

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.34695No detectable trend: [<=60] p = 0.1022 No detectable trend: 16 16 [>60] p = 0.50563 [>60] p = 0.81981 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.14429[All] p = 0.330914 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 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 = 0.92398No detectable trend: [<=60] p = 0.41789No detectable trend: 16 16 [>60] p = 0.49806 [>60] p = 0.75205 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.12509[All] p = 0.159554 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ∞ 9 9

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Age at diagnosis

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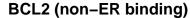
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Age at diagnosis

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[<=60] p = 0.18434

[>60] p = 0.6628

[AII] p = 0.28768

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ω

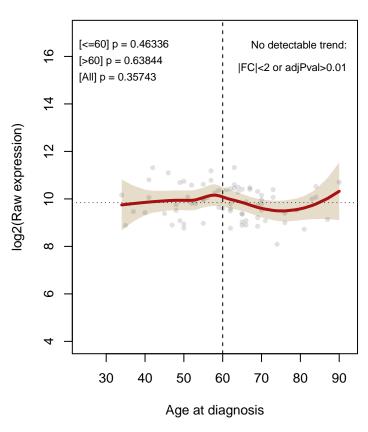
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log2(Raw expression)

No detectable trend:

|FC|<2 or adjPval>0.01

BCL3 (non-ER binding)



BIRC5 (non-ER binding)

Age at diagnosis

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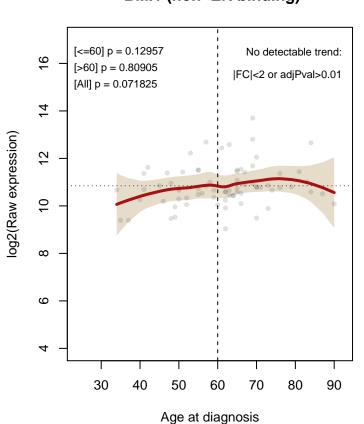
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[<=60] p = 0.061552No detectable trend: 16 [>60] p = 0.10753 |FC|<2 or adjPval>0.01 [AII] p = 0.0600334 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

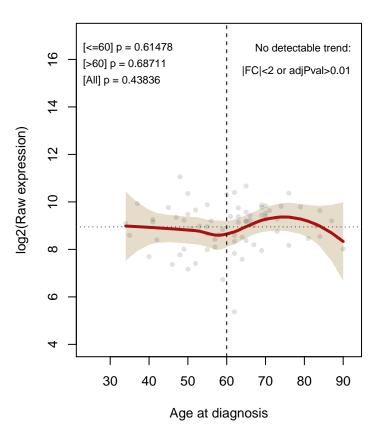
Age at diagnosis

BMI1 (non-ER binding)



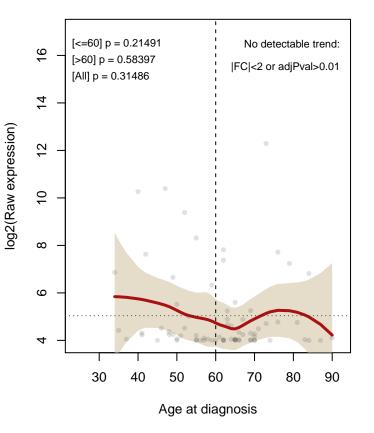
BMX (non-ER binding) [<=60] p = 0.026453 No detectable trend: 16 [>60] p = 0.48212 [All] p = 0.844354 log2(Raw expression) 12

BRCA1 (non-ER binding)

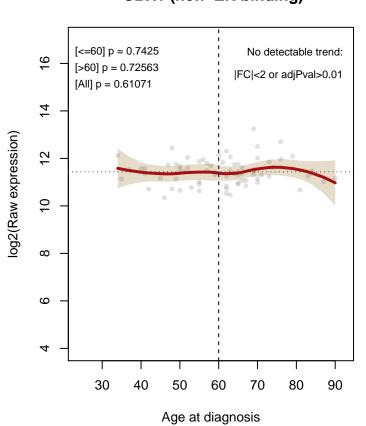


|FC|<2 or adjPval>0.01 10 ∞ 9 30 40 50 60 70 80 90 Age at diagnosis

CA9 (non-ER binding)



CBX1 (non-ER binding)



CBX2 (non-ER binding) **CBX4** (non-ER binding) [<=60] p = 0.87949No detectable trend: [<=60] p = 0.20433No detectable trend: 16 16 [>60] p = 0.87835 [>60] p = 0.053504 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.033598[All] p = 0.712754 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.48512No detectable trend: [<=60] p = 0.14808No detectable trend: 16 16 [>60] p = 0.71807 [>60] p = 0.71994 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.94657[AII] p = 0.477064 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ω

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Age at diagnosis

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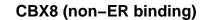
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Age at diagnosis

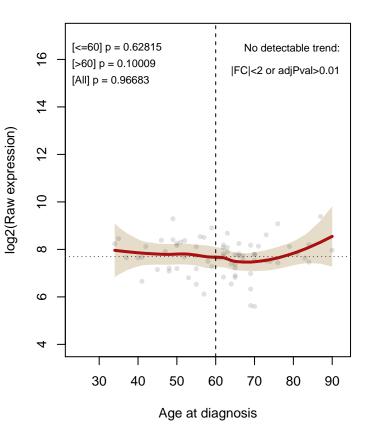
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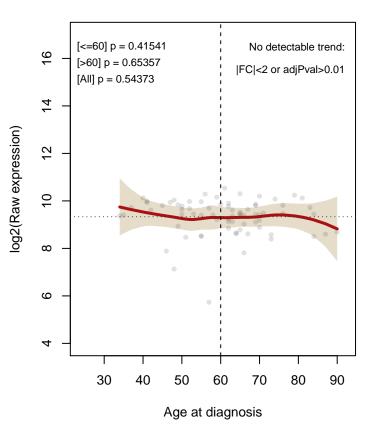
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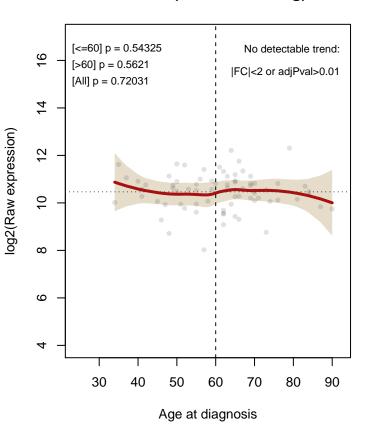
CCNA2 (non-ER binding)

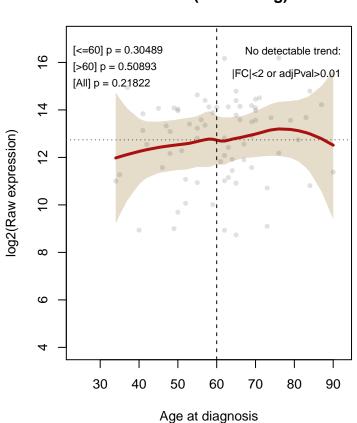


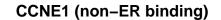


CCNB1 (non-ER binding)

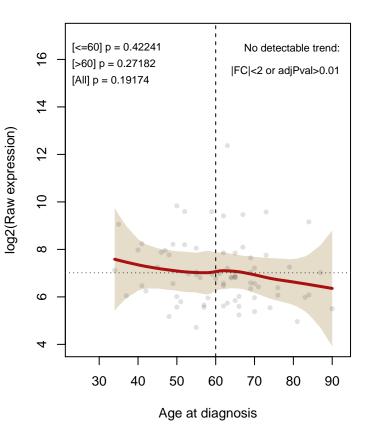
CCND1 (ER binding)

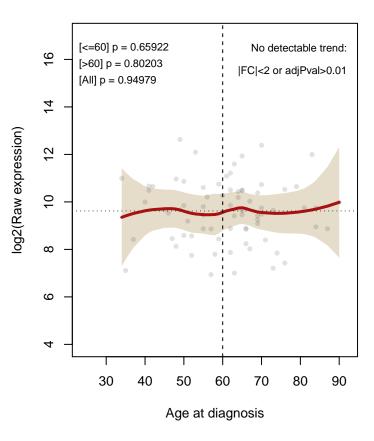






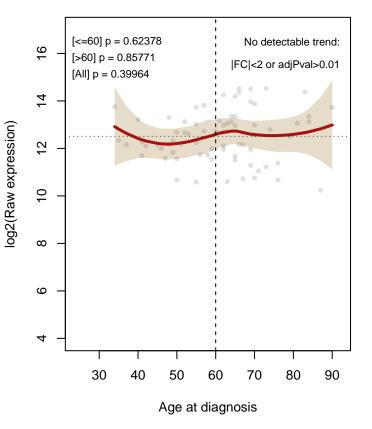
CD163 (non-ER binding)

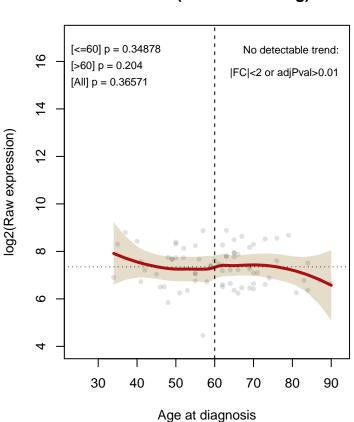




CD44 (non-ER binding)

CDC25C (non-ER binding)





