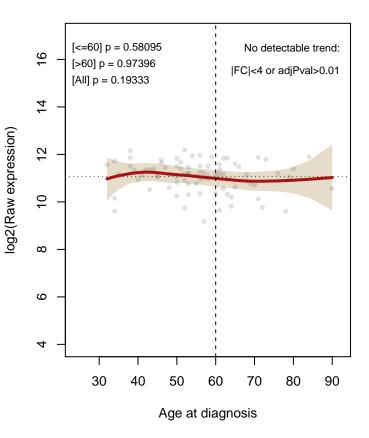
## SOS2 (non-ER binding)

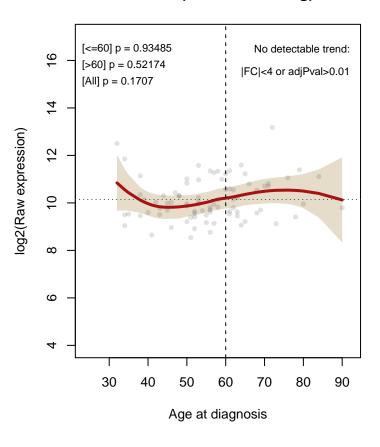






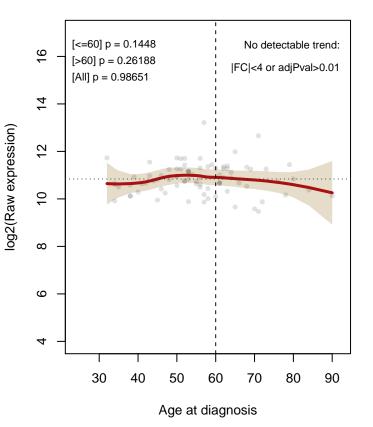
#### SUZ12 (non-ER binding)

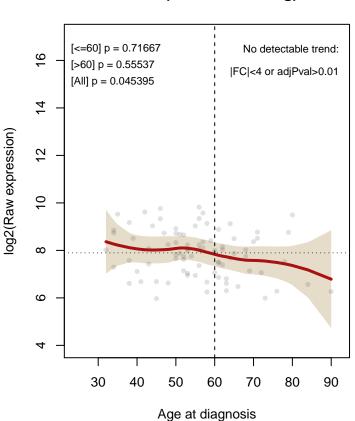




TCF3 (non-ER binding)

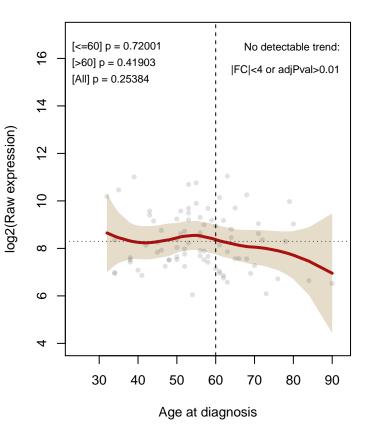
TCF7 (non-ER binding)

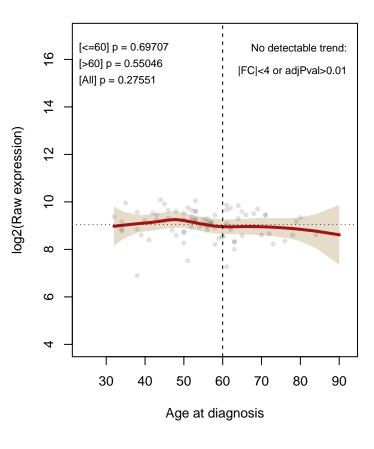






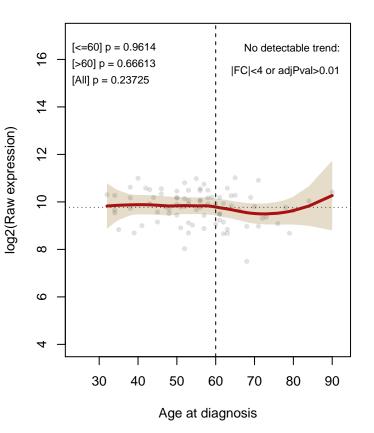
### TCF7L2 (non-ER binding)

