

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.95059No detectable trend: [<=60] p = 0.081327No detectable trend: 16 16 [>60] p = 0.23858 [>60] p = 0.020754 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.34684[All] p = 0.224864 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 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 = 0.32116No detectable trend: [<=60] p = 0.027876 No detectable trend: 16 16 [>60] p = 0.031628 [>60] p = 0.13071 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.22121[All] p = 0.737734 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞ 9 9

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Age at diagnosis

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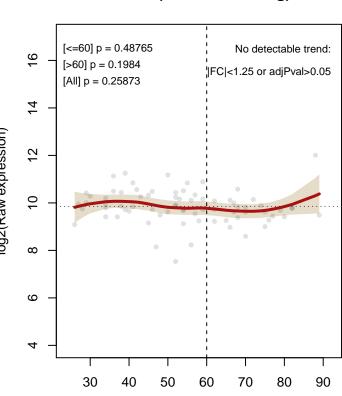
Age at diagnosis

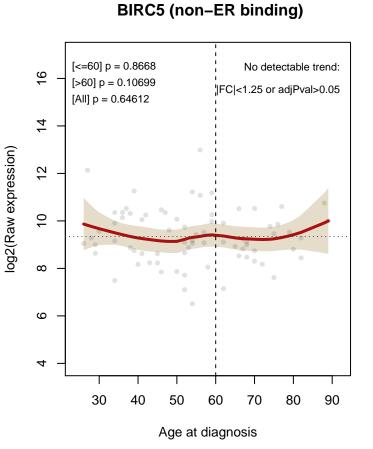
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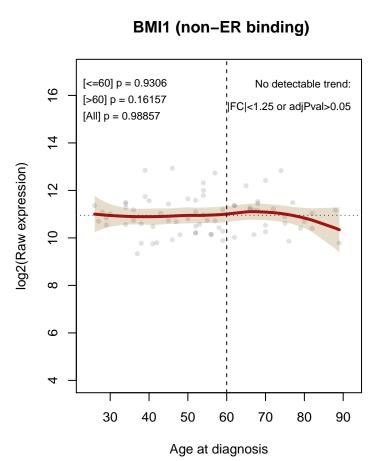
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BCL2 (non-ER binding) BCL3 (non-ER binding) [<=60] p = 0.51222No detectable trend: [<=60] p = 0.4876516 16 [>60] p = 0.68609[>60] p = 0.1984 |FC|<1.25 or adjPval>0.05 [All] p = 0.044317[All] p = 0.258734 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 Age at diagnosis Age at diagnosis







BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.004424No detectable trend: [<=60] p = 0.6606No detectable trend: 16 16 [>60] p = 0.51832 [>60] p = 0.4014 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.0015649[All] p = 0.472584 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.036719No detectable trend: [<=60] p = 0.32976No detectable trend: 16 16 [>60] p = 0.51228 [>60] p = 0.97743 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.18295[All] p = 0.166964 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞

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Age at diagnosis

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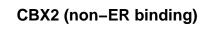
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Age at diagnosis

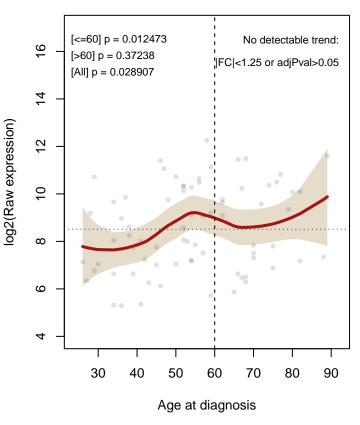
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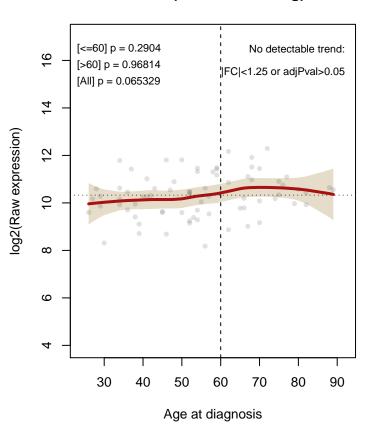
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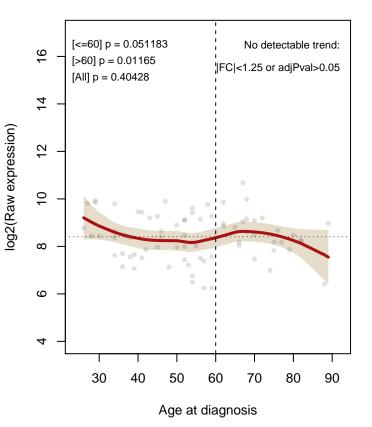
CBX4 (non-ER binding)

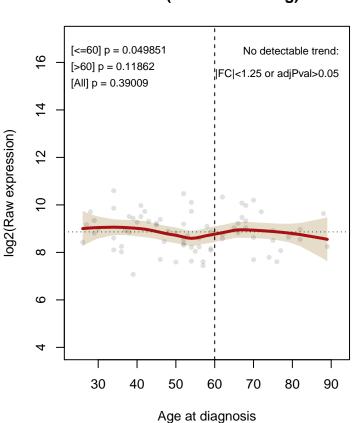




CBX6 (non-ER binding)

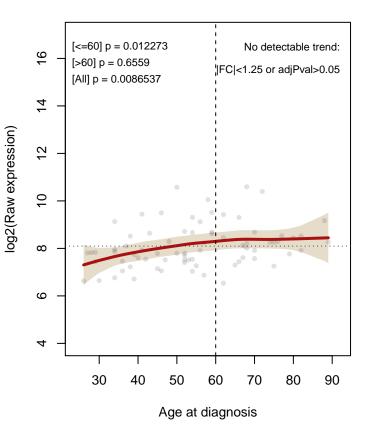
CBX7 (non-ER binding)

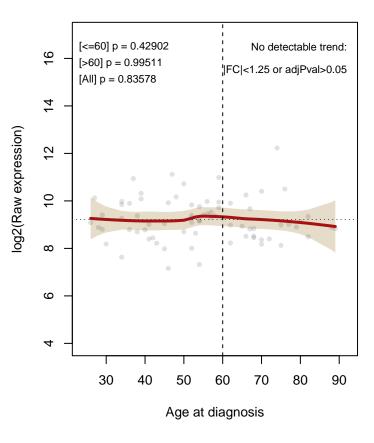






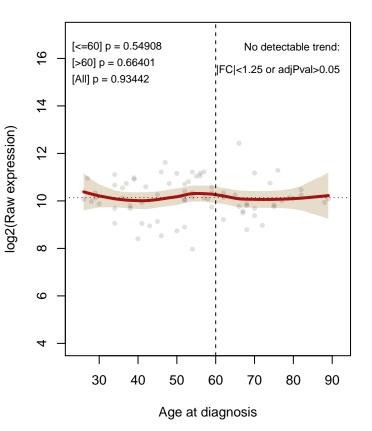
CCNA2 (non-ER binding)

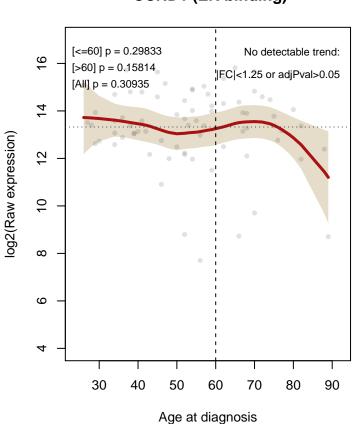




CCNB1 (non-ER binding)

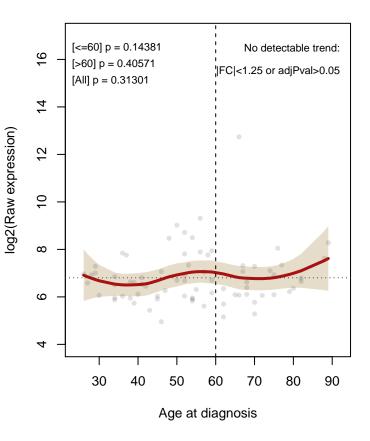
CCND1 (ER binding)

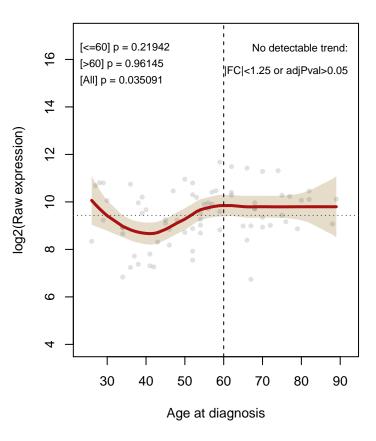






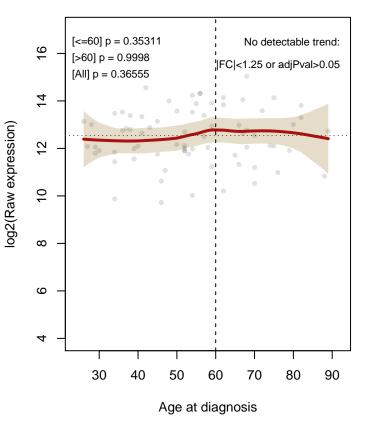
CD163 (non-ER binding)

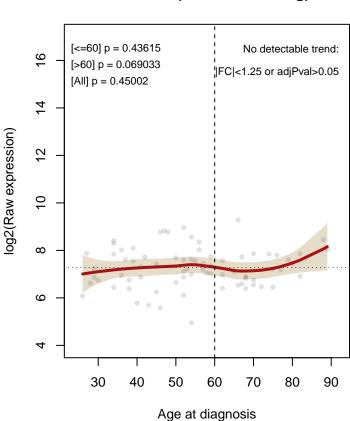


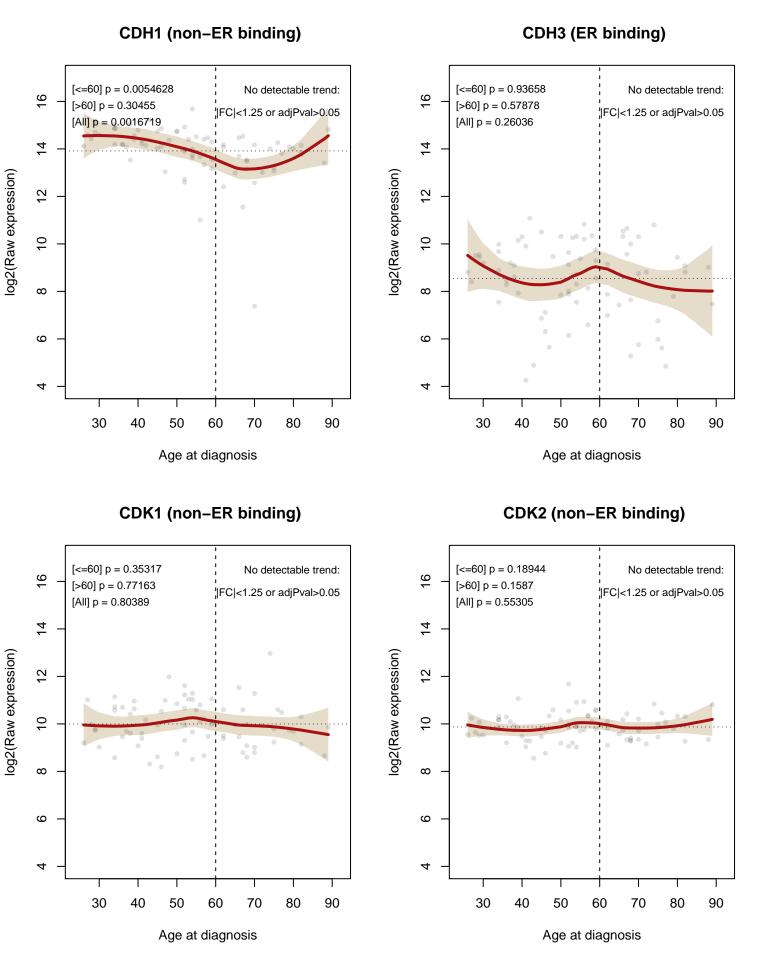


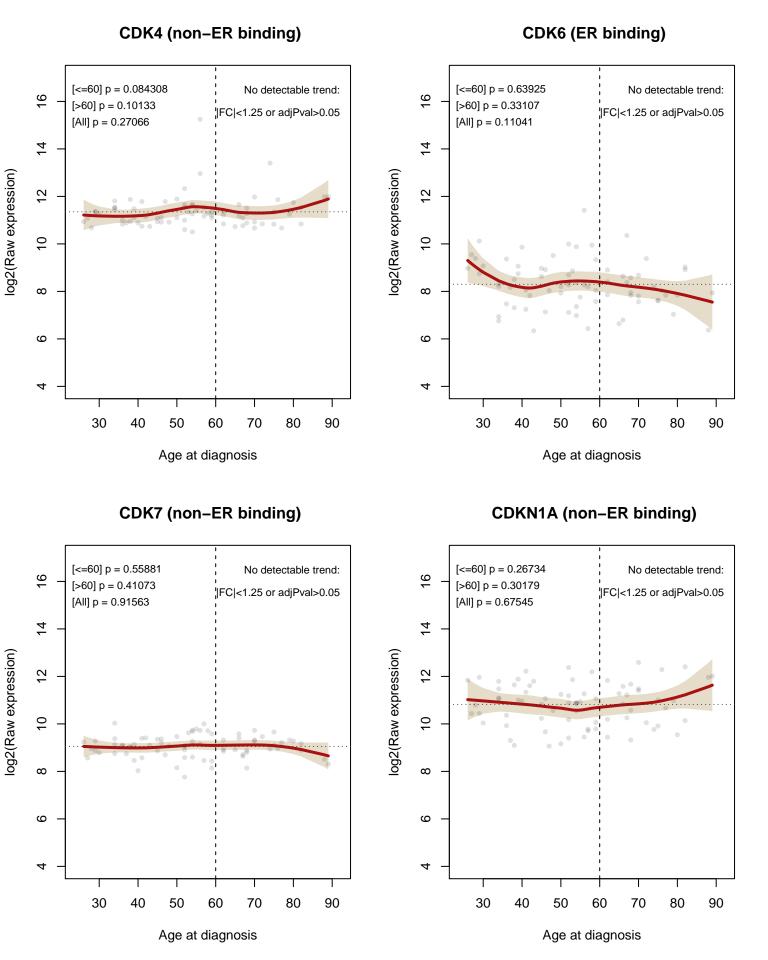
CD44 (non-ER binding)

CDC25C (non-ER binding)







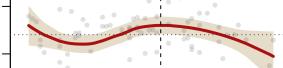


CDKN1B (non-ER binding)





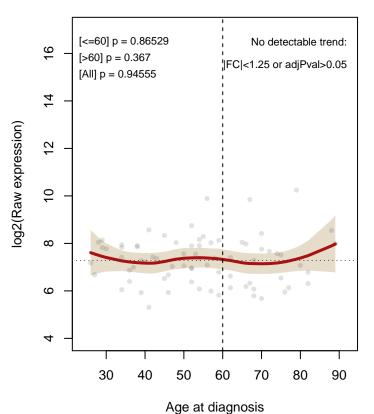
log2(Raw expression)