CDH1 (non-ER binding) CDH3 (ER binding) [<=60] p = 0.3145No detectable trend: [<=60] p = 0.55423No detectable trend: 16 16 [>60] p = 0.76671 [>60] p = 0.30711 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.28788 [All] p = 0.428124 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CDK1 (non-ER binding) CDK2 (non-ER binding) [<=60] p = 0.36316No detectable trend: [<=60] p = 0.083216 No detectable trend: 16 16 [>60] p = 0.64327 [>60] p = 0.66687 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.80424[All] p = 0.677544 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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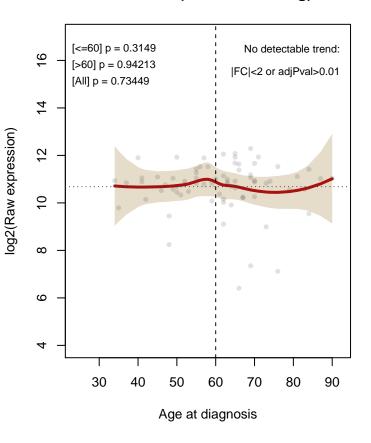
CDK4 (non-ER binding) CDK6 (ER binding) [<=60] p = 0.011065No detectable trend: [<=60] p = 0.27625No detectable trend: 16 16 [>60] p = 0.61984 [>60] p = 0.90492 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.11002[All] p = 0.165714 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CDK7 (non-ER binding) CDKN1A (non-ER binding) [<=60] p = 0.64569No detectable trend: [<=60] p = 0.57973No detectable trend: 16 16 [>60] p = 0.92797 [>60] p = 0.72557 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.057155[All] p = 0.220244 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90

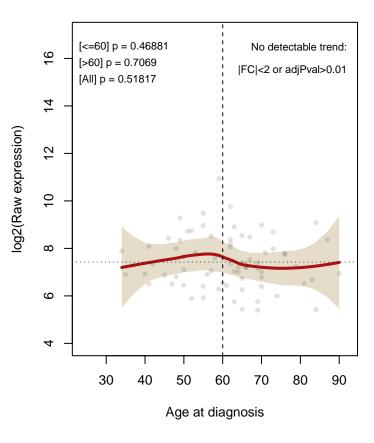
Age at diagnosis

Age at diagnosis

CDKN1B (non-ER binding)

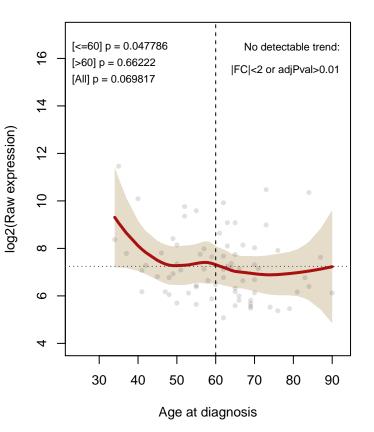
CDKN1C (non-ER binding)

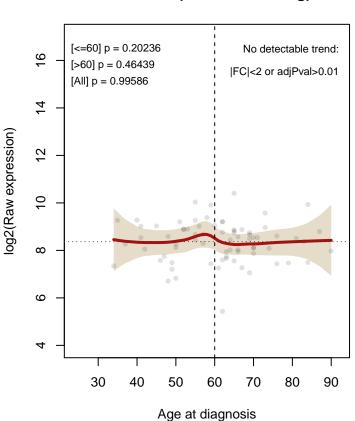




CDKN2A (non-ER binding)

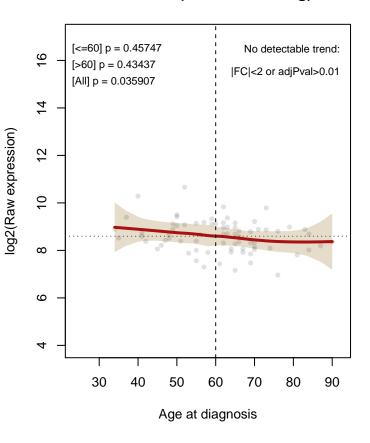
CDKN2B (non-ER binding)

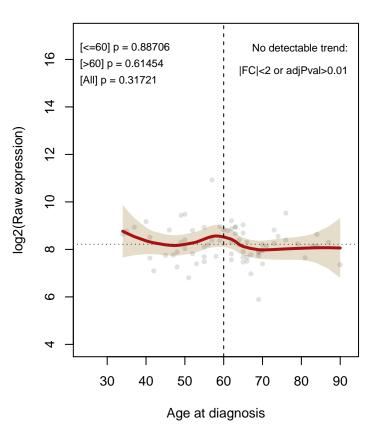




CDKN2C (non-ER binding)

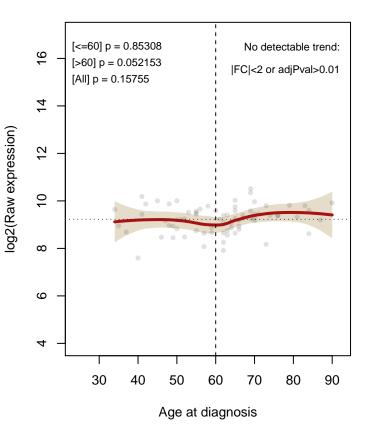
CDKN2D (non-ER binding)

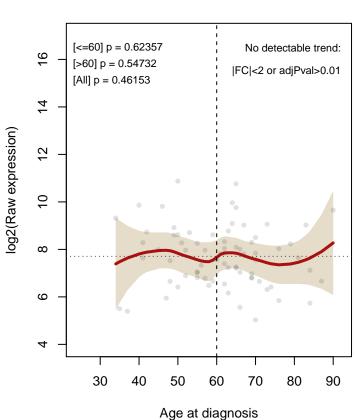




CHUK (non-ER binding)

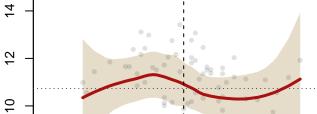
CIITA (non-ER binding)





CLDN3 (non-ER binding)





log2(Raw expression)



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Age at diagnosis

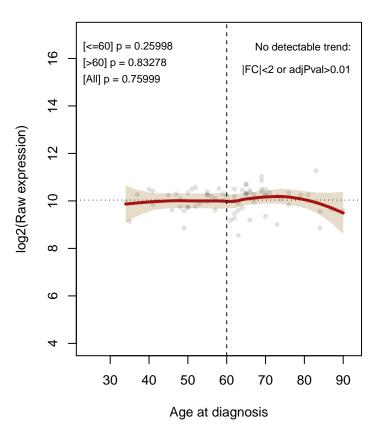
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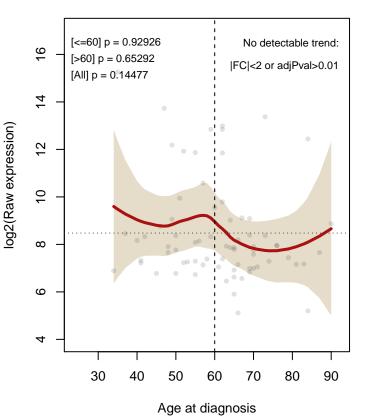
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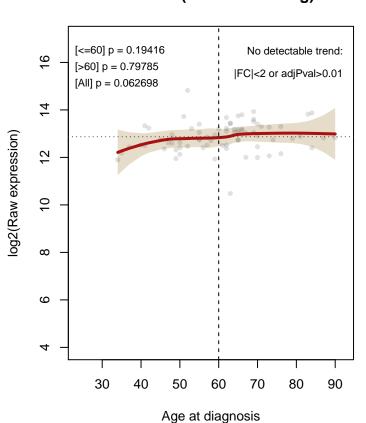
CREB1 (non-ER binding)



CRYAB (non-ER binding)

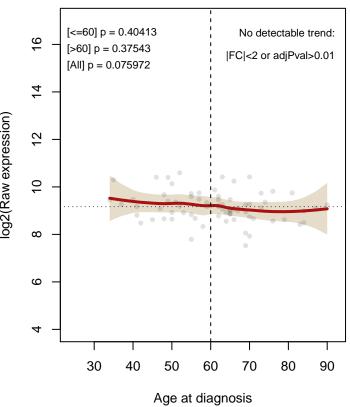


CTNNB1 (non-ER binding)

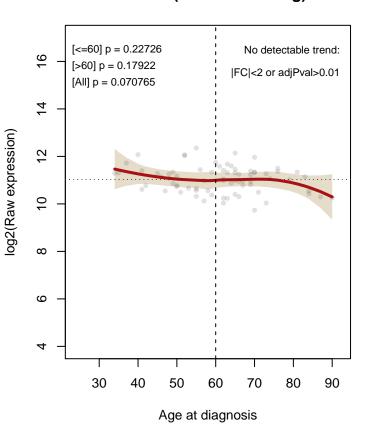


DLC1 (ER binding) [<=60] p = 0.0030559 No detectable trend: 16 [>60] p = 0.44555 |FC|<2 or adjPval>0.01 [All] p = 0.48814 log2(Raw expression) log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90 Age at diagnosis

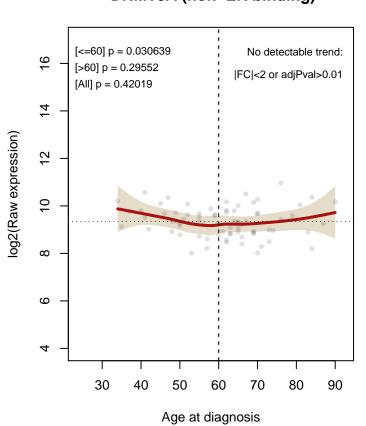
DMAP1 (non-ER binding)



DNMT1 (non-ER binding)



DNMT3A (non-ER binding)



DNMT3B (non-ER binding) [<=60] p = 0.6626No detectable trend: 16 [>60] p = 0.7662 |FC|<2 or adjPval>0.01 [All] p = 0.829794 log2(Raw expression) 12 10

ω

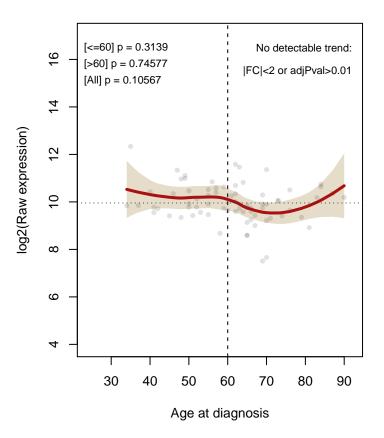
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DVL1 (non-ER binding)