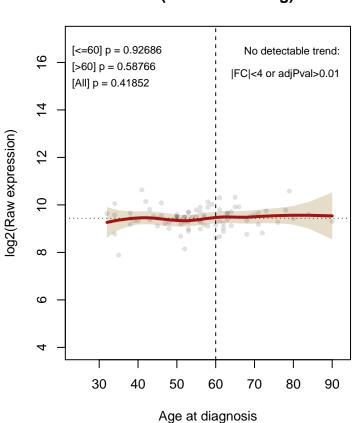


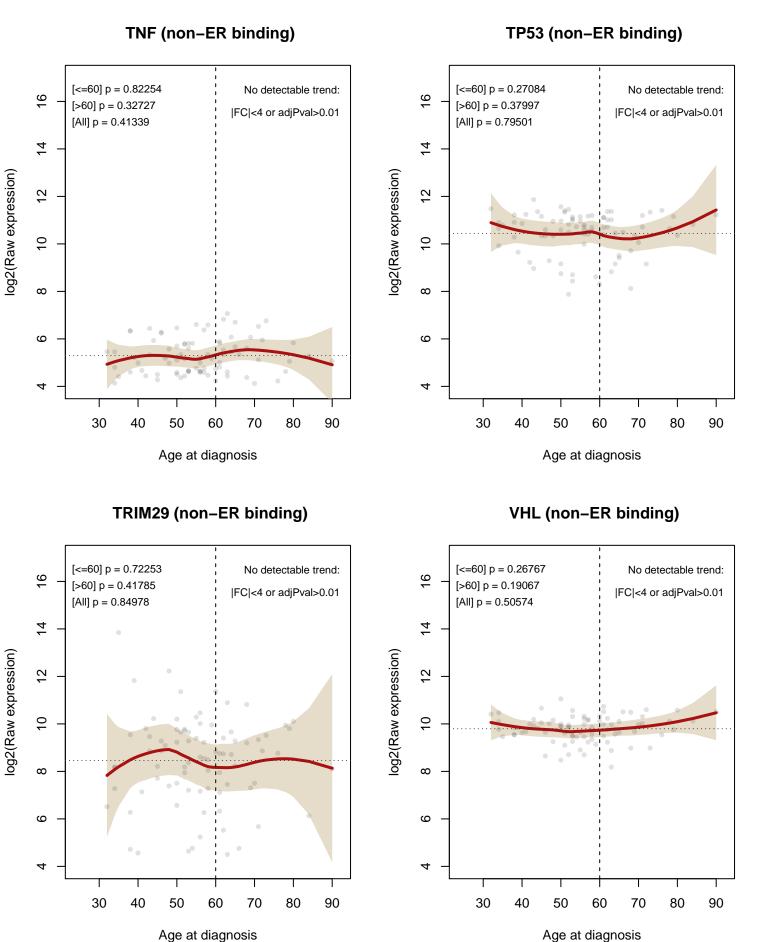


## TGFB1 (non-ER binding)

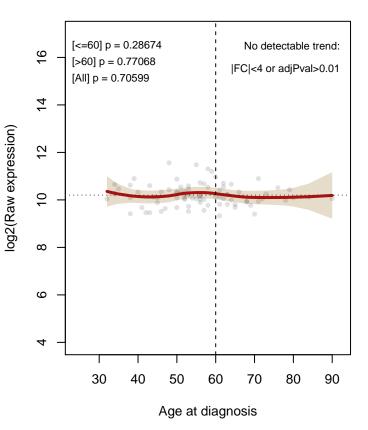
## TK2 (non-ER binding)