∞

Age at diagnosis

CDKN1C (non-ER binding)

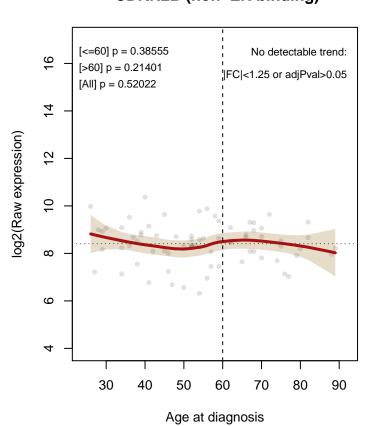


CDKN2A (non-ER binding)

[<=60] p = 0.034938No detectable trend: [>60] p = 0.0036225 |FC|<1.25 or adjPval>0.05 [AII] p = 0.021909log2(Raw expression) ω

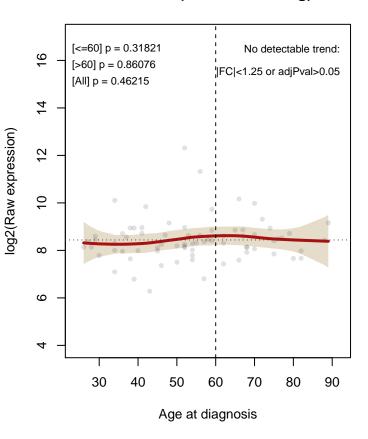
Age at diagnosis

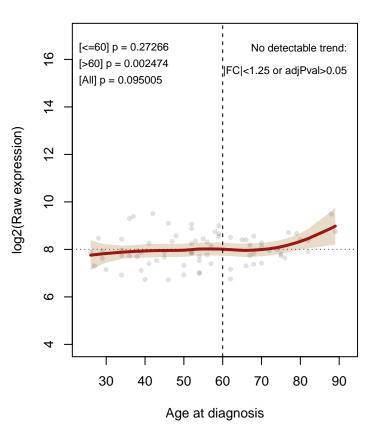
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

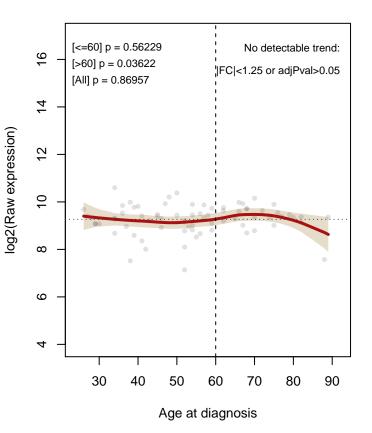
CDKN2D (non-ER binding)

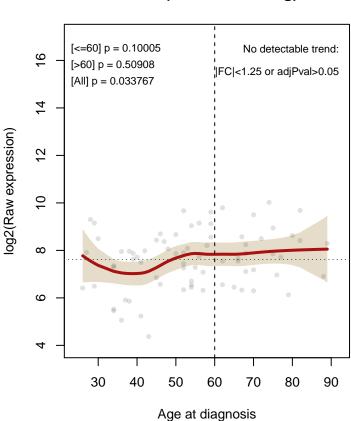


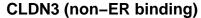


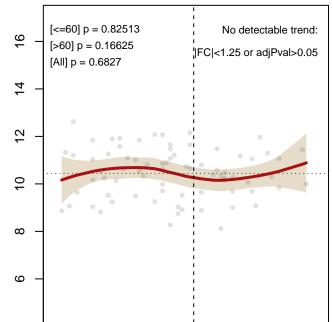
CHUK (non-ER binding)

CIITA (non-ER binding)



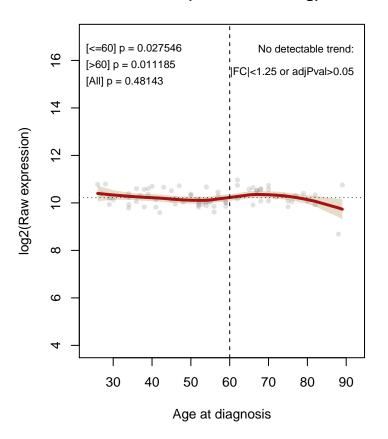






log2(Raw expression)

CREB1 (non-ER binding)



CRYAB (non-ER binding)

Age at diagnosis

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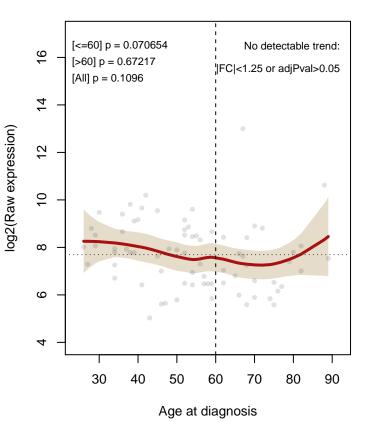
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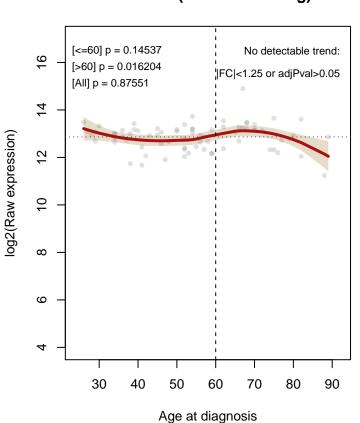
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CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.003966No detectable trend: [<=60] p = 0.062038 No detectable trend: 16 16 [>60] p = 0.92683 [>60] p = 0.36405 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.00059346[All] p = 0.282554 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.24559No detectable trend: [<=60] p = 0.71314No detectable trend: 16 16 [>60] p = 0.85072[>60] p = 0.62636 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.70899[All] p = 0.464364 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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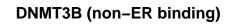
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Age at diagnosis

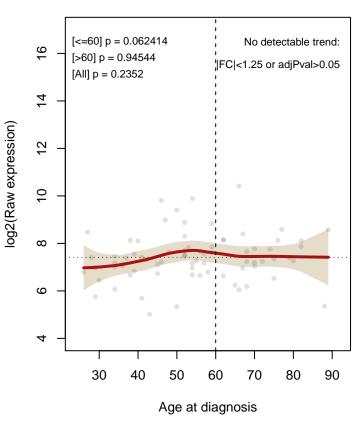
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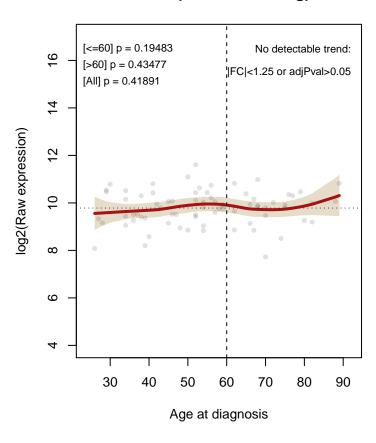
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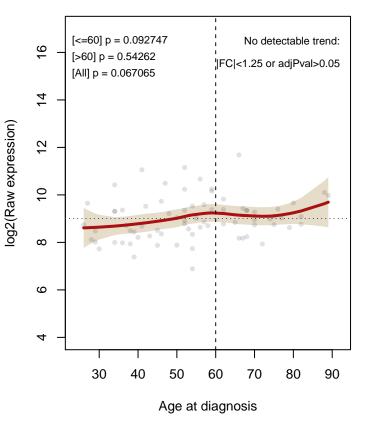
DVL1 (non-ER binding)

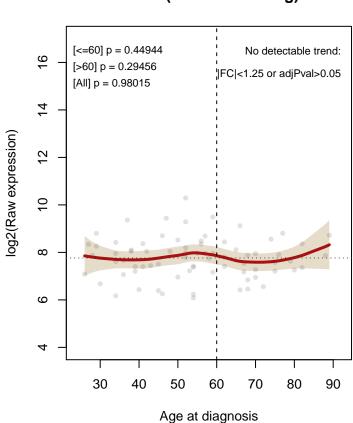


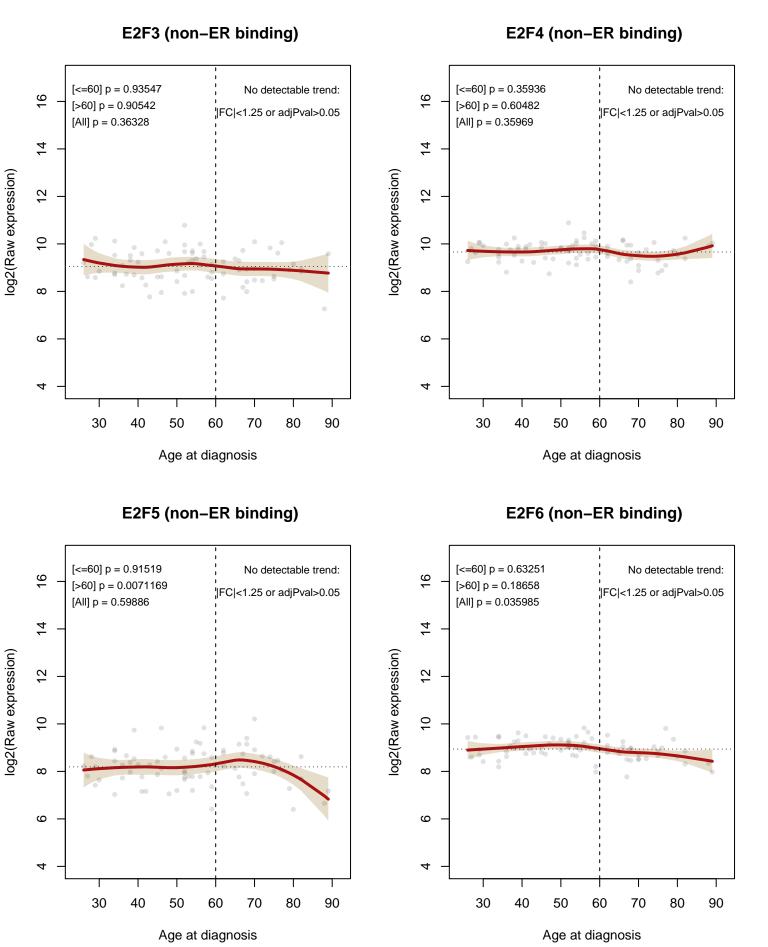


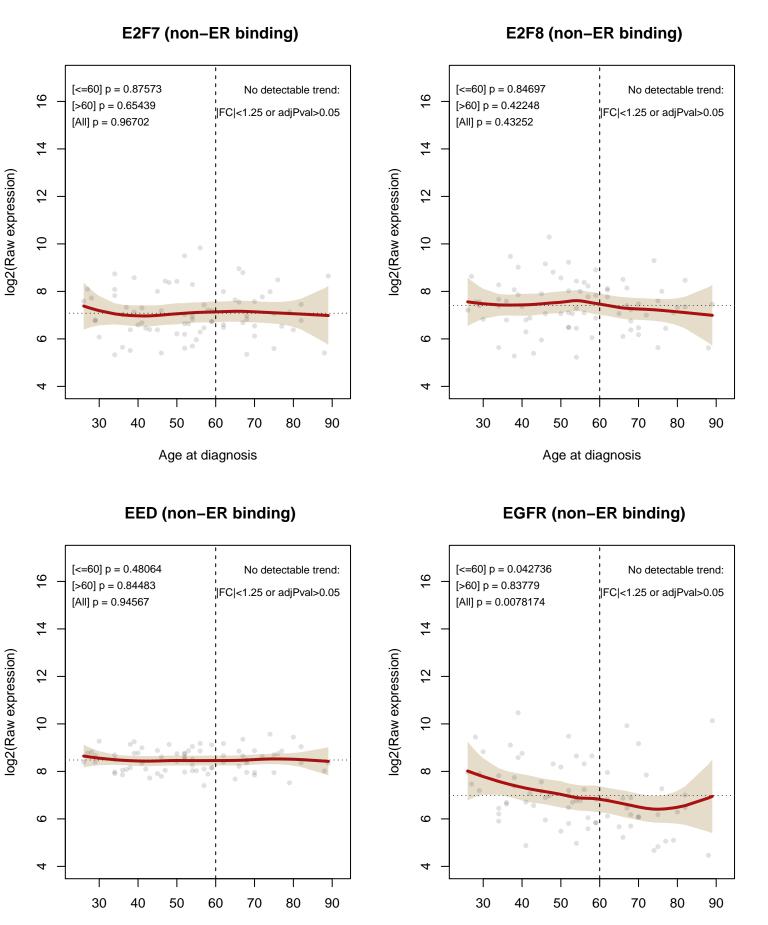
E2F1 (non-ER binding)

E2F2 (non-ER binding)



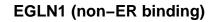




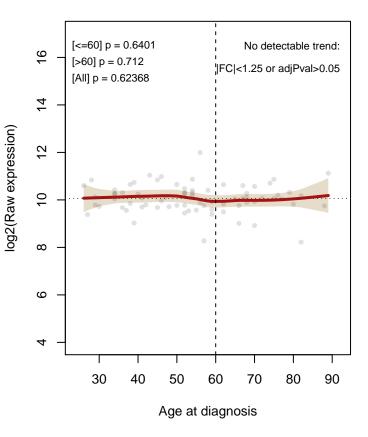


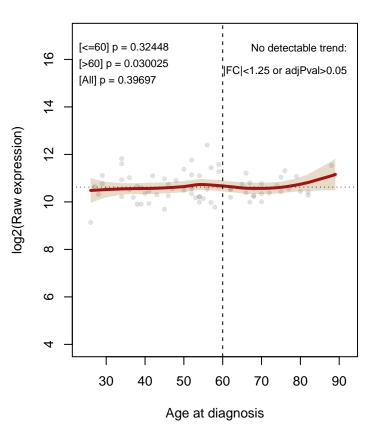
Age at diagnosis

Age at diagnosis



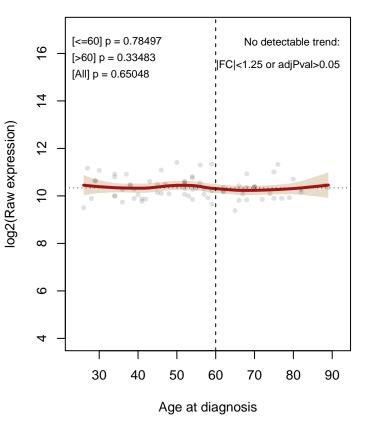
EHMT2 (non-ER binding)

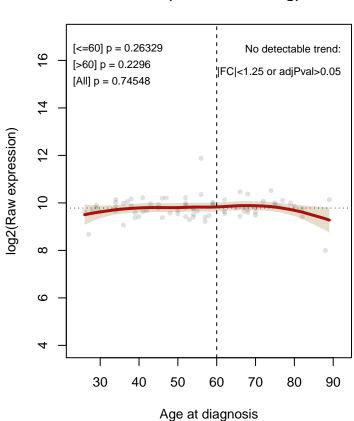




ELAC2 (non-ER binding)