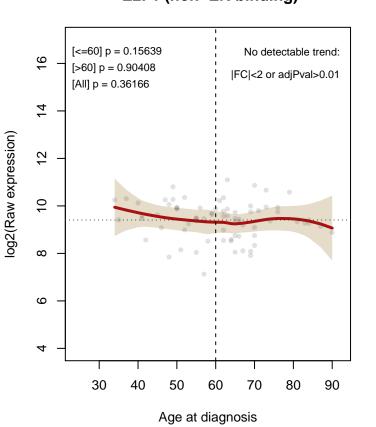
Age at diagnosis E2F1 (non-ER binding)

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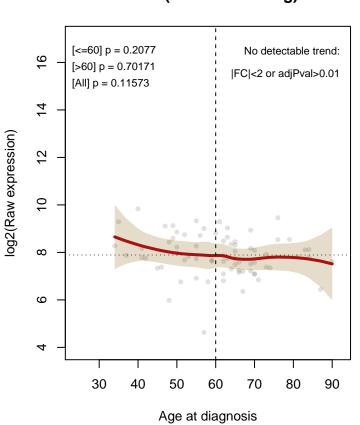
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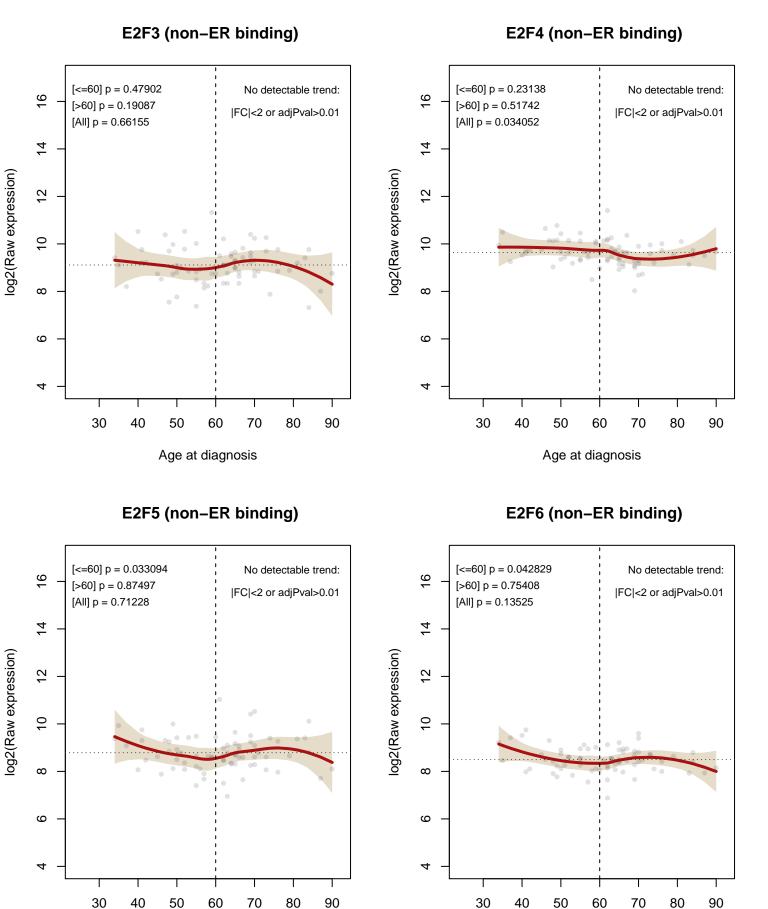
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E2F2 (non-ER binding)





Age at diagnosis

Age at diagnosis

E2F7 (non-ER binding) E2F8 (non-ER binding) [<=60] p = 0.35357No detectable trend: [<=60] p = 0.95104No detectable trend: 16 16 [>60] p = 0.93825 [>60] p = 0.55128 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.98482[All] p = 0.806414 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **EED (non-ER binding)** EGFR (non-ER binding) [<=60] p = 0.36317No detectable trend: [<=60] p = 0.4511 No detectable trend: 16 16 [>60] p = 0.82229 [>60] p = 0.52478 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.14675[All] p = 0.565284 4 log2(Raw expression) log2(Raw expression) 12 12 10 10

ω

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Age at diagnosis

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ω

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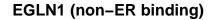
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Age at diagnosis

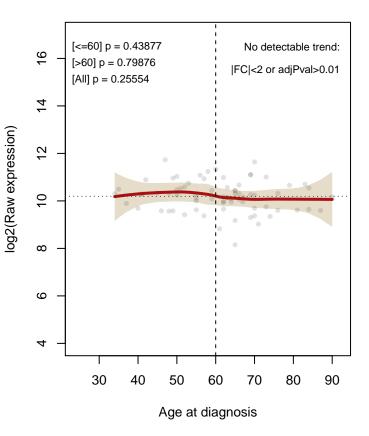
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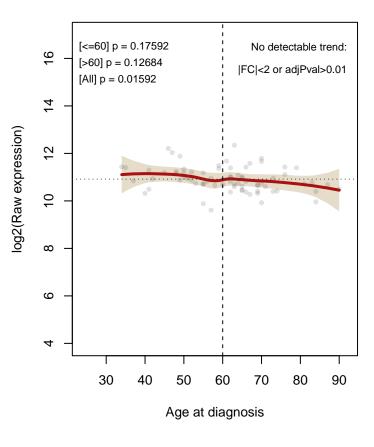
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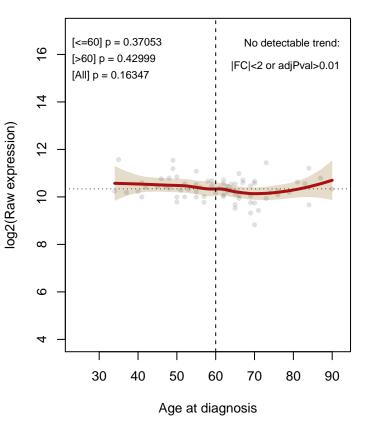
EHMT2 (non-ER binding)

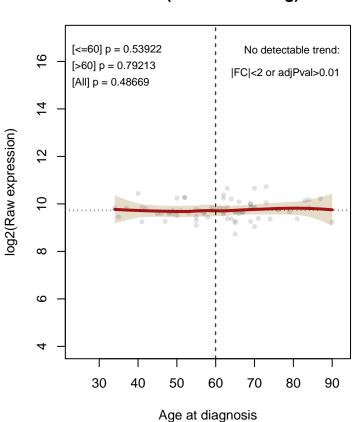




ELAC2 (non-ER binding)

ELK1 (non-ER binding)







[<=60] p = 0.087595

[>60] p = 0.55362

[AII] p = 0.038702

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ω

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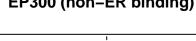
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log2(Raw expression)

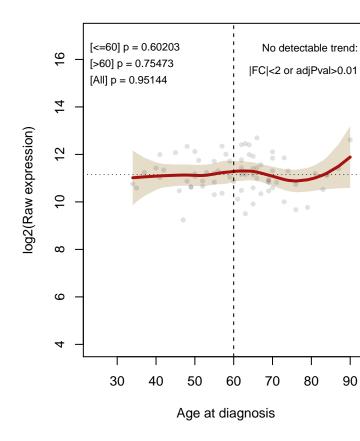
log2(Raw expression)



No detectable trend:

|FC|<2 or adjPval>0.01

EPAS1 (non-ER binding)



EPC1 (non-ER binding)

Age at diagnosis

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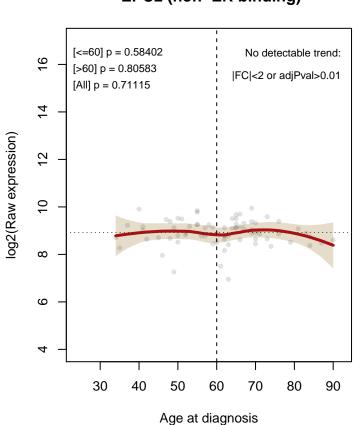
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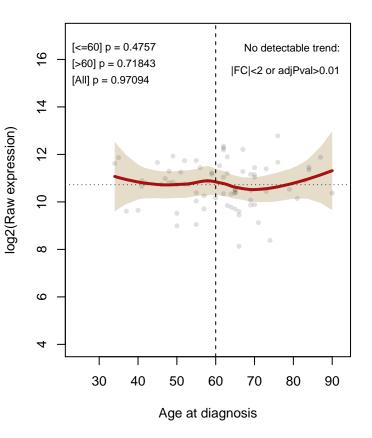
Age at diagnosis

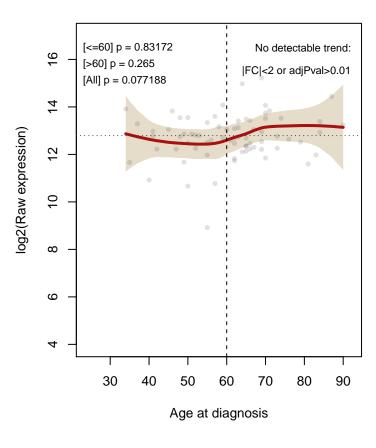
EPC2 (non-ER binding)



EPHB4 (non-ER binding)

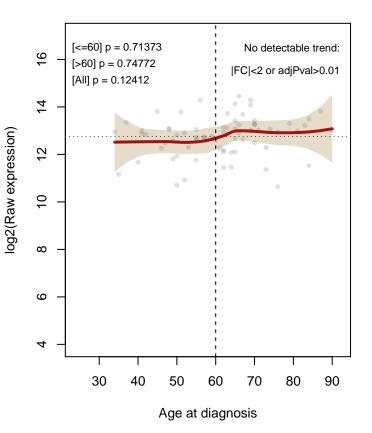
ERBB2 (non-ER binding)