## [<=60] p = 0.65929No detectable trend: 16 [>60] p = 0.92503 |FC|<4 or adjPval>0.01 [All] p = 0.139424 log2(Raw expression) 12 10 $\infty$ 9 30 40 50 60 70 80 90 Age at diagnosis

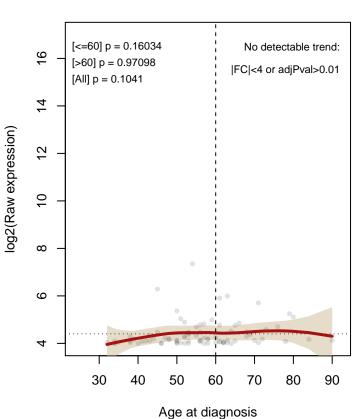
WHSC1 (non-ER binding)

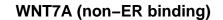
## WNT1 (non-ER binding)

## [<=60] p = 0.74742No detectable trend: 16 [>60] p = 0.14483 |FC|<4 or adjPval>0.01 [AII] p = 0.0978344 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

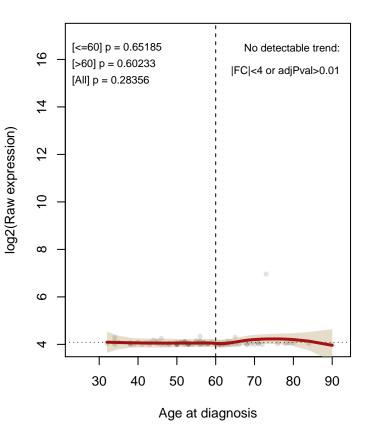
Age at diagnosis

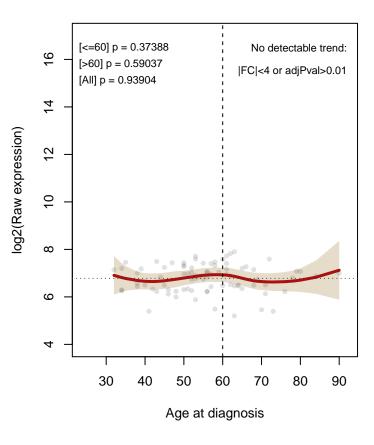
## WNT3A (non-ER binding)





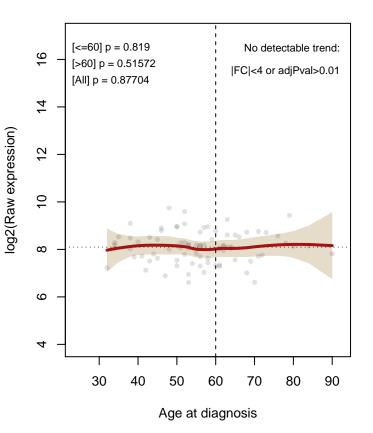
#### XRCC2 (non-ER binding)

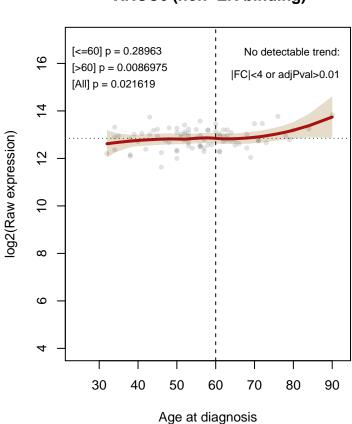




## XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

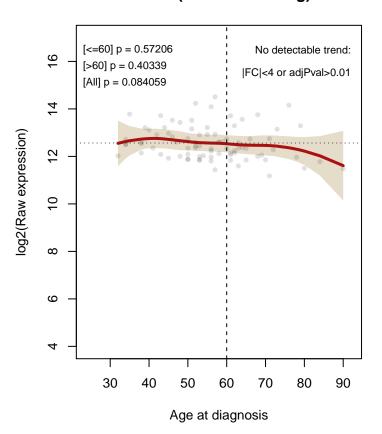




### YAF2 (non-ER binding)

## 

## YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