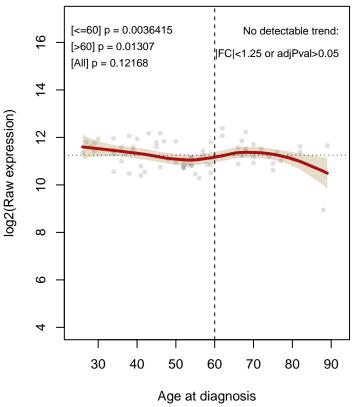
ELK1 (non-ER binding)

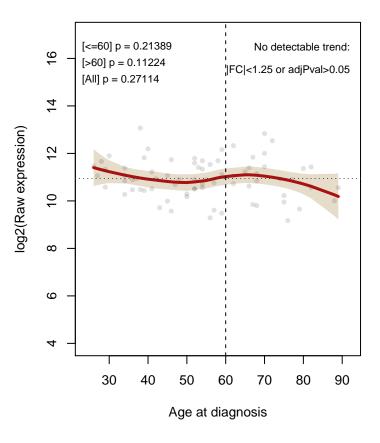




EP300 (non-ER binding)

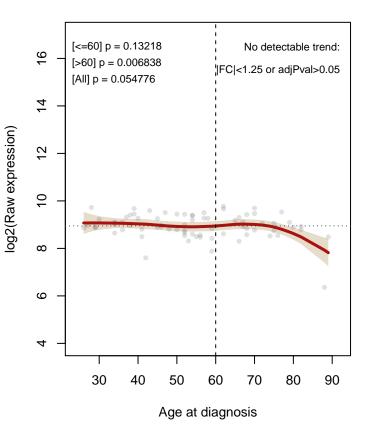
EPAS1 (non-ER binding)

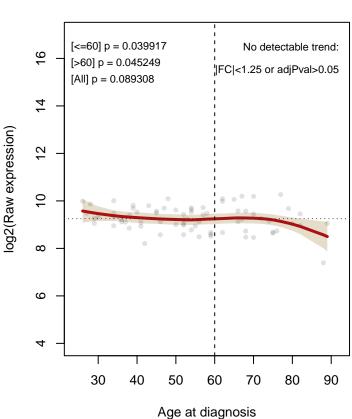




EPC1 (non-ER binding)

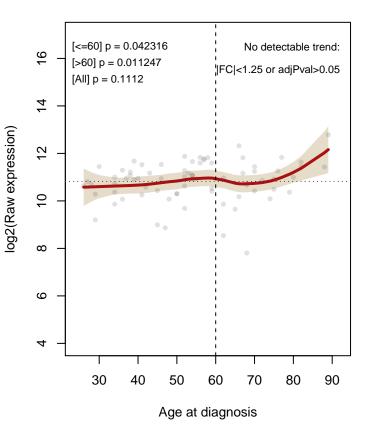
EPC2 (non-ER binding)

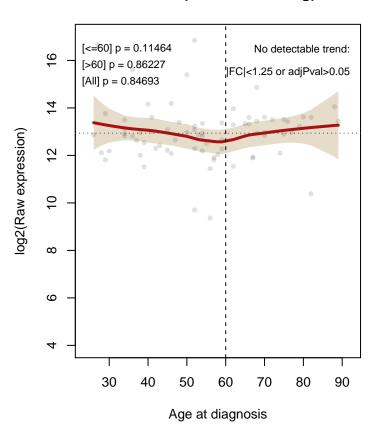






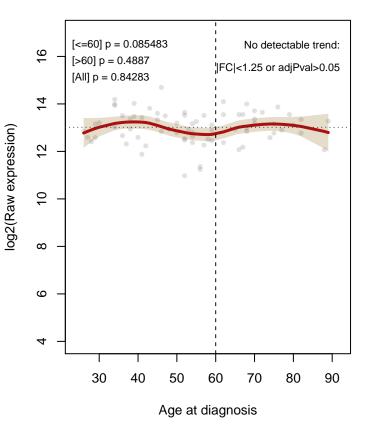
ERBB2 (non-ER binding)

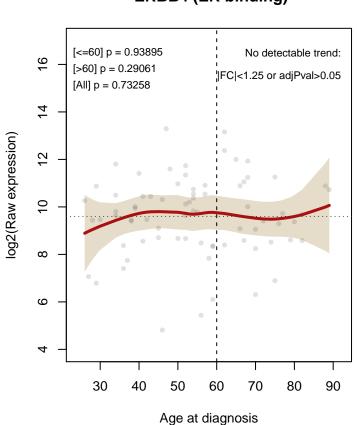


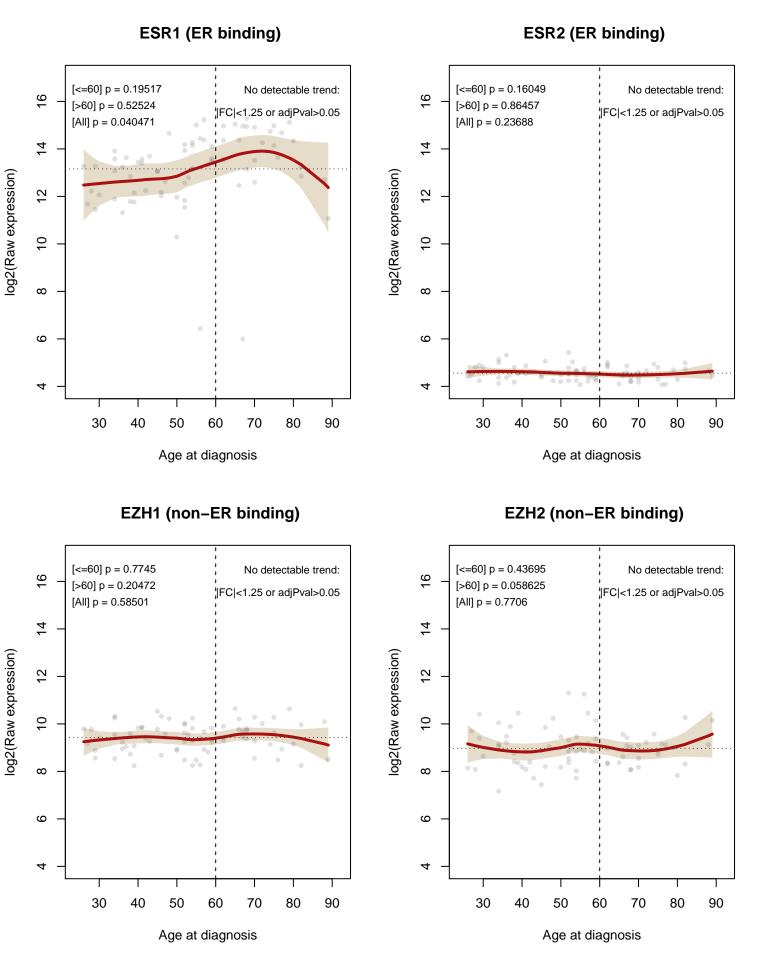


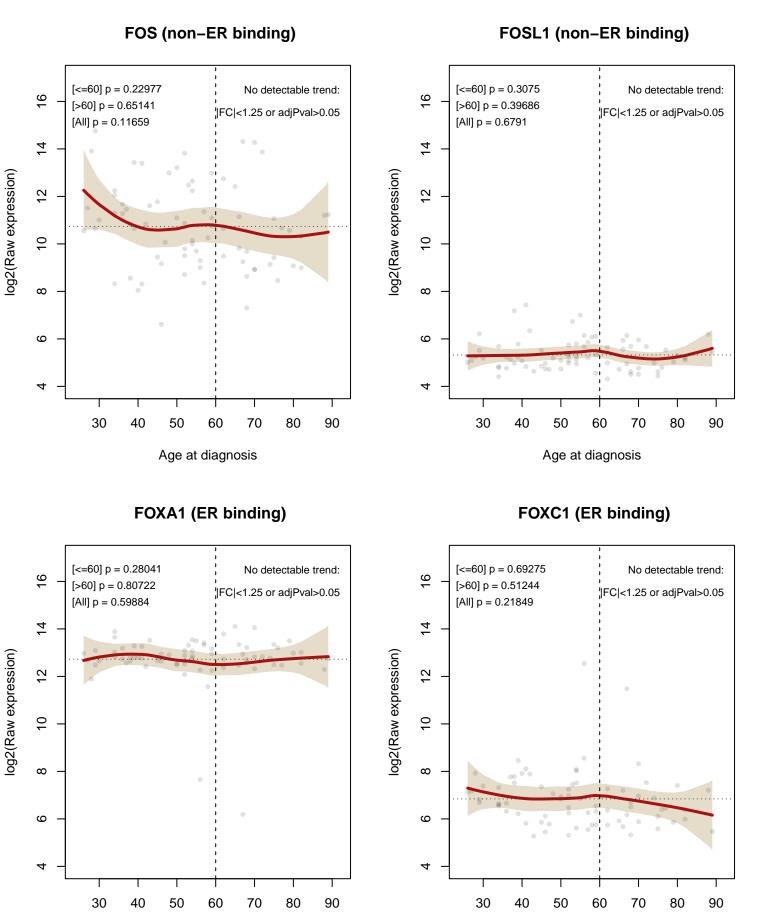
ERBB3 (non-ER binding)

ERBB4 (ER binding)



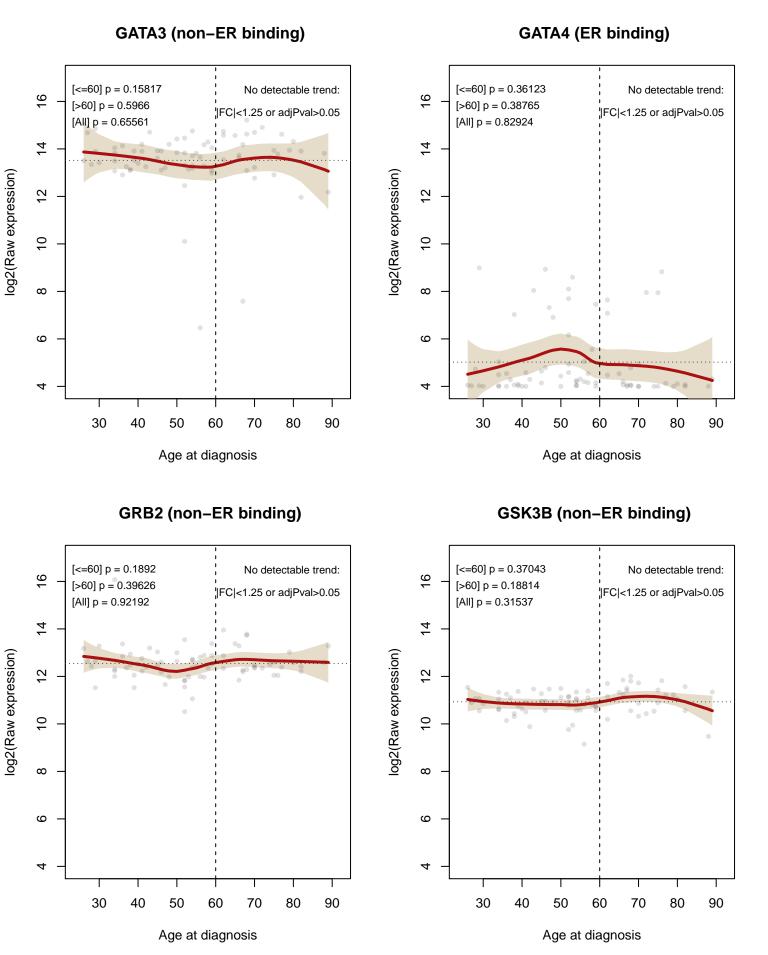


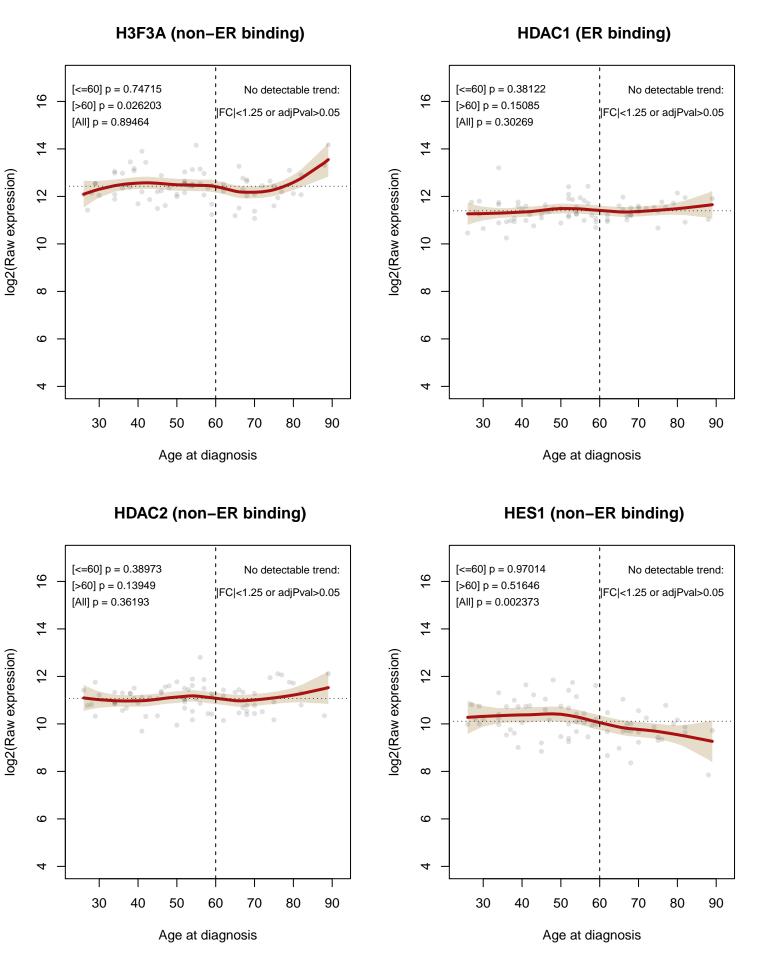


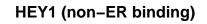


Age at diagnosis

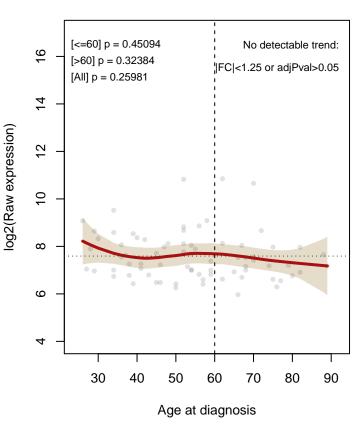
Age at diagnosis

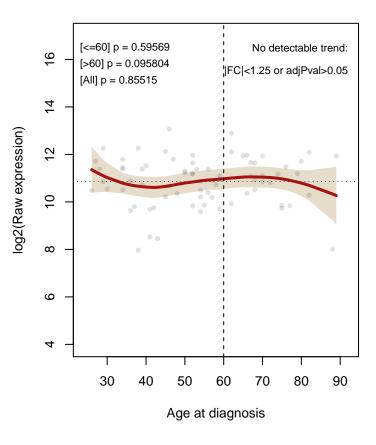






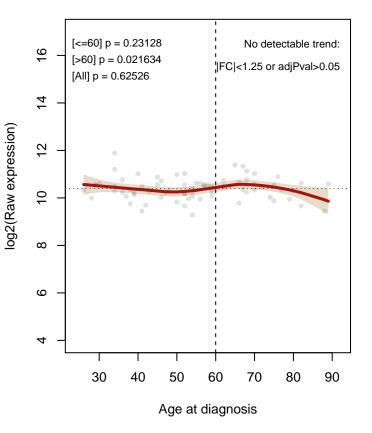
HIF1A (non-ER binding)