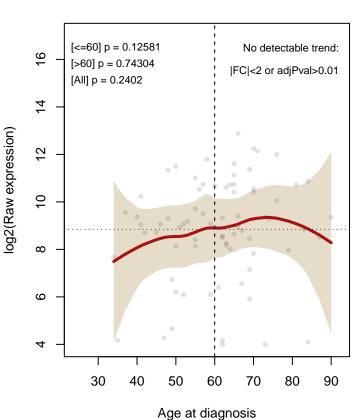


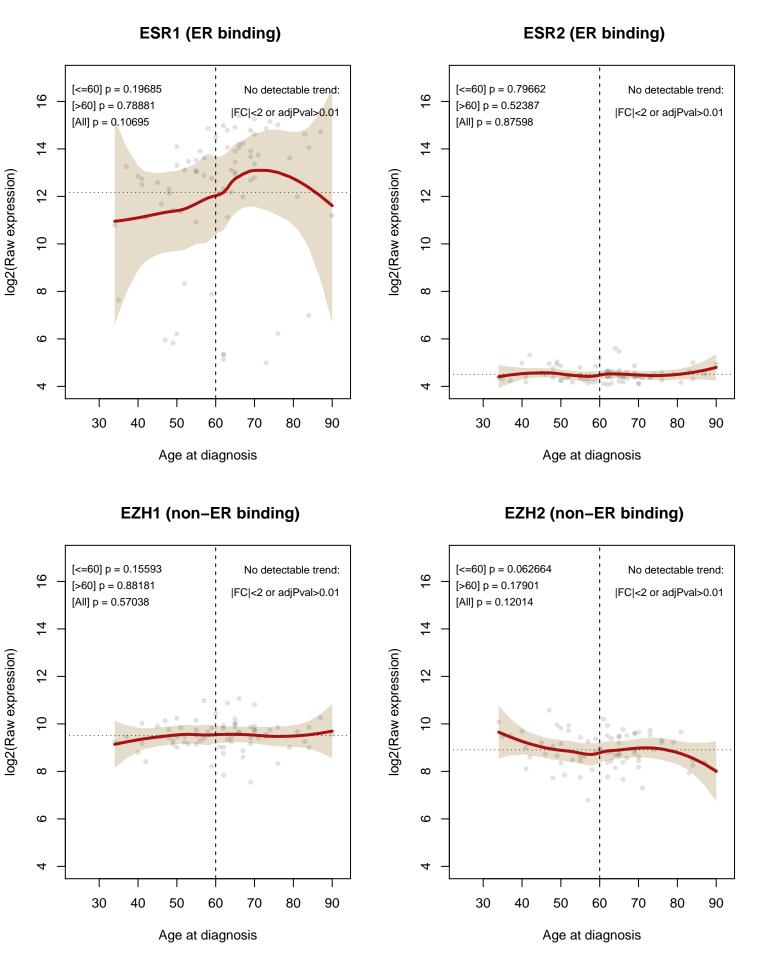


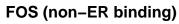
ERBB3 (non-ER binding)

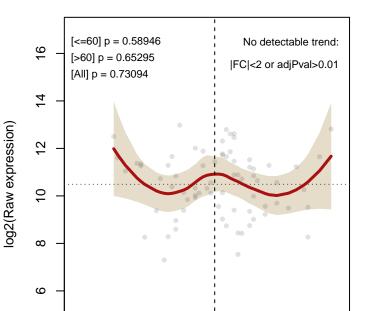
ERBB4 (ER binding)



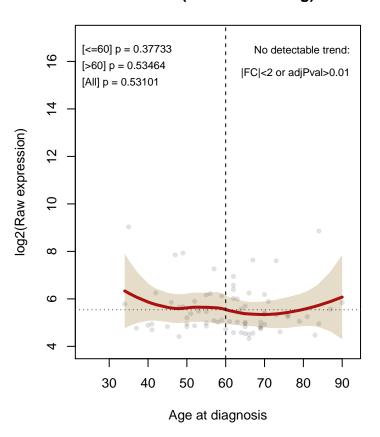






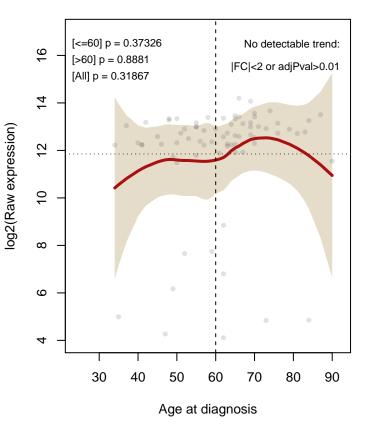


FOSL1 (non-ER binding)

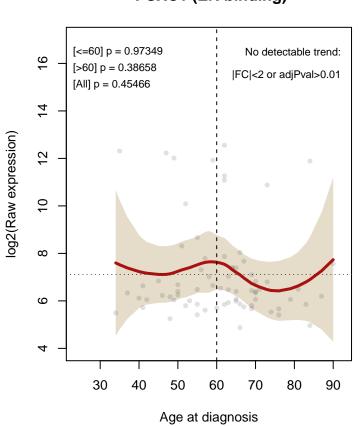


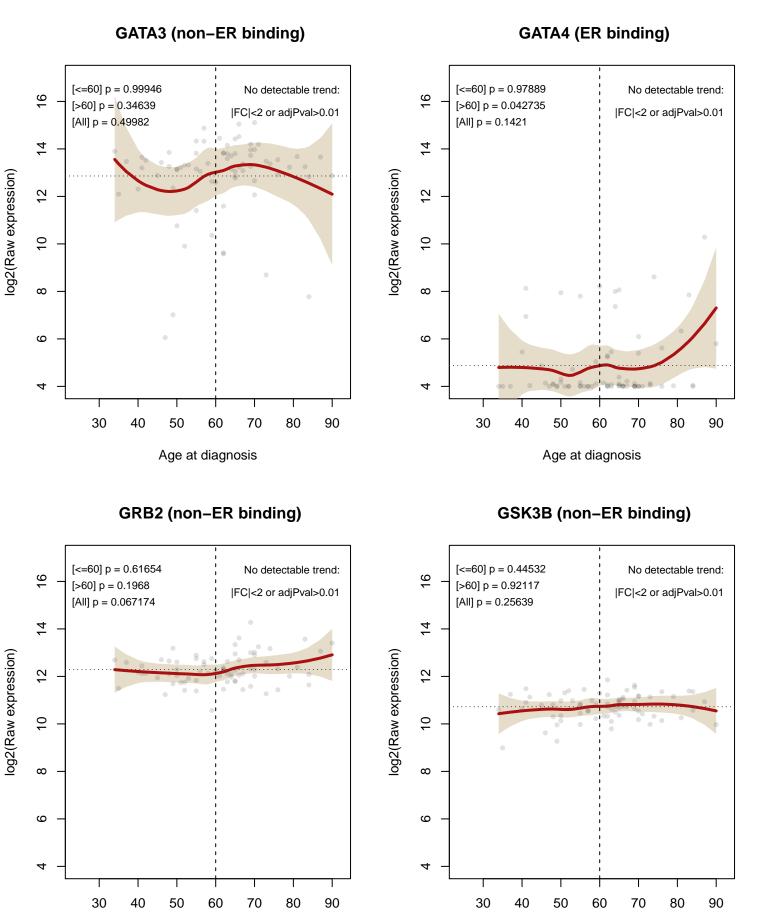
FOXA1 (ER binding)

Age at diagnosis



FOXC1 (ER binding)





Age at diagnosis

Age at diagnosis

H3F3A (non-ER binding) **HDAC1 (ER binding)** [<=60] p = 0.30564No detectable trend: [<=60] p = 0.33281No detectable trend: 16 16 [>60] p = 0.36842 [>60] p = 0.12877 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.09211[All] p = 0.708454 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 **HDAC2** (non-ER binding) **HES1 (non-ER binding)** [<=60] p = 0.015061No detectable trend: [<=60] p = 0.59343No detectable trend: 16 16 [>60] p = 0.94523 [>60] p = 0.48053 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.73913[All] p = 0.73344 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

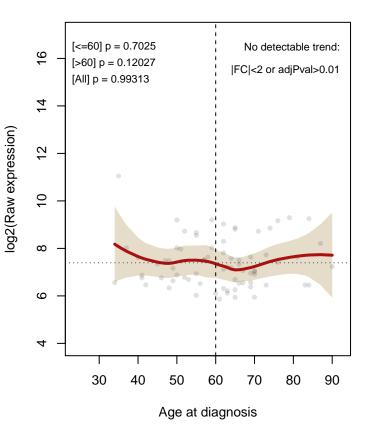
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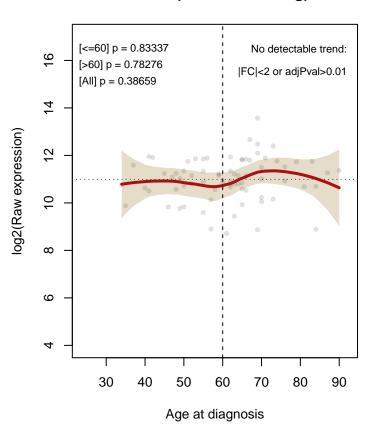
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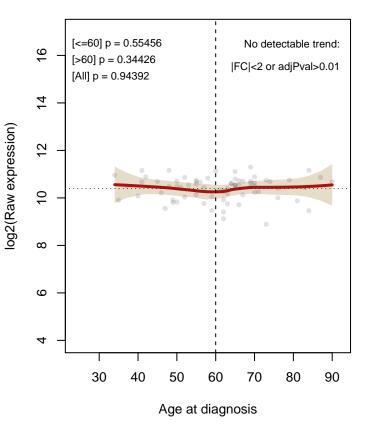
HIF1A (non-ER binding)