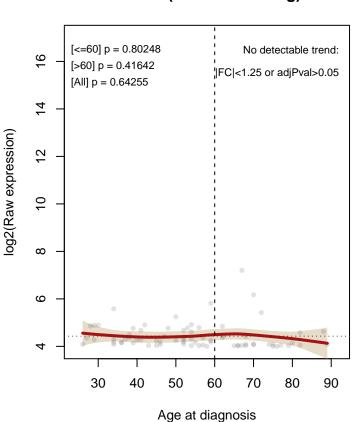




HIF1AN (non-ER binding)

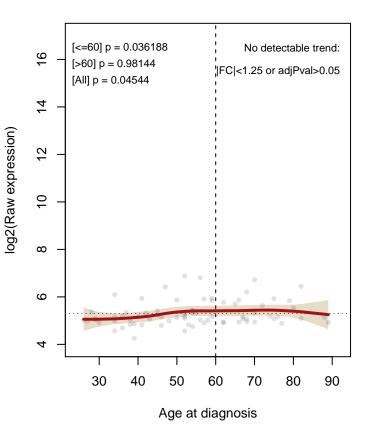
HIF3A (non-ER binding)

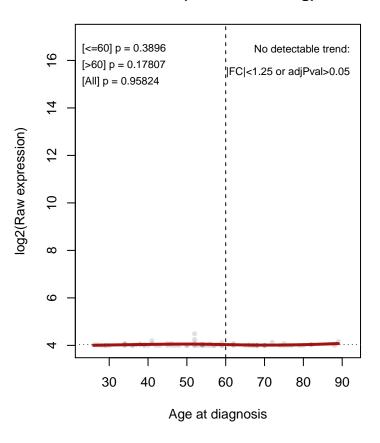




HNF1A (non-ER binding)

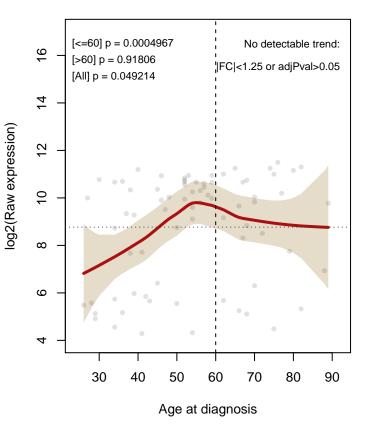
HNF1B (non-ER binding)

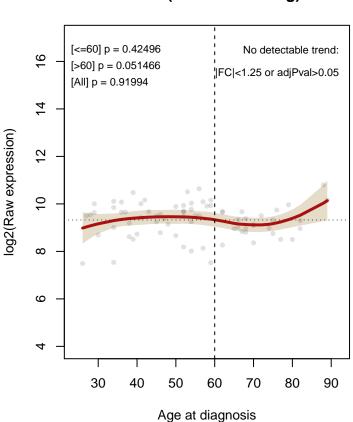




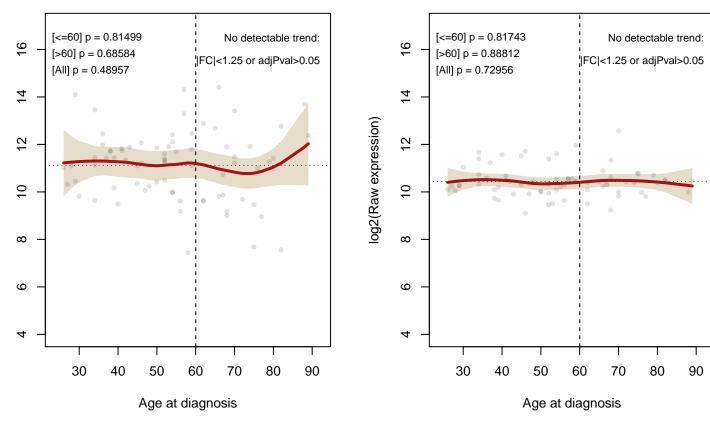
HOXC10 (non-ER binding)

HRAS (non-ER binding)



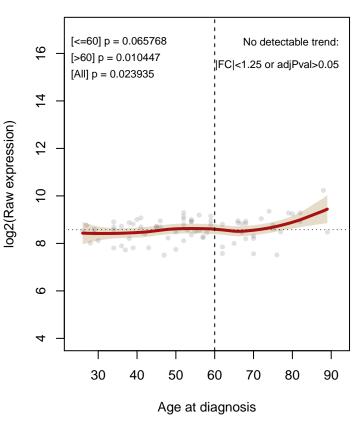


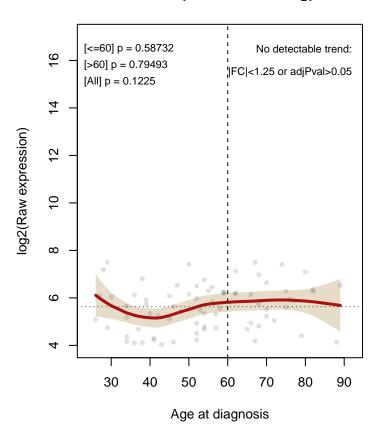
HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.12231 No detectable trend: [<=60] p = 0.60543No detectable trend: 16 16 [>60] p = 0.016117 [>60] p = 0.12102 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.377[All] p = 0.817754 4 log2(Raw expression) log2(Raw expression) 12 12 10 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 IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.81499No detectable trend: [<=60] p = 0.81743No detectable trend: 16 16 [>60] p = 0.68584 [>60] p = 0.88812 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.48957[All] p = 0.729564 4 log2(Raw expression)





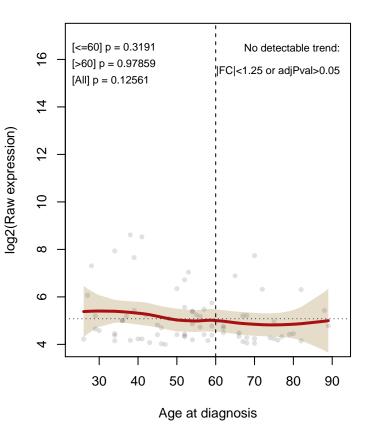
IL2RA (non-ER binding)

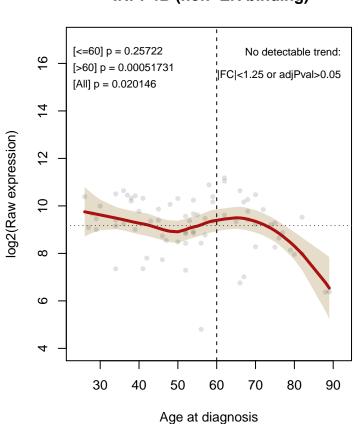


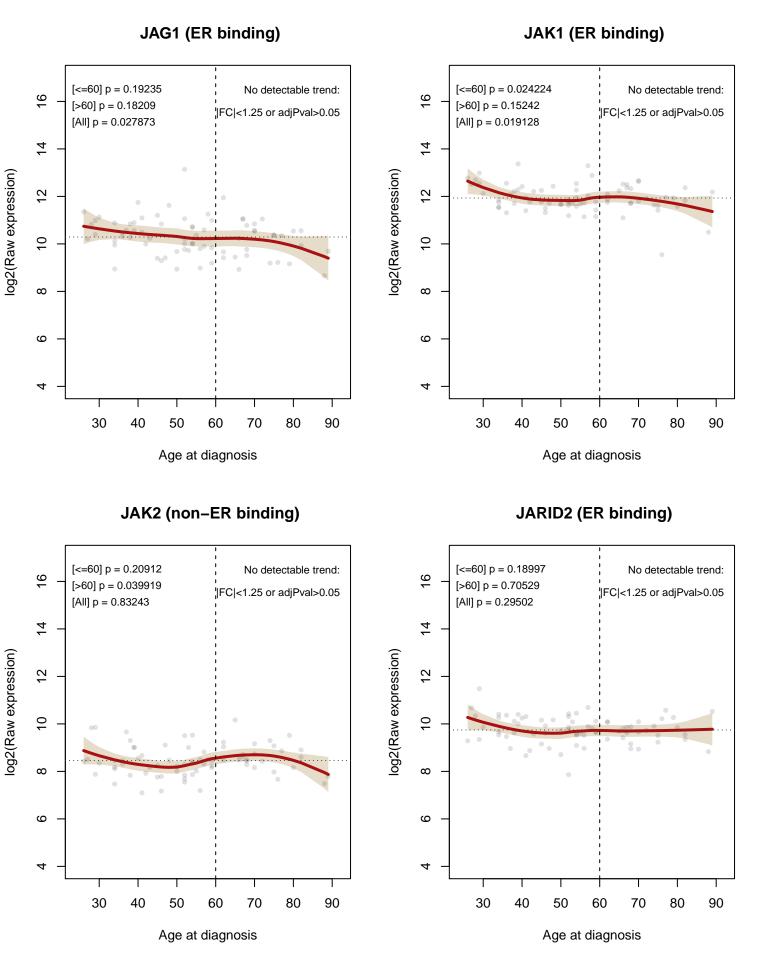


IL6 (non-ER binding)

INPP4B (non-ER binding)







JUN (non-ER binding) [<=60] p = 0.95935No detectable trend: 16 [>60] p = 0.88308|FC|<1.25 or adjPval>0.05 [All] p = 0.333364 log2(Raw expression) 12 10

ω

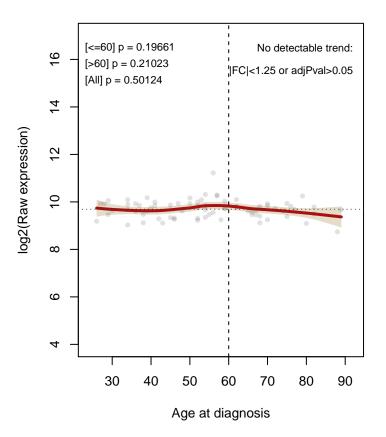
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KDM2B (non-ER binding)



KDM6A (non-ER binding)

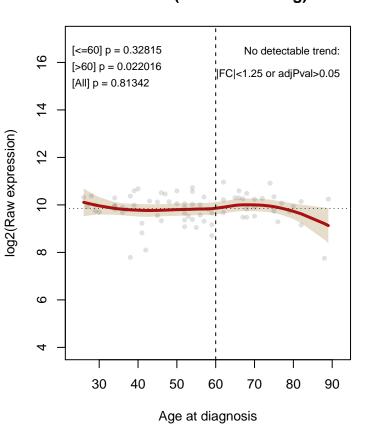
Age at diagnosis

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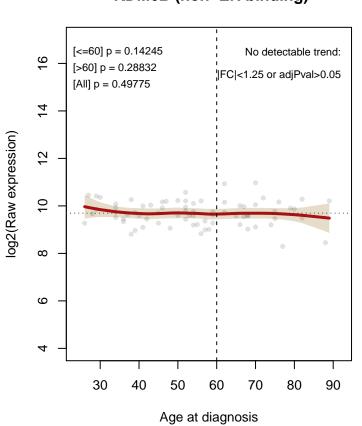
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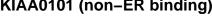
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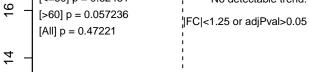
KDM6B (non-ER binding)







[<=60] p = 0.62451No detectable trend:





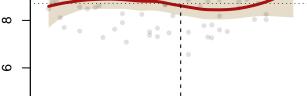
log2(Raw expression)

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Age at diagnosis

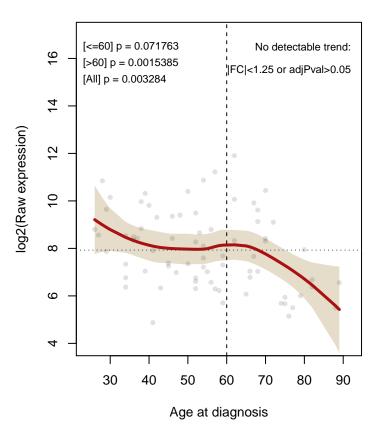
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KIT (non-ER binding)

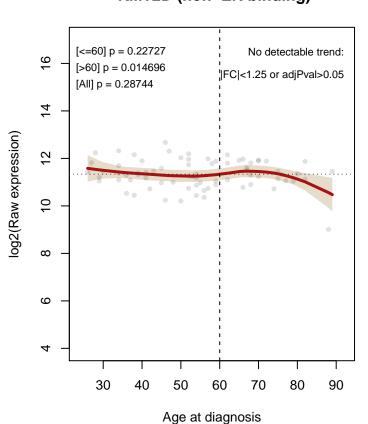


KMT2C (non-ER binding)

[<=60] p = 0.068736No detectable trend: 16 [>60] p = 0.1482 |FC|<1.25 or adjPval>0.05 [AII] p = 0.438084 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

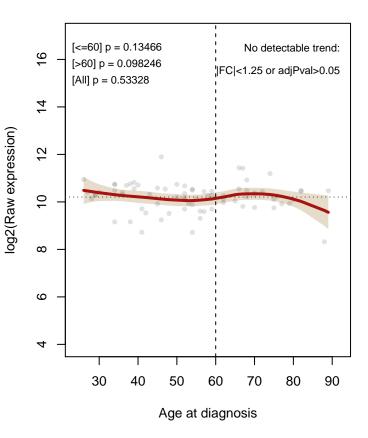
Age at diagnosis

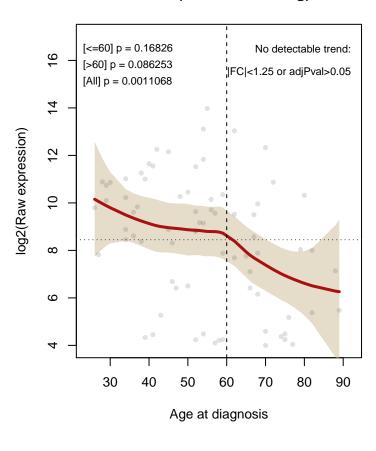
KMT2D (non-ER binding)





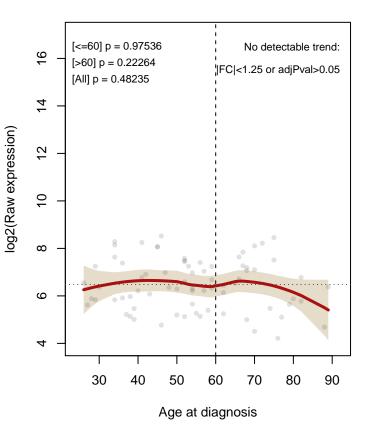
KRT5 (non-ER binding)

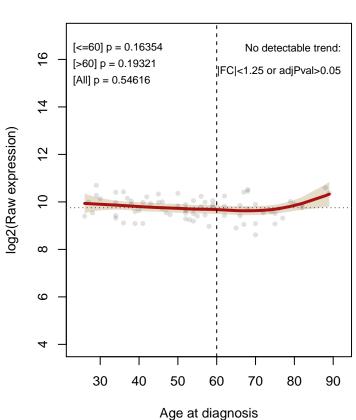




L3MBTL1 (non-ER binding)

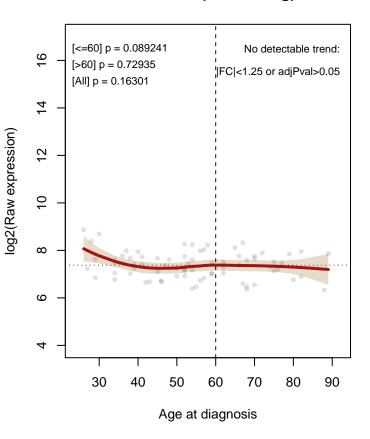
L3MBTL2 (non-ER binding)

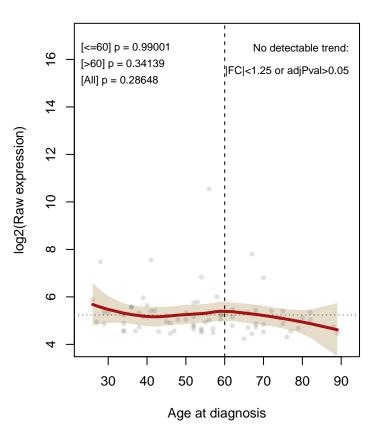




L3MBTL3 (ER binding)

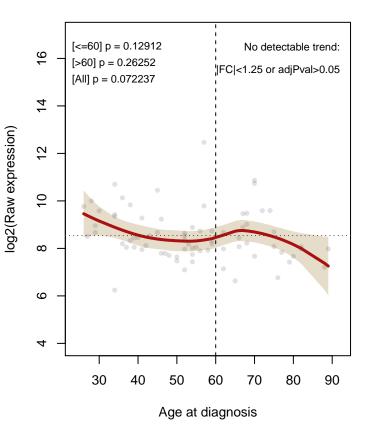
L3MBTL4 (non-ER binding)

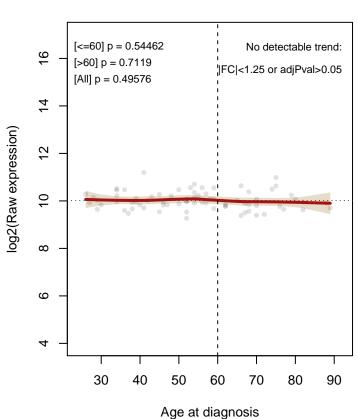


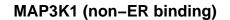


LEF1 (non-ER binding)

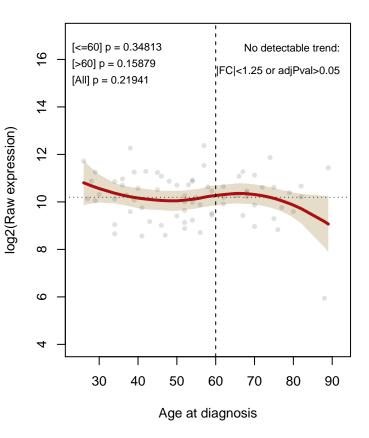
MAP2K1 (non-ER binding)

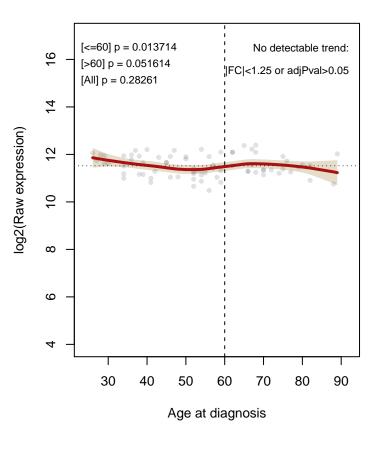






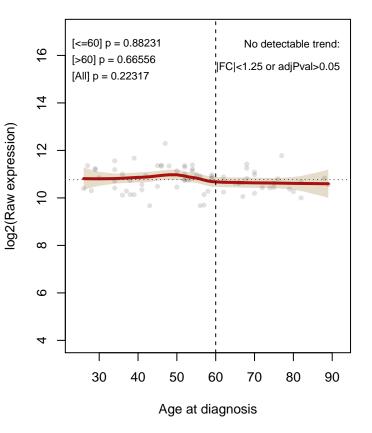
MAPK1 (non-ER binding)

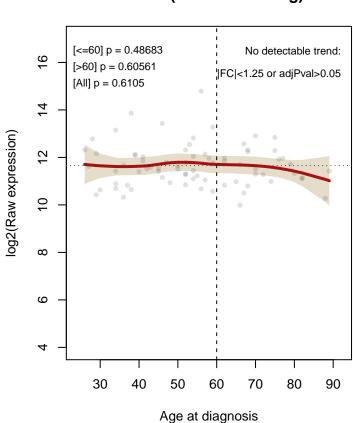




MAPK3 (non-ER binding)

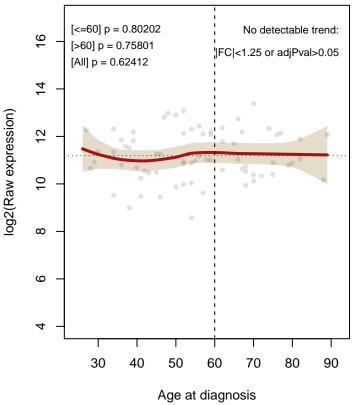
MDM2 (non-ER binding)

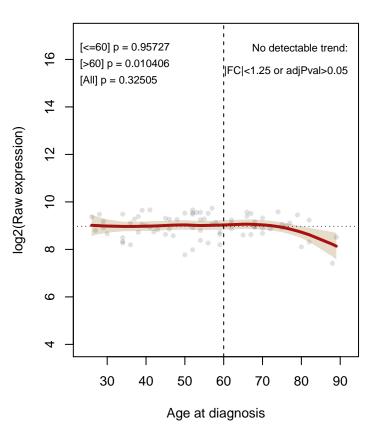






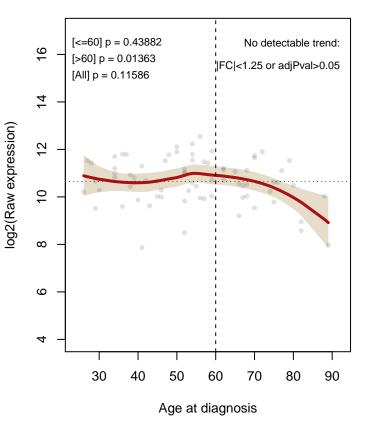
MTF2 (non-ER binding)

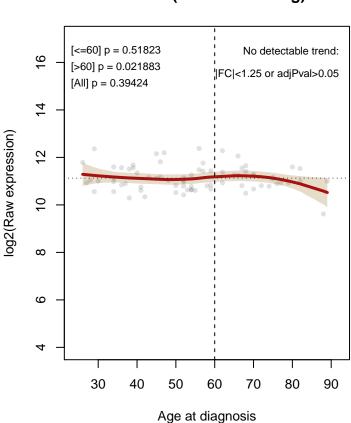




MYC (non-ER binding)

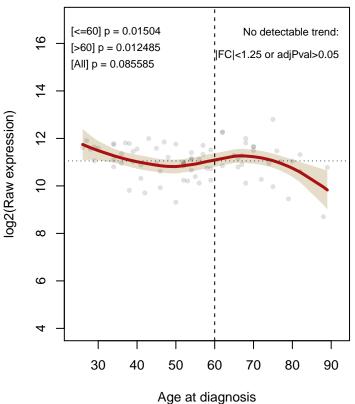
NCOA6 (non-ER binding)

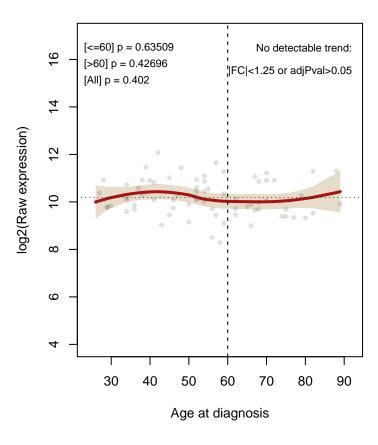






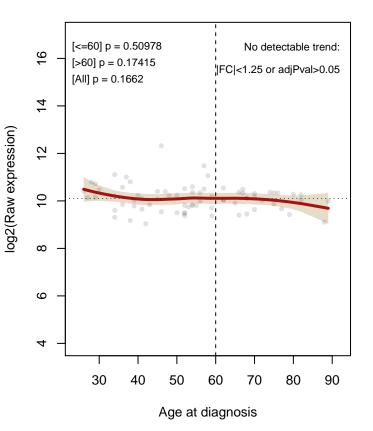
NES (non-ER binding)

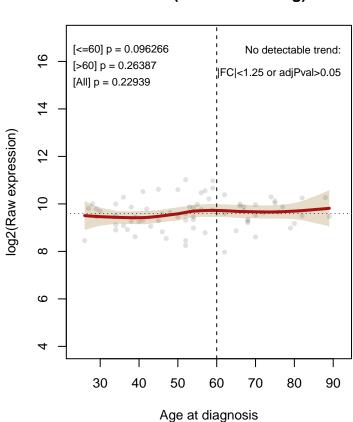




NFKB1 (non-ER binding)

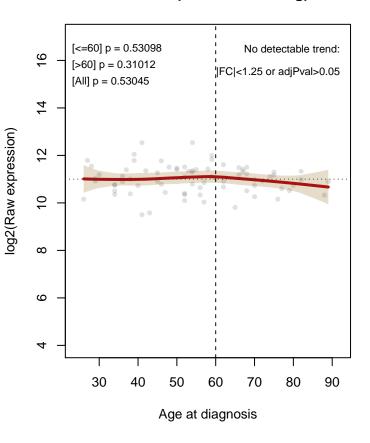
NFKB2 (non-ER binding)

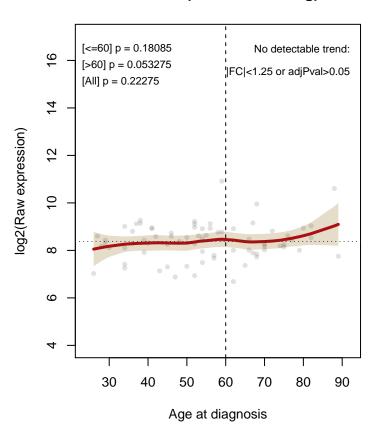




NFKBIA (non-ER binding)

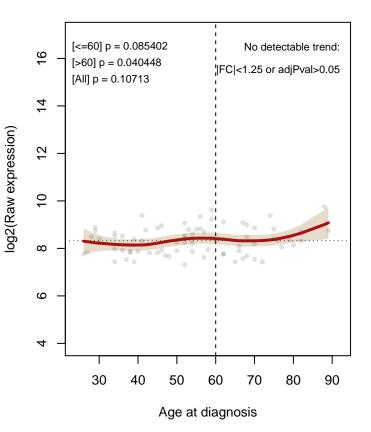
NFKBIB (non-ER binding)

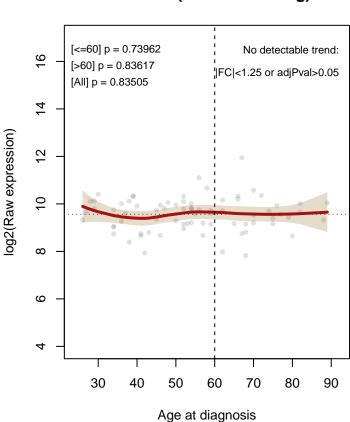




NFKBIE (non-ER binding)

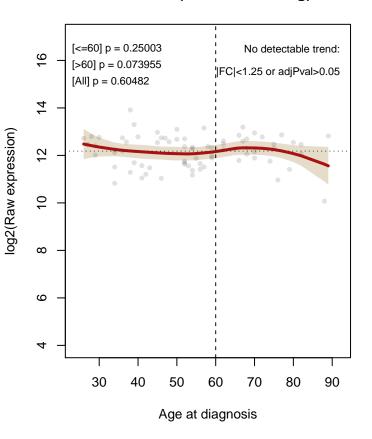
NOTCH1 (non-ER binding)

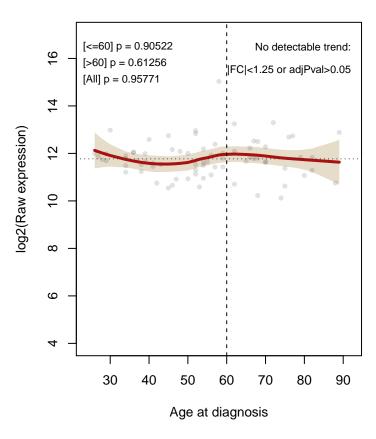




NOTCH2 (non-ER binding)

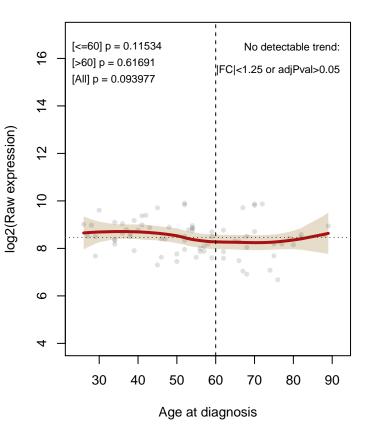
NOTCH3 (non-ER binding)

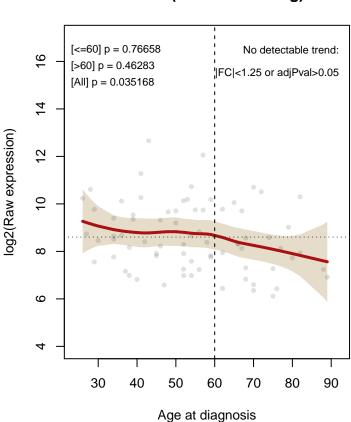


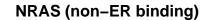


NOTCH4 (non-ER binding)

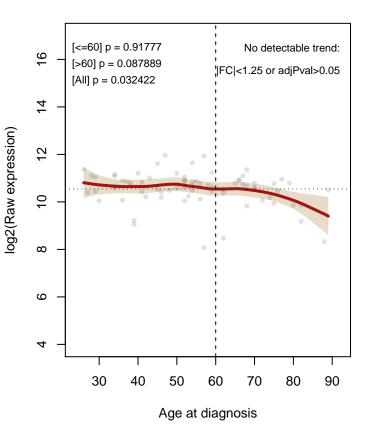
NR4A2 (non-ER binding)

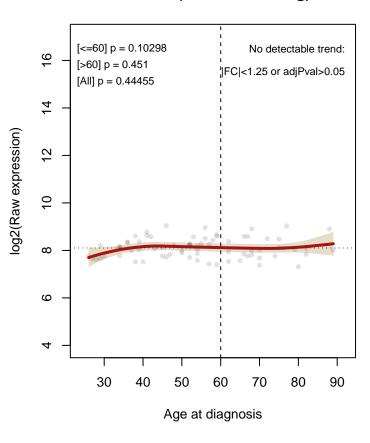






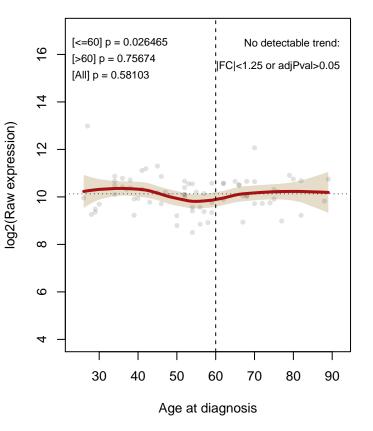
PCGF1 (non-ER binding)