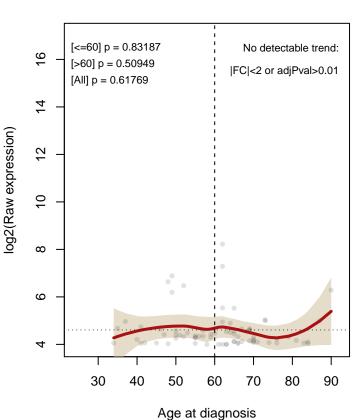




HIF1AN (non-ER binding)

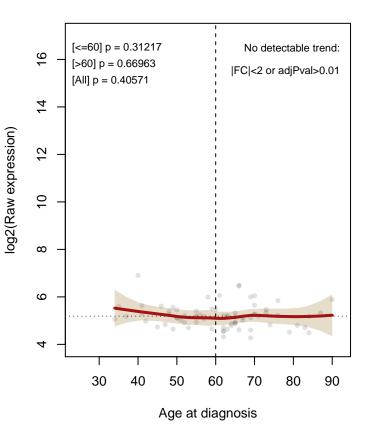
HIF3A (non-ER binding)

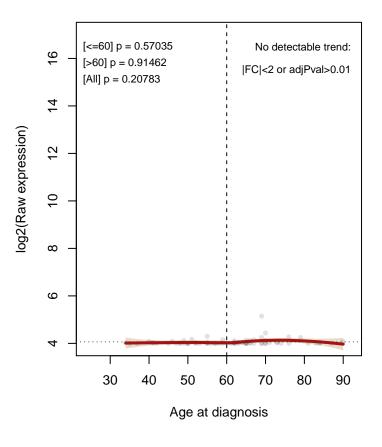




HNF1A (non-ER binding)

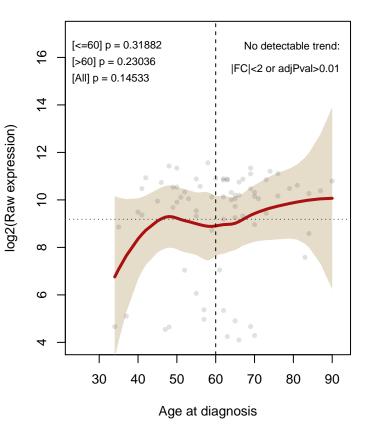
HNF1B (non-ER binding)

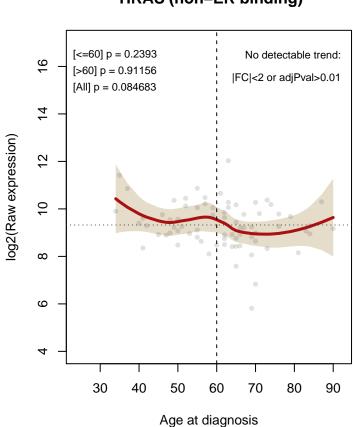


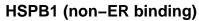


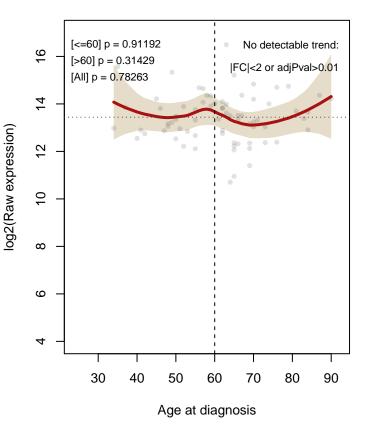
HOXC10 (non-ER binding)

HRAS (non-ER binding)

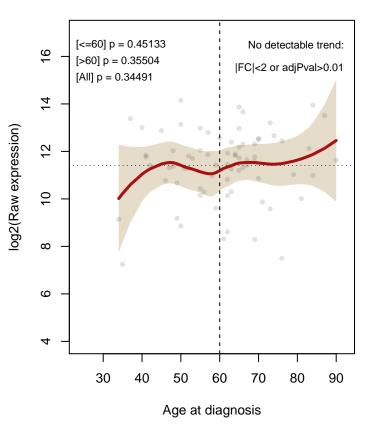








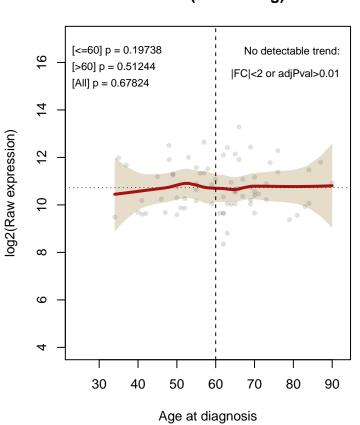
IGF1R (ER binding)



IGFBP2 (non-ER binding)

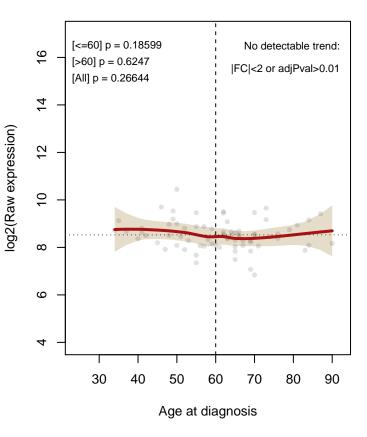
[<=60] p = 0.073253No detectable trend: 16 [>60] p = 0.49182 |FC|<2 or adjPval>0.01 [All] p = 0.579914 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90 Age at diagnosis

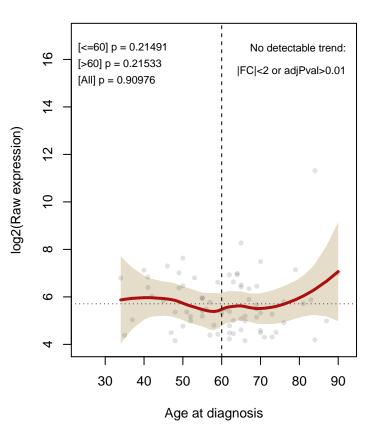
IKBKB (ER binding)





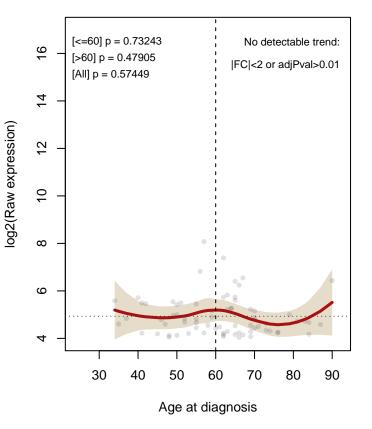
IL2RA (non-ER binding)

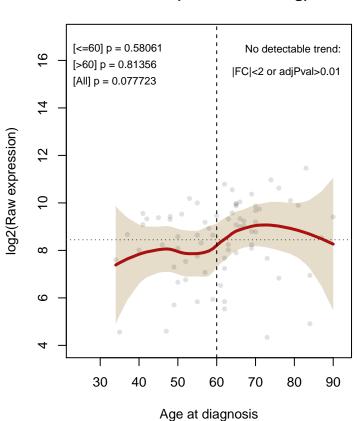


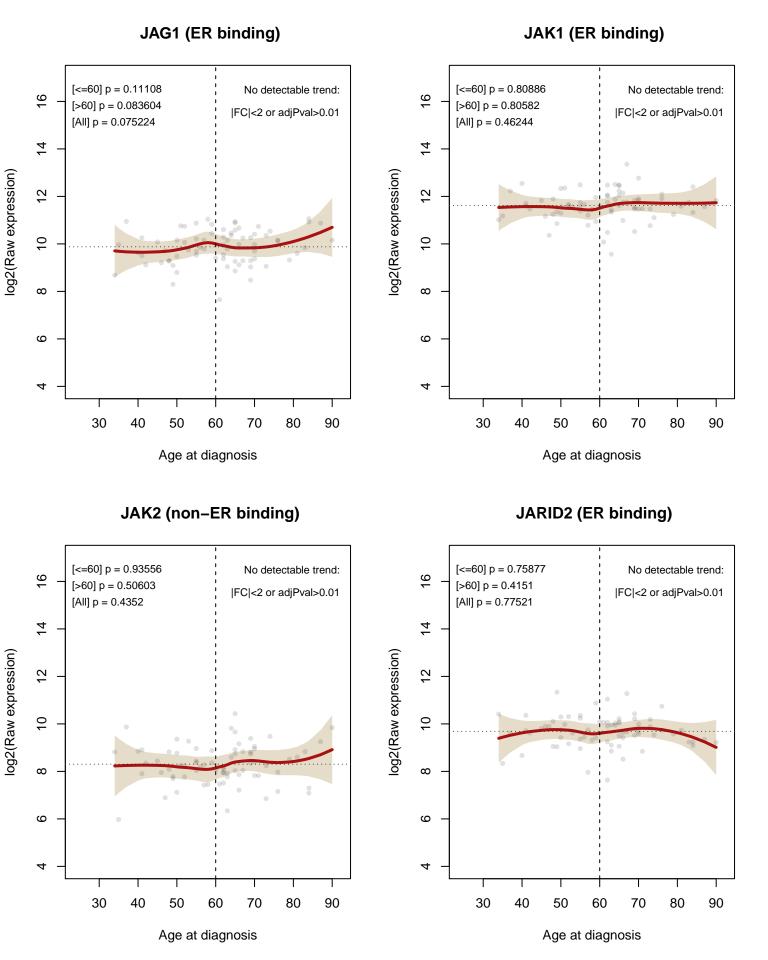


IL6 (non-ER binding)

INPP4B (non-ER binding)