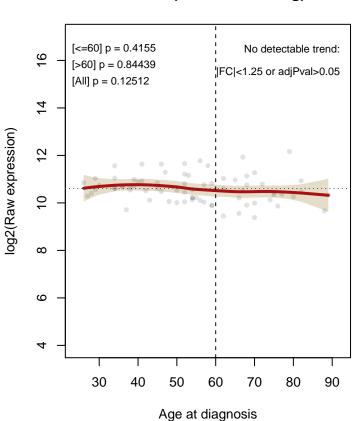




PCGF2 (non-ER binding)

PCGF3 (non-ER binding)







[<=60] p = 0.019803

[>60] p = 0.014391

[AII] p = 0.026776

16

4

12

10

ω

9

30

40

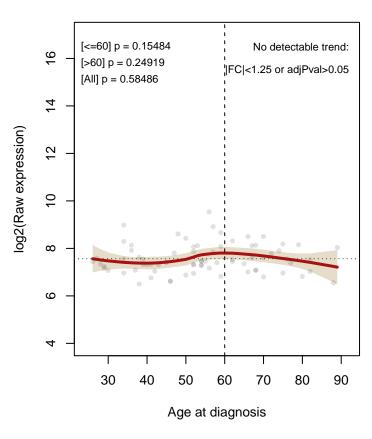
50

log2(Raw expression)

No detectable trend:

|FC|<1.25 or adjPval>0.05

PCGF6 (non-ER binding)



PDGFRA (non-ER binding)

Age at diagnosis

60

70

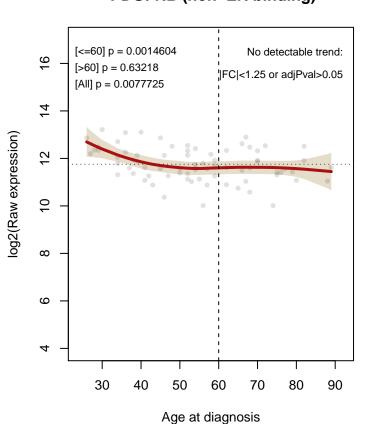
80

90

[<=60] p = 0.062453No detectable trend: 16 [>60] p = 0.43864 |FC|<1.25 or adjPval>0.05 [All] p = 0.0584684 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

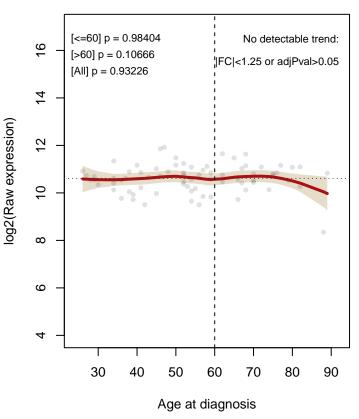
Age at diagnosis

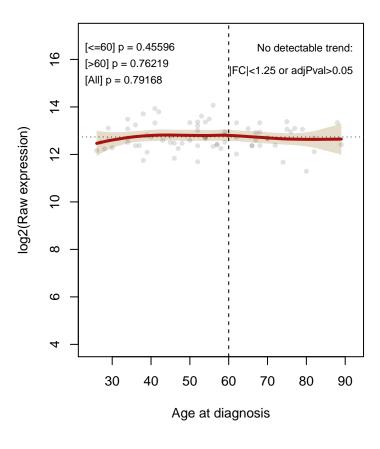
PDGFRB (non-ER binding)





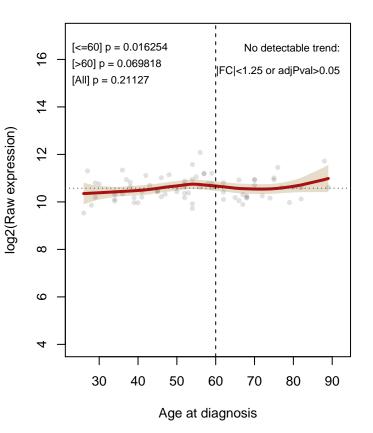
PEBP1 (non-ER binding)

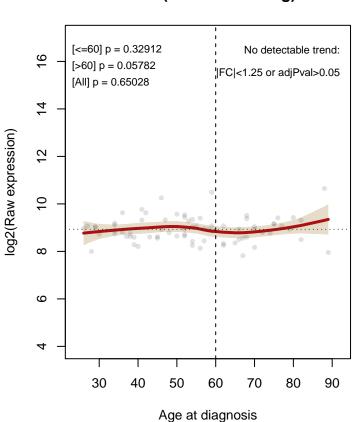


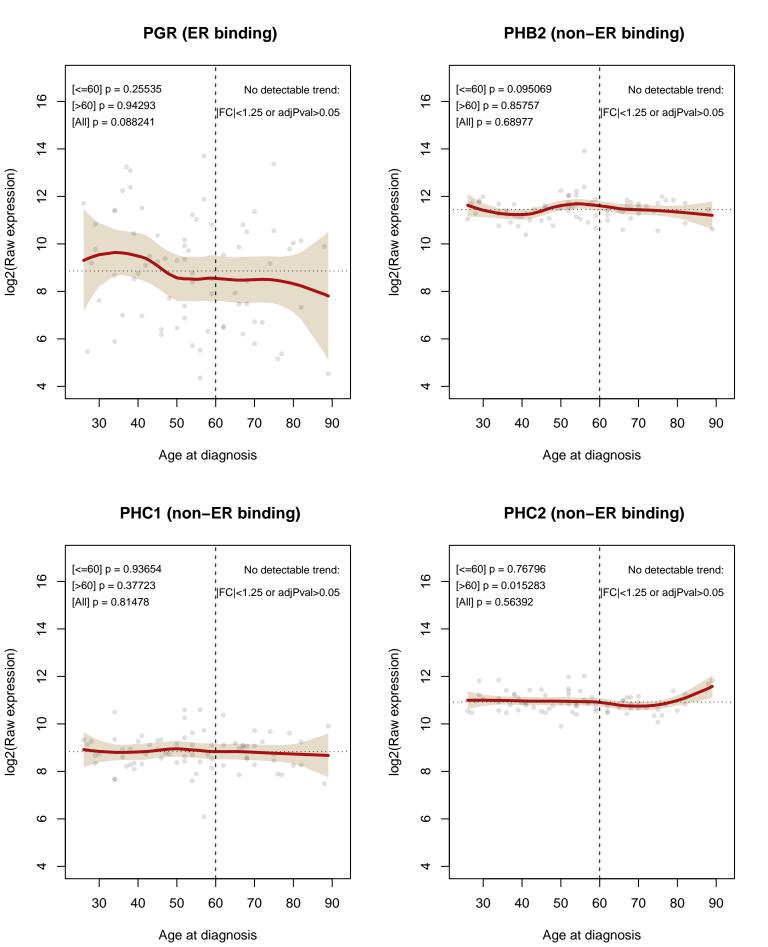


PELP1 (non-ER binding)

PGP (non-ER binding)

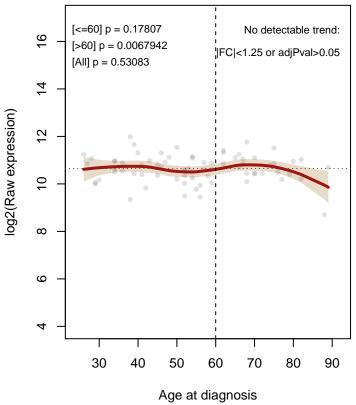


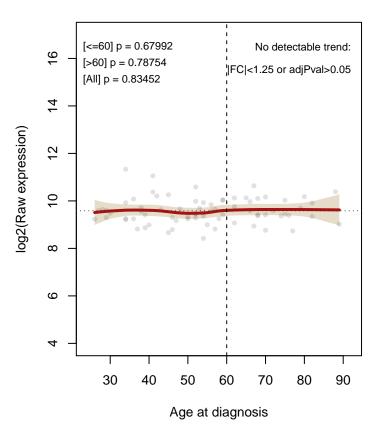




PHC3 (non-ER binding)

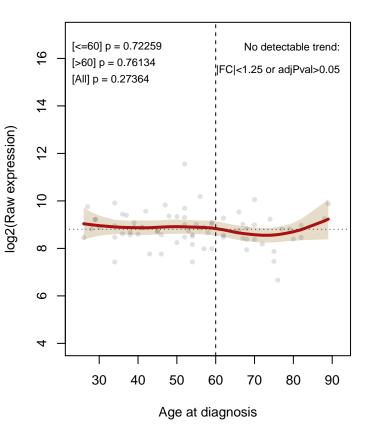
PHF1 (non-ER binding)

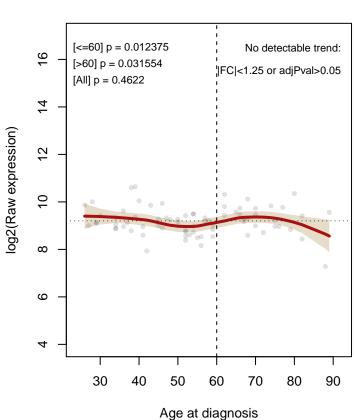




PHF19 (non-ER binding)

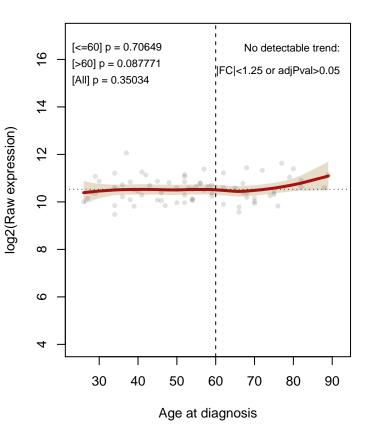
PIK3CA (non-ER binding)

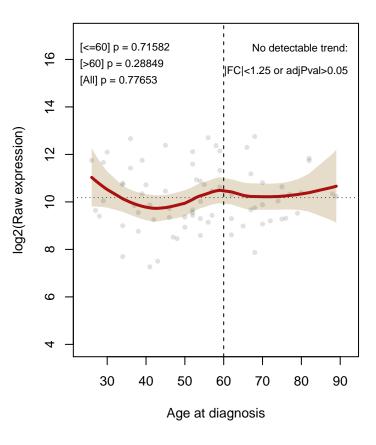






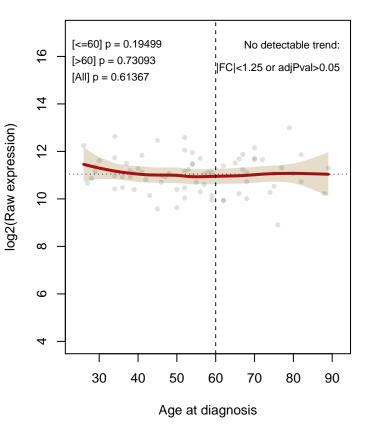
PLAU (non-ER binding)

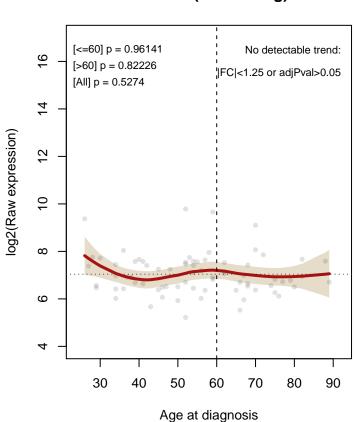


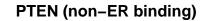


PODXL (non-ER binding)

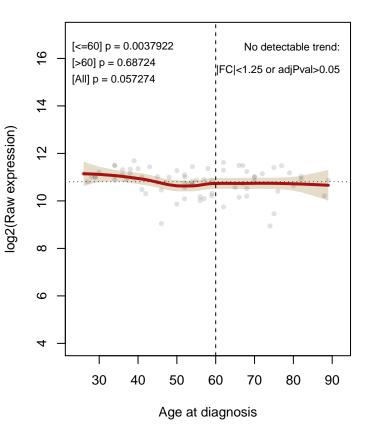
PPARG (ER binding)

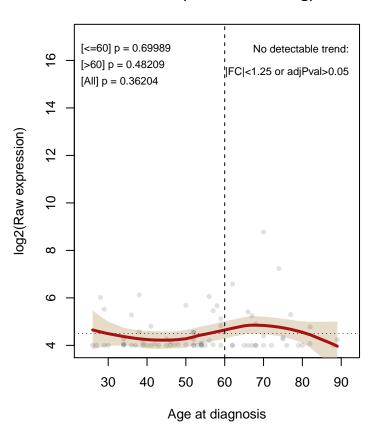






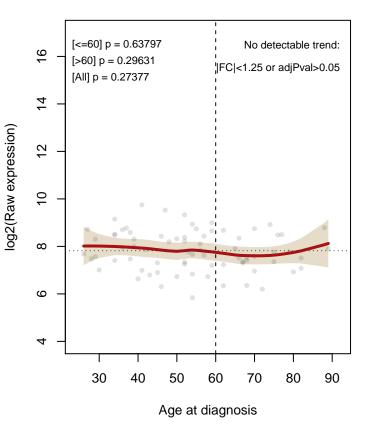
PYDC1 (non-ER binding)

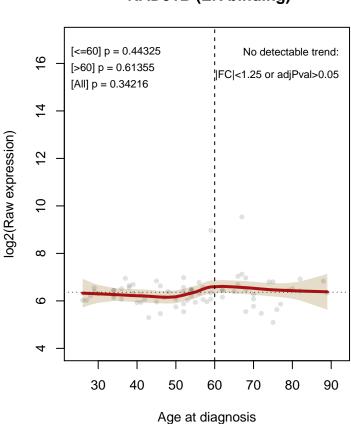




RAD51 (non-ER binding)

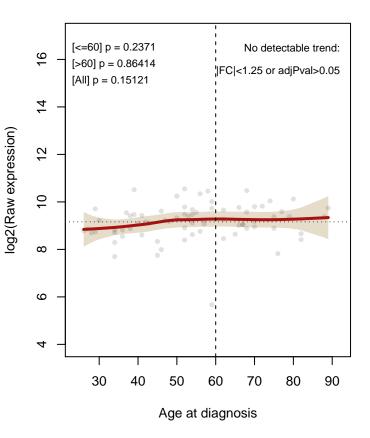
RAD51B (ER binding)

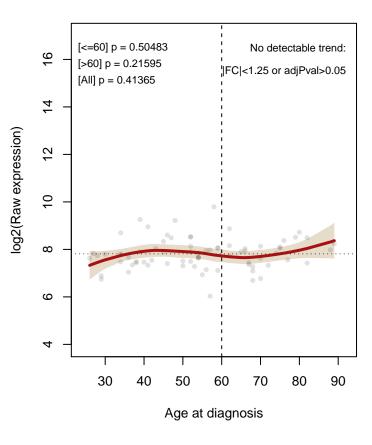




RAD51C (non-ER binding)