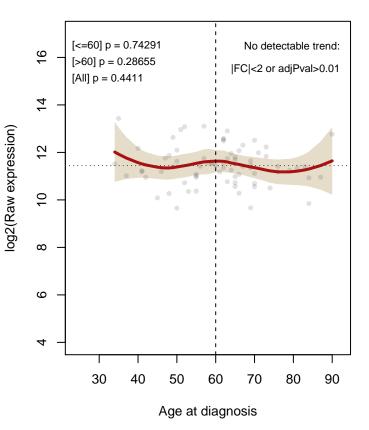


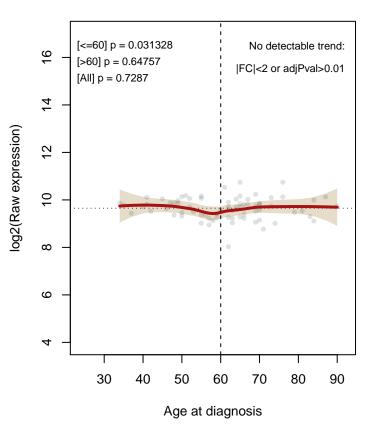






KDM2B (non-ER binding)



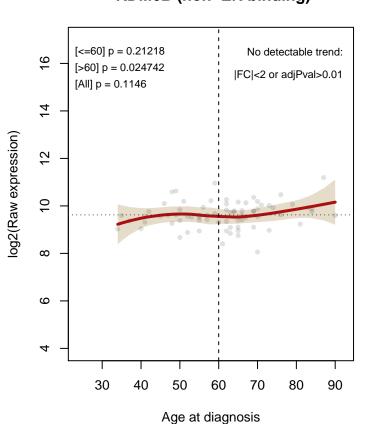


KDM6A (non-ER binding)

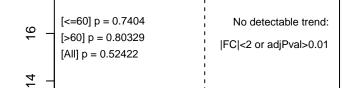
[<=60] p = 0.74154No detectable trend: 16 [>60] p = 0.29285 |FC|<2 or adjPval>0.01 [All] p = 0.114874 log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

Age at diagnosis

KDM6B (non-ER binding)





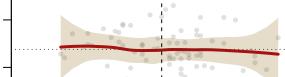


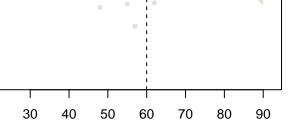


log2(Raw expression)

ω

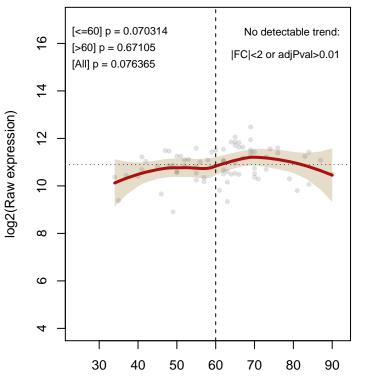
9





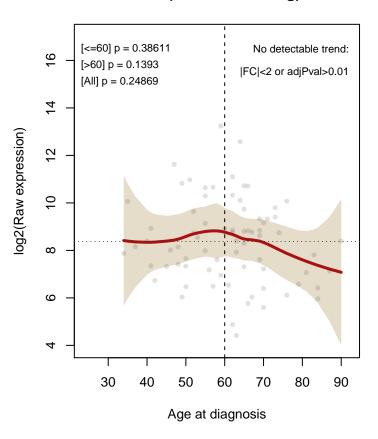
KMT2C (non-ER binding)

Age at diagnosis

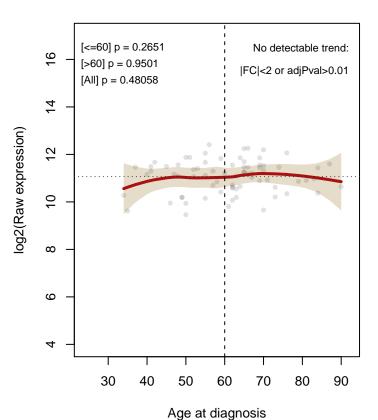


Age at diagnosis

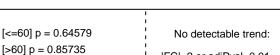
KIT (non-ER binding)

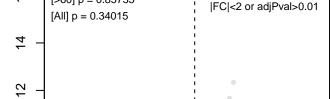


KMT2D (non-ER binding)



KRAS (non-ER binding)





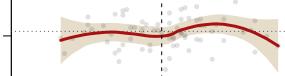
16

19

30

40

log2(Raw expression)





Age at diagnosis

50

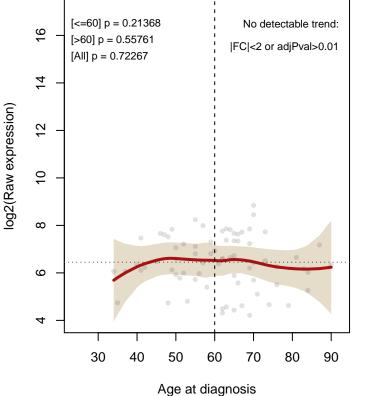
L3MBTL1 (non-ER binding)

60

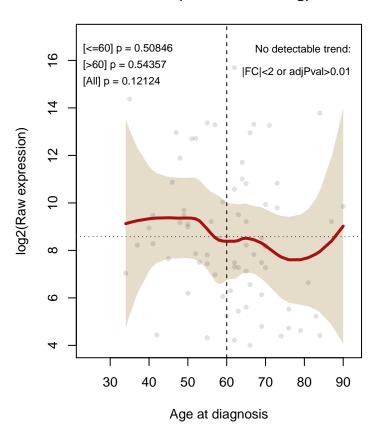
70

80

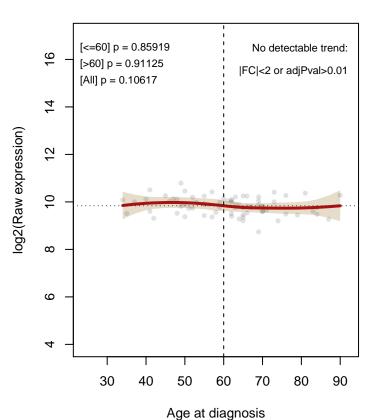
90



KRT5 (non-ER binding)

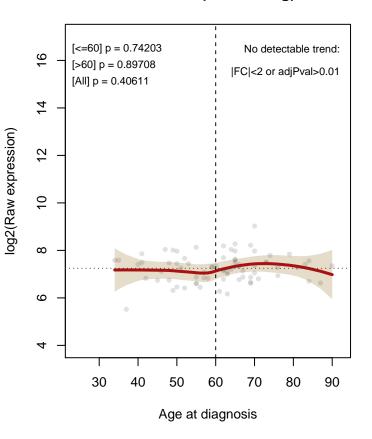


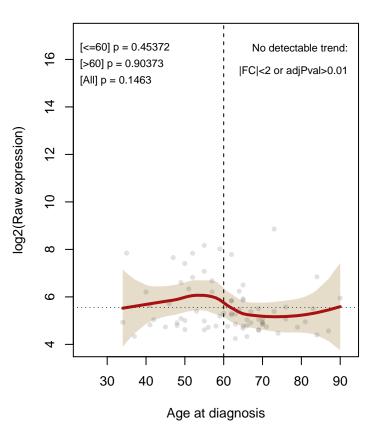
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

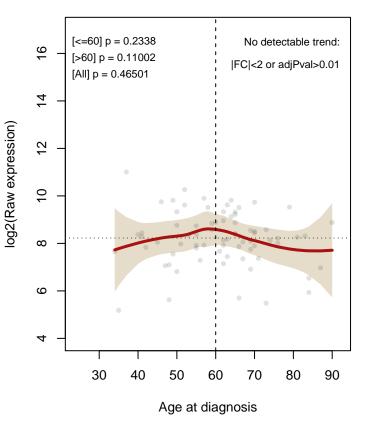
L3MBTL4 (non-ER binding)

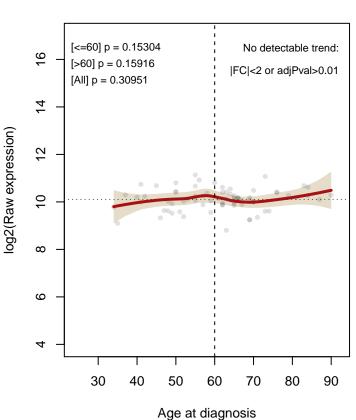




LEF1 (non-ER binding)

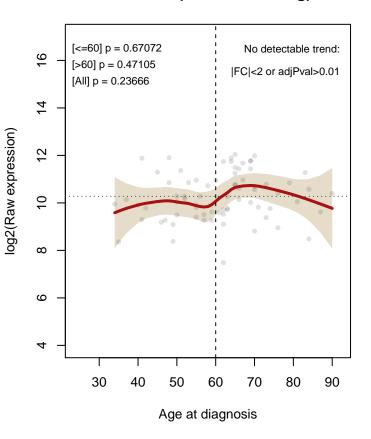
MAP2K1 (non-ER binding)

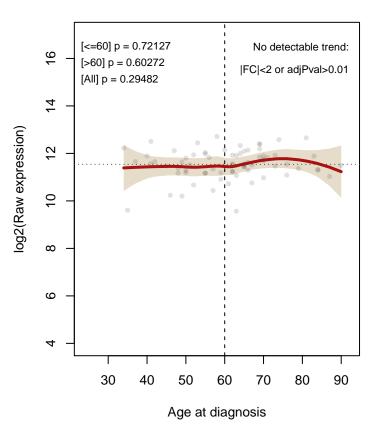




MAP3K1 (non-ER binding)

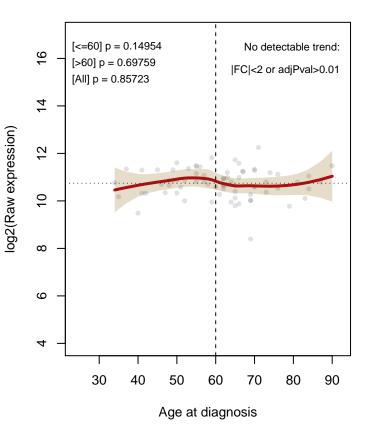
MAPK1 (non-ER binding)

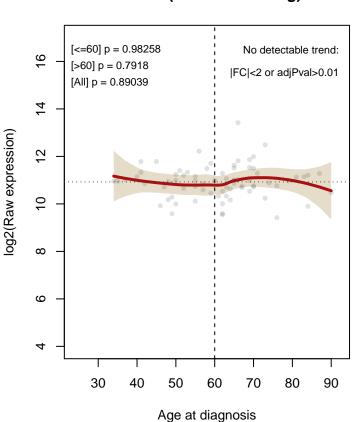




MAPK3 (non-ER binding)

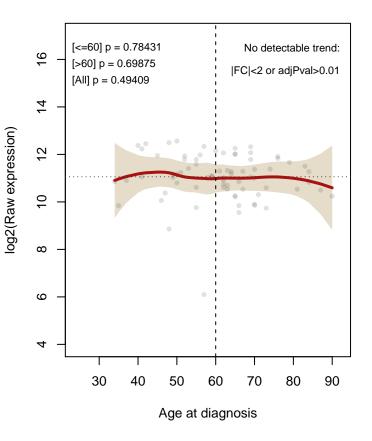
MDM2 (non-ER binding)

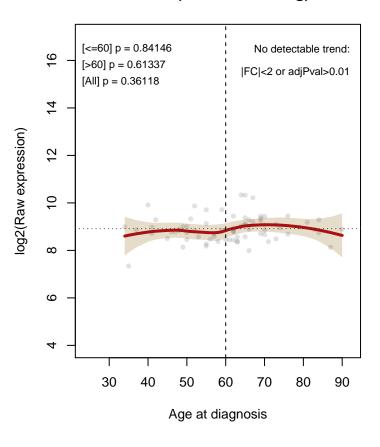






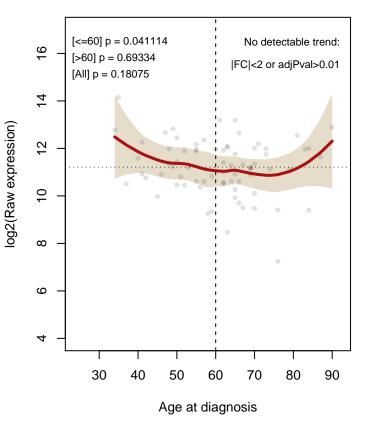
MTF2 (non-ER binding)

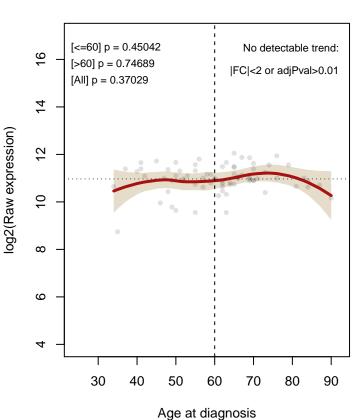


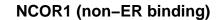


MYC (non-ER binding)

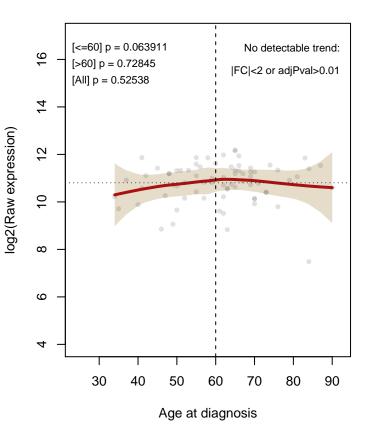
NCOA6 (non-ER binding)

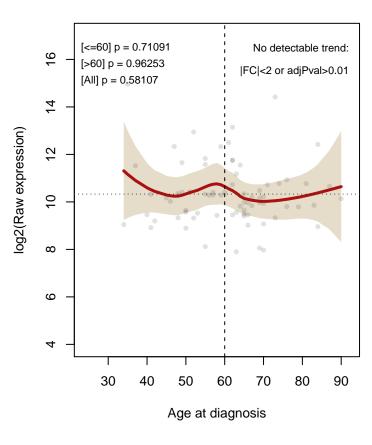






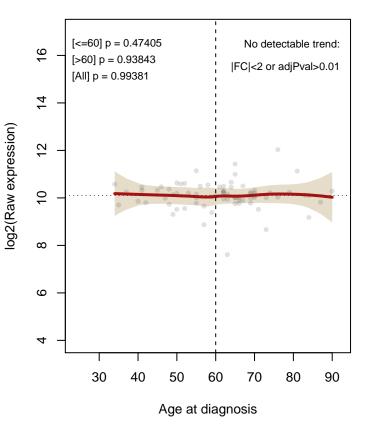
NES (non-ER binding)

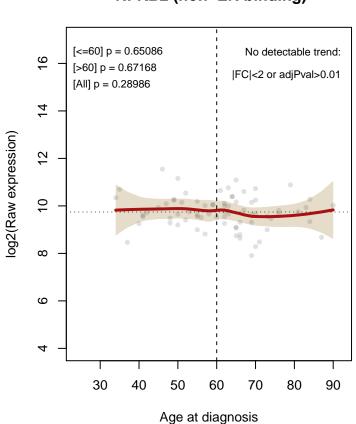




NFKB1 (non-ER binding)

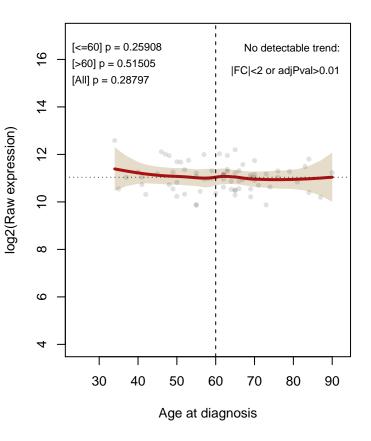
NFKB2 (non-ER binding)

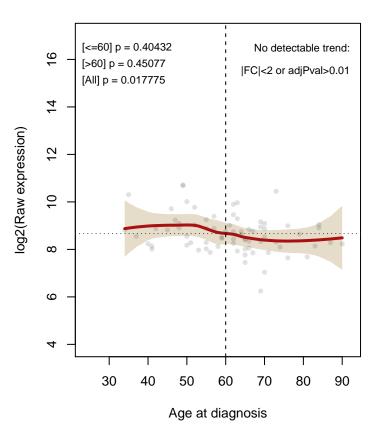




NFKBIA (non-ER binding)

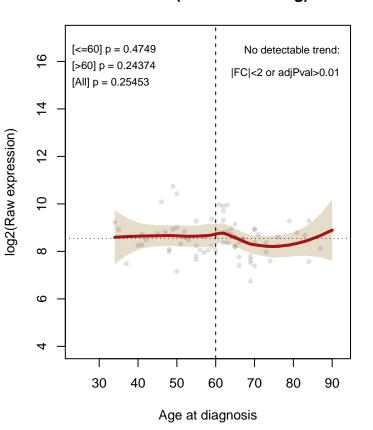
NFKBIB (non-ER binding)

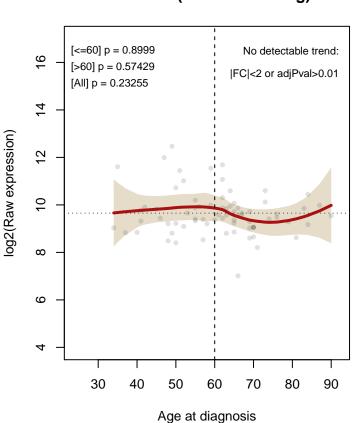




NFKBIE (non-ER binding)

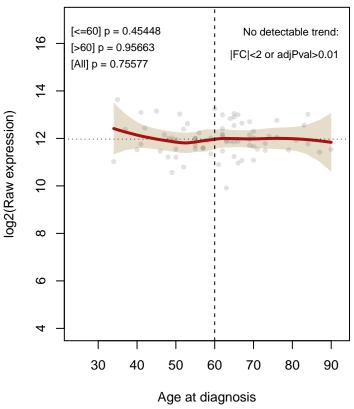
NOTCH1 (non-ER binding)

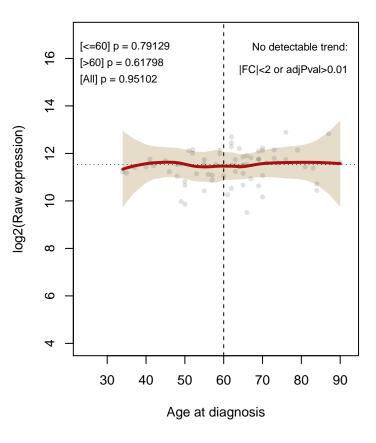




NOTCH2 (non-ER binding)

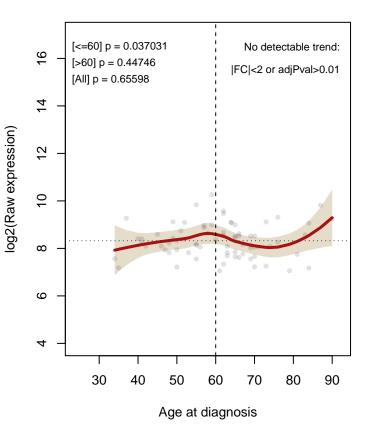
NOTCH3 (non-ER binding)

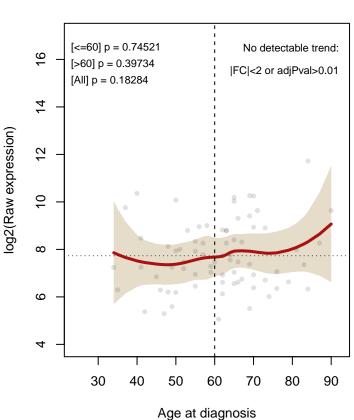


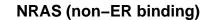


NOTCH4 (non-ER binding)