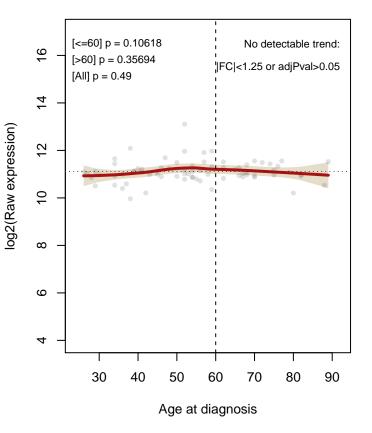
RAD51D (non-ER binding)

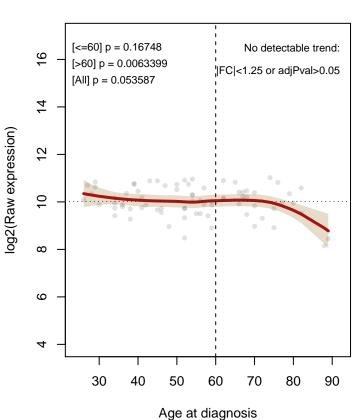




RAF1 (non-ER binding)

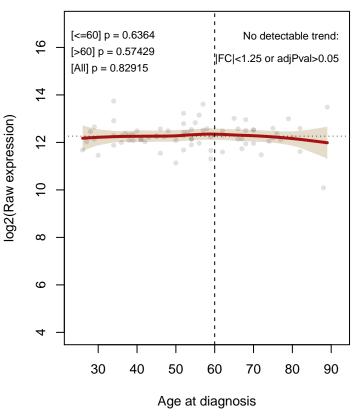
RB1 (non-ER binding)

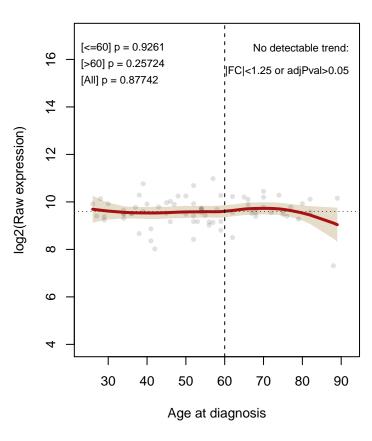






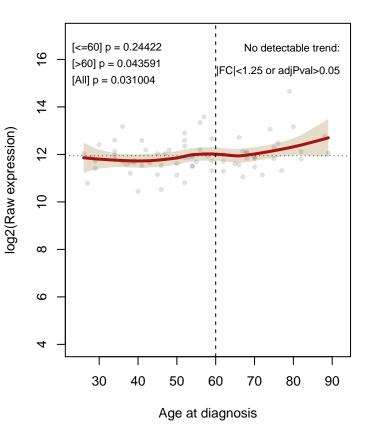
RBBP5 (non-ER binding)

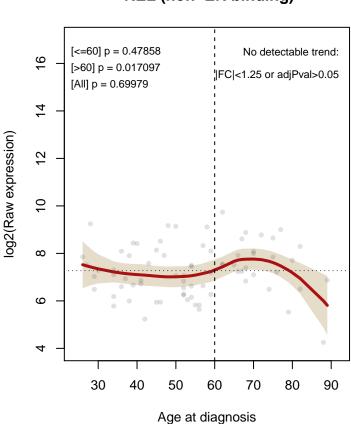


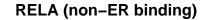


RBBP7 (non-ER binding)

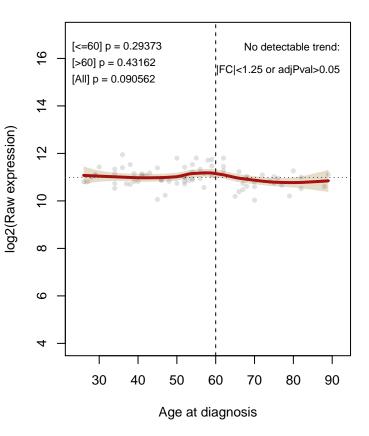
REL (non-ER binding)

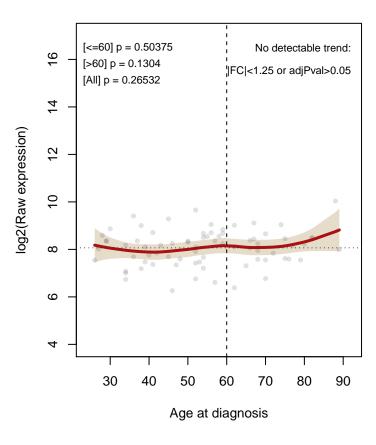






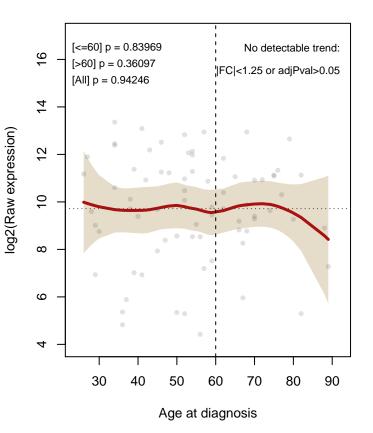
RELB (non-ER binding)

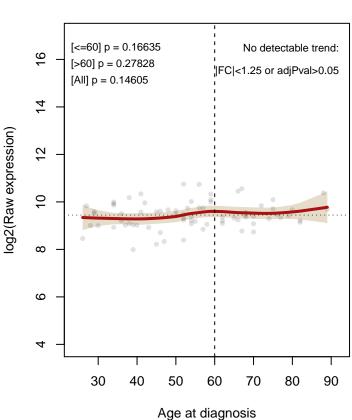


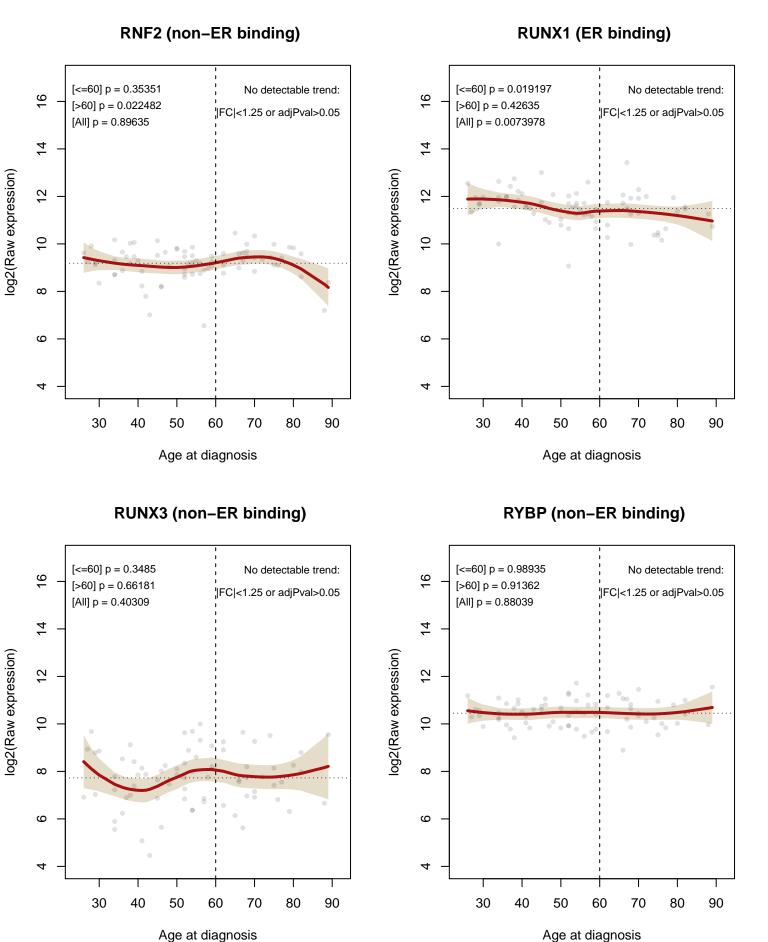


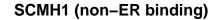
RET (ER binding)

RING1 (non-ER binding)

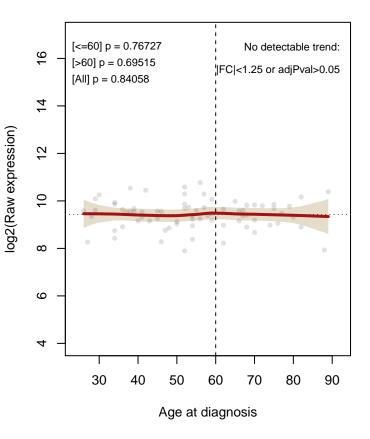


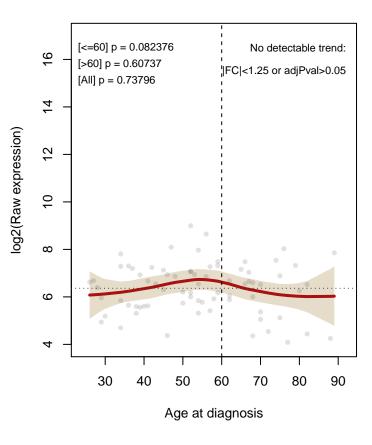






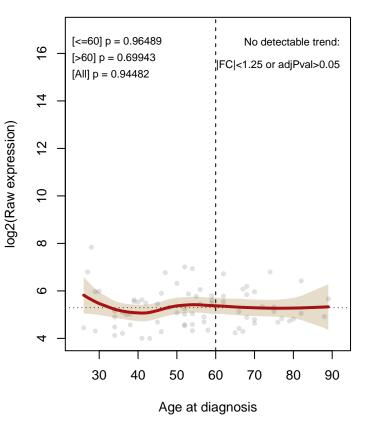
SCML2 (non-ER binding)

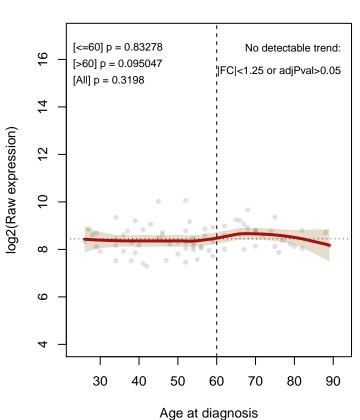




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.67951No detectable trend: [<=60] p = 0.6005No detectable trend: 16 16 [>60] p = 0.2316 [>60] p = 0.81314 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.67567[All] p = 0.461124 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 = 0.086661No detectable trend: [<=60] p = 0.42473No detectable trend: 16 16 [>60] p = 0.676[>60] p = 0.017039 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.062834[All] p = 0.197934 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

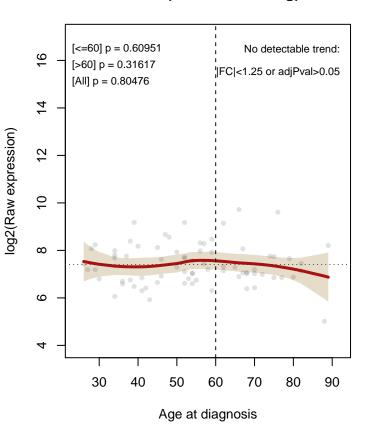
70

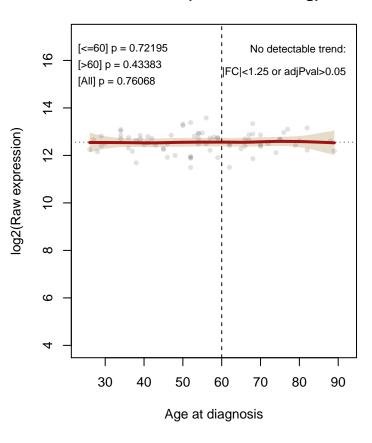
80

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SKP2 (non-ER binding)

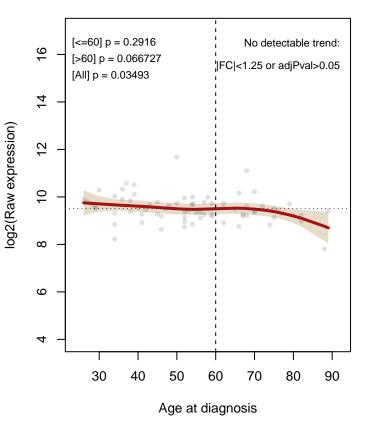
SLC25A3 (non-ER binding)

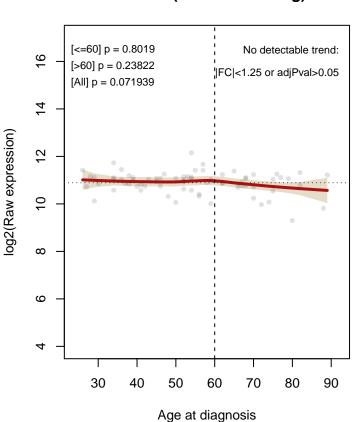




SMAD1 (non-ER binding)

SMAD2 (non-ER binding)





SMAD3 (ER binding) SMAD4 (non-ER binding) [<=60] p = 0.38696No detectable trend: [<=60] p = 0.57532No detectable trend: 16 16 [>60] p = 0.12864 [>60] p = 0.39473 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.31652[All] p = 0.282534 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 SMAD5 (non-ER binding) SMAD6 (non-ER binding) [<=60] p = 0.097709No detectable trend: [<=60] p = 0.42969No detectable trend: 16 16 [>60] p = 0.49831 [>60] p = 0.24126 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.76047[AII] p = 0.790074 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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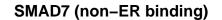
60

Age at diagnosis

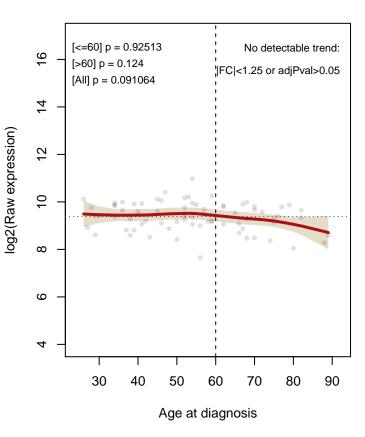
70

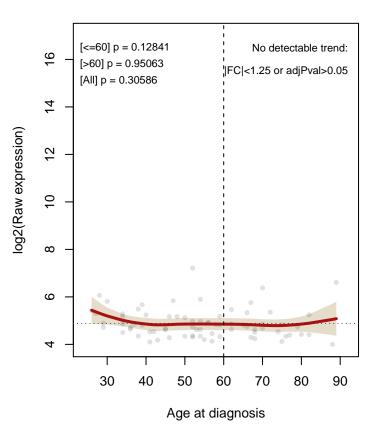
80

90



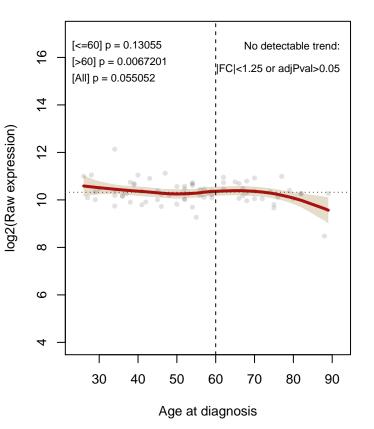
SMAD9 (non-ER binding)

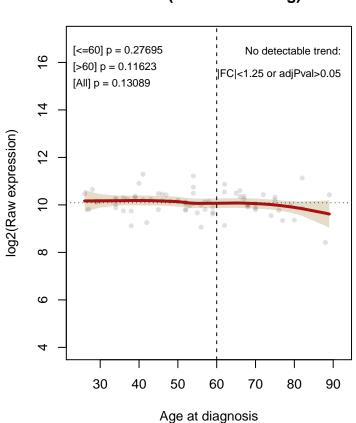


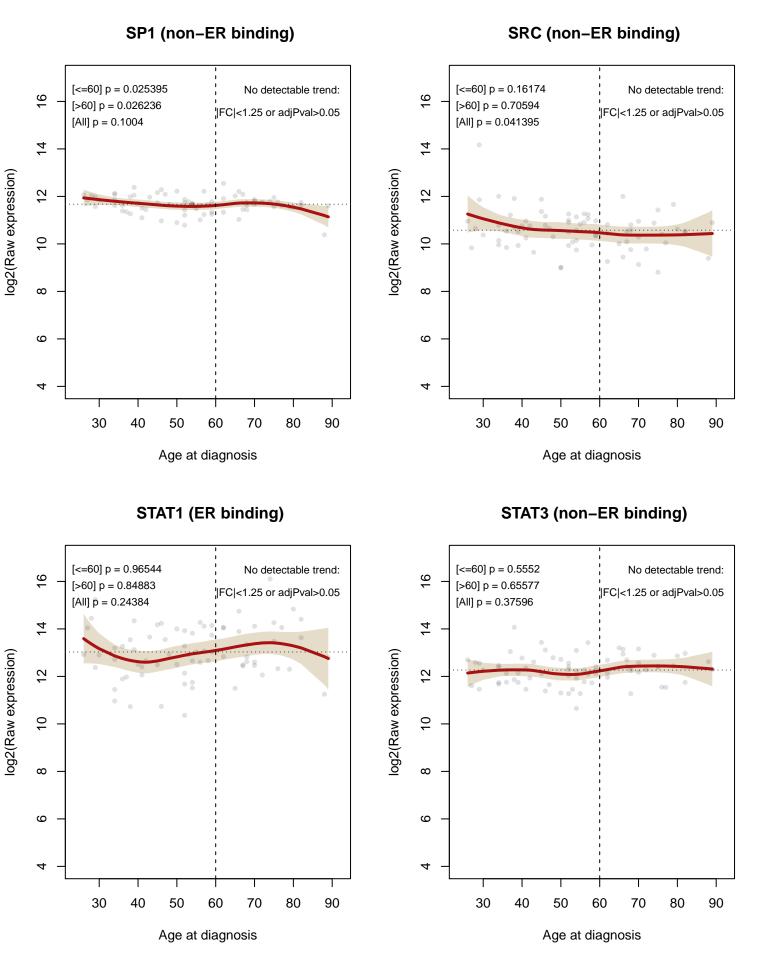


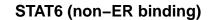
SOS1 (non-ER binding)

SOS2 (non-ER binding)

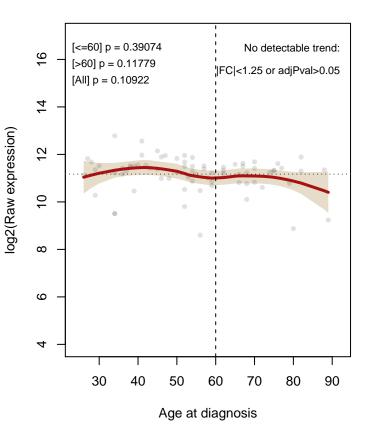


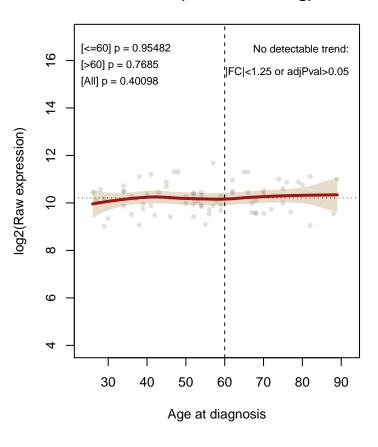






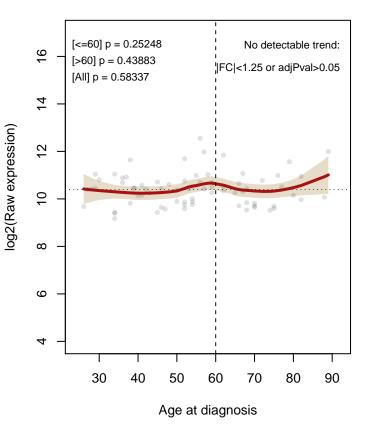
SUZ12 (non-ER binding)

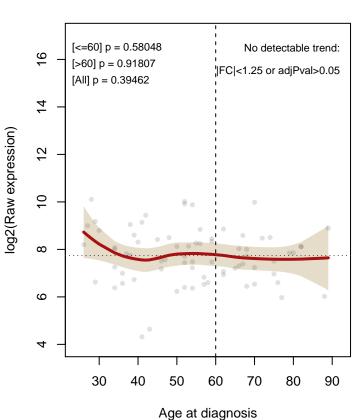




TCF3 (non-ER binding)

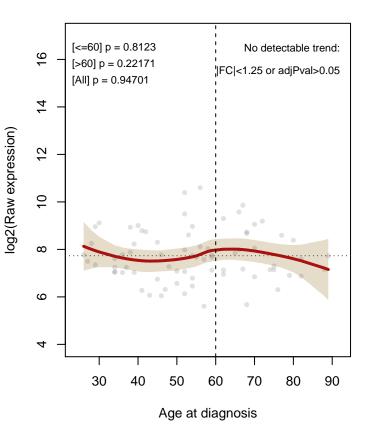
TCF7 (non-ER binding)

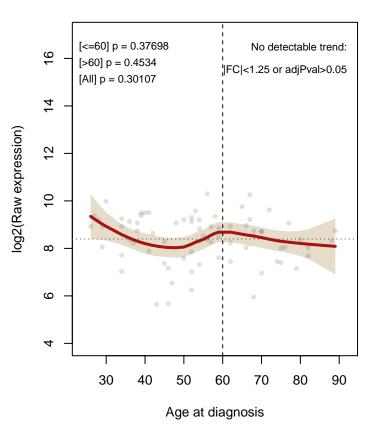






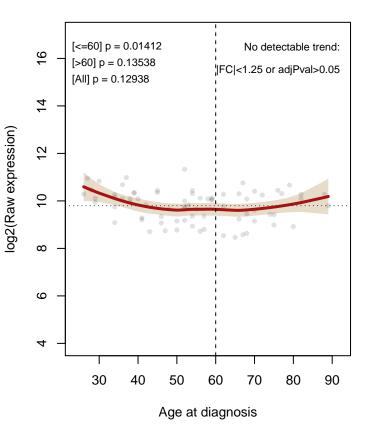
TCF7L2 (non-ER binding)

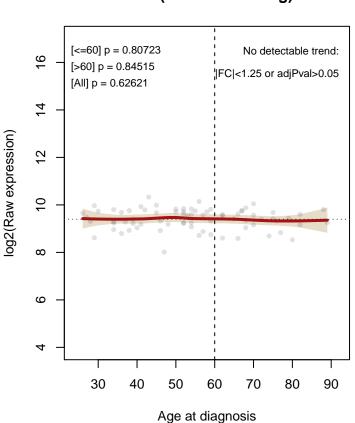


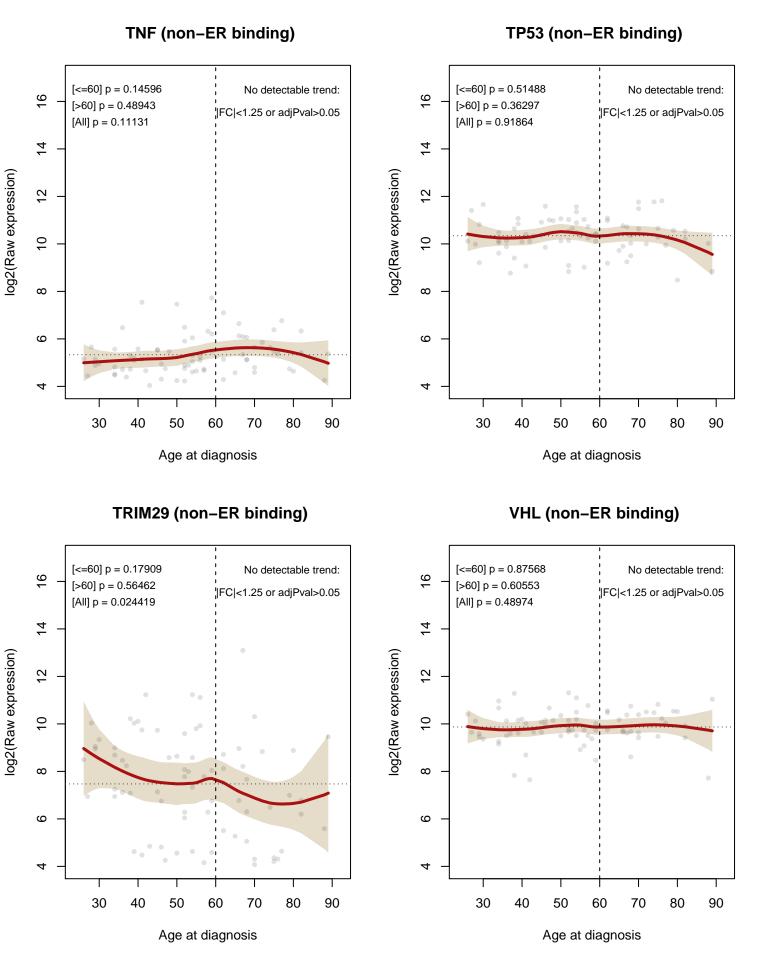


TGFB1 (non-ER binding)

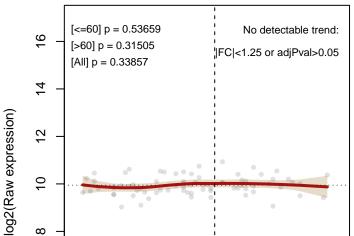
TK2 (non-ER binding)

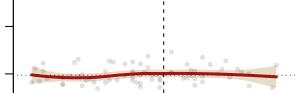








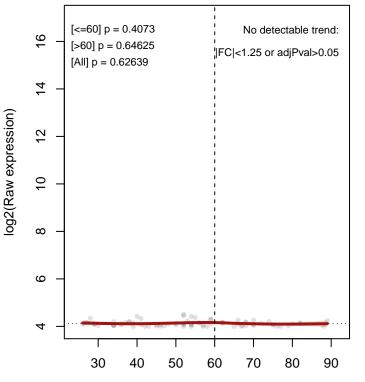




ω

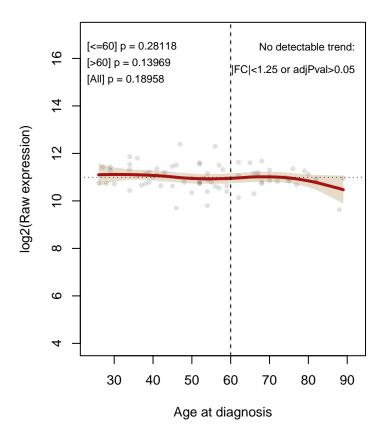
Age at diagnosis

WNT1 (non-ER binding)

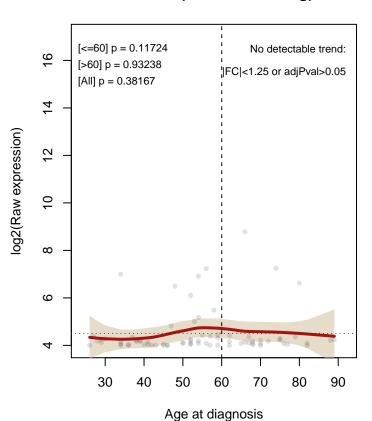


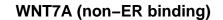
Age at diagnosis

WHSC1 (non-ER binding)

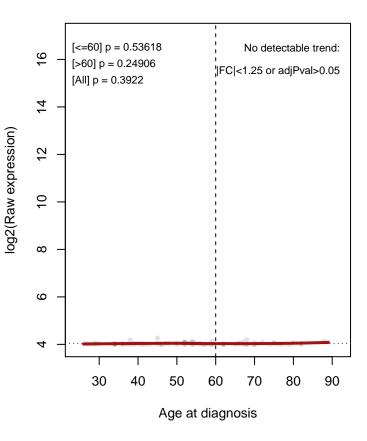


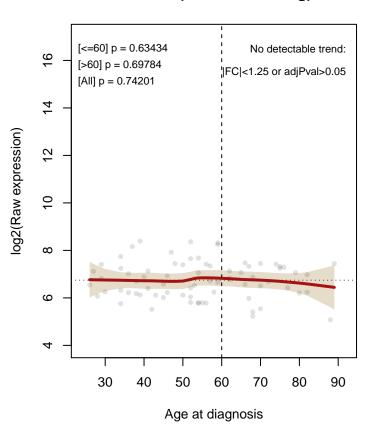
WNT3A (non-ER binding)





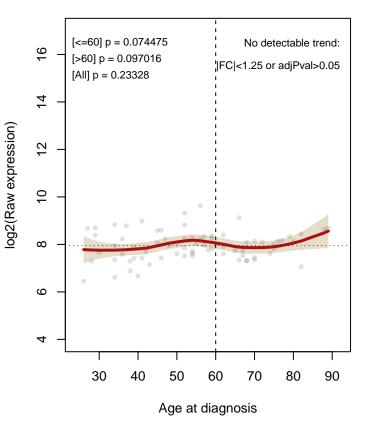
XRCC2 (non-ER binding)

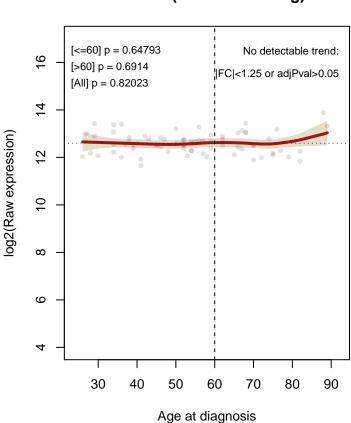




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)





YAF2 (non-ER binding)

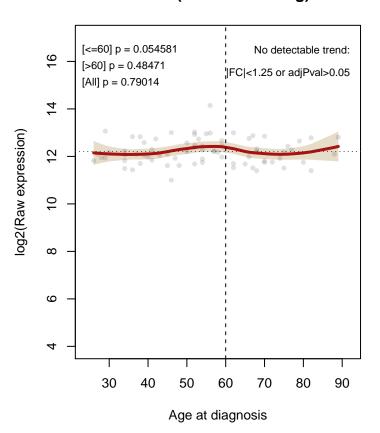
| Second | S

30

40

50

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

60

70

80

90