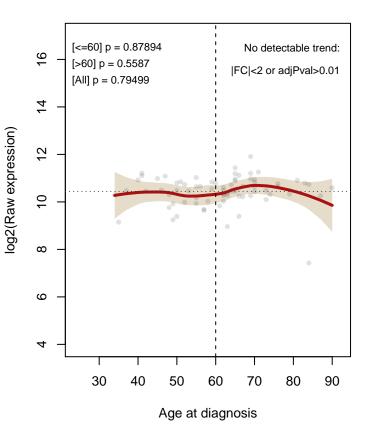
NR4A2 (non-ER binding)

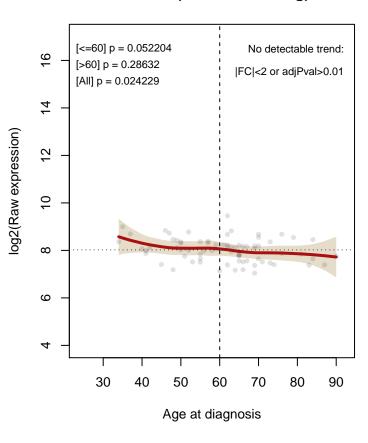






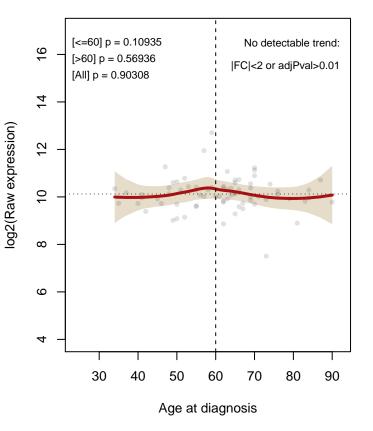
PCGF1 (non-ER binding)

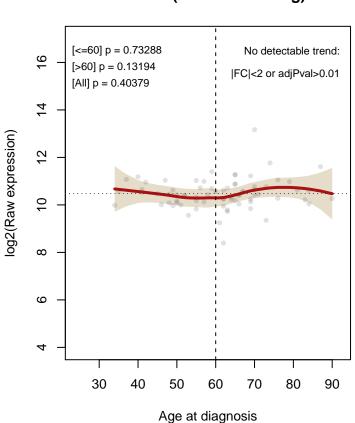




PCGF2 (non-ER binding)

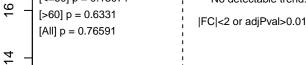
PCGF3 (non-ER binding)

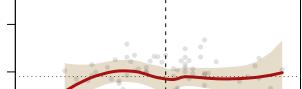






[<=60] p = 0.13071 No detectable trend:

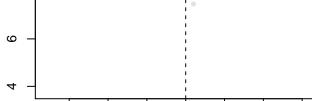




19 ω

log2(Raw expression)

12



50

30

40

Age at diagnosis

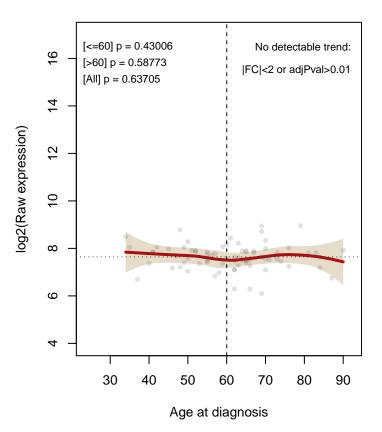
60

70

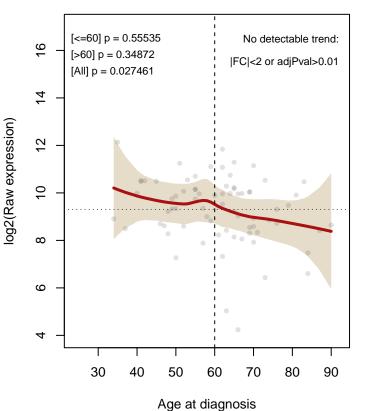
80

90

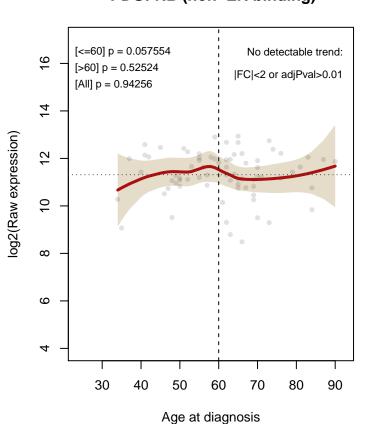
PCGF6 (non-ER binding)

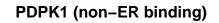


PDGFRA (non-ER binding)

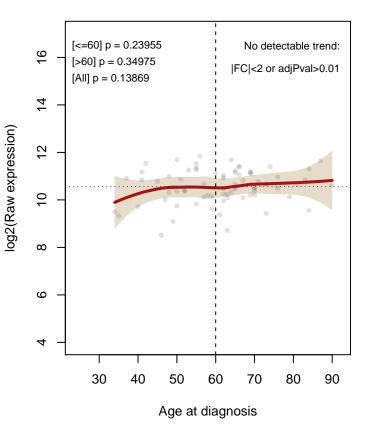


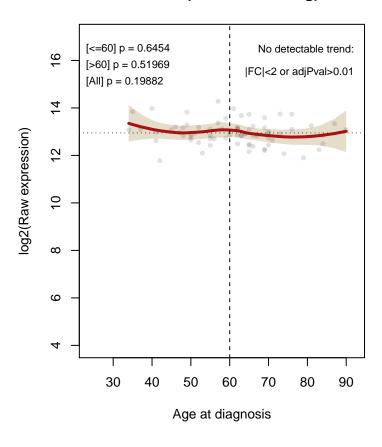
PDGFRB (non-ER binding)





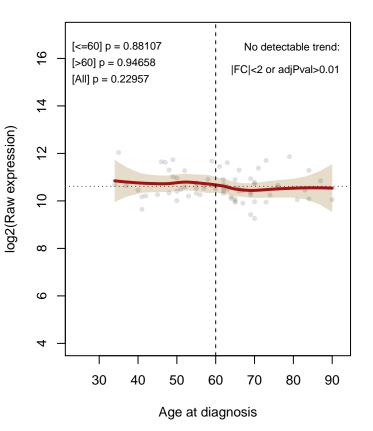
PEBP1 (non-ER binding)

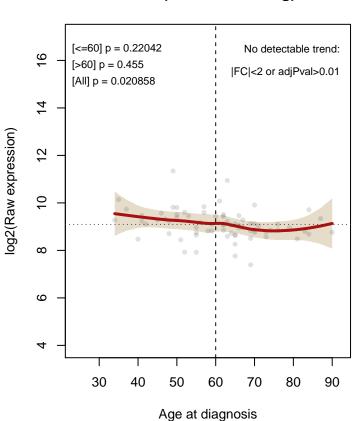


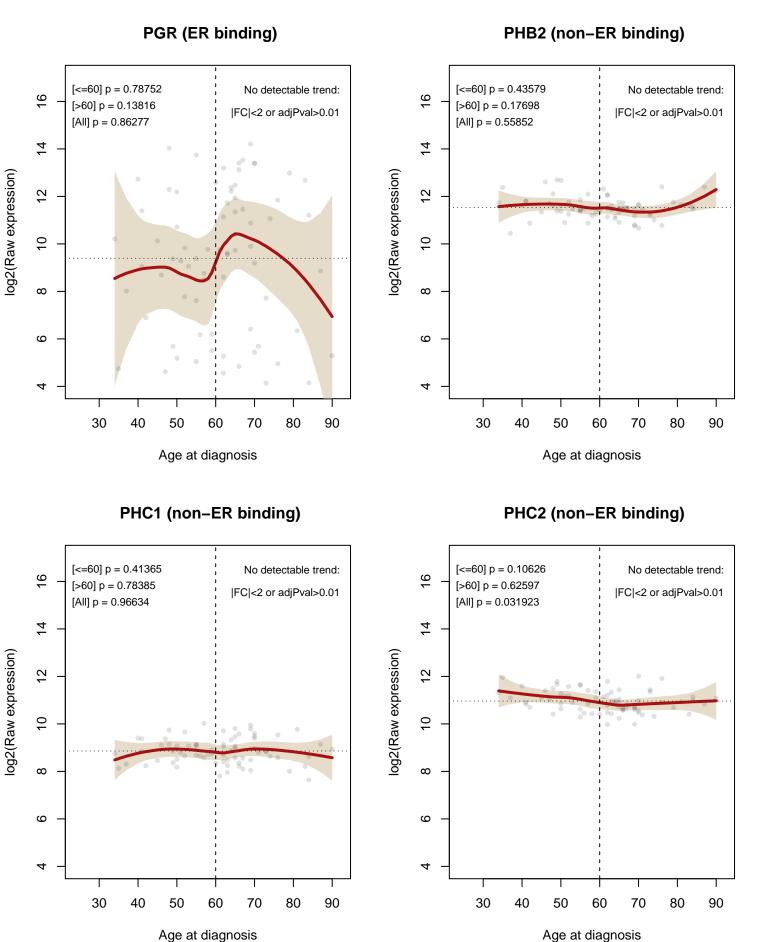


PELP1 (non-ER binding)

PGP (non-ER binding)

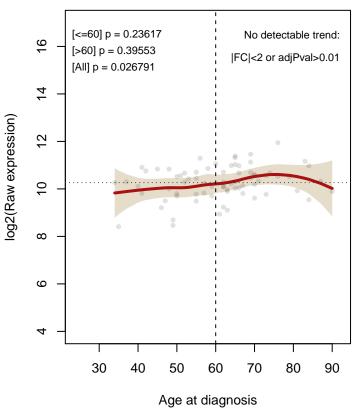


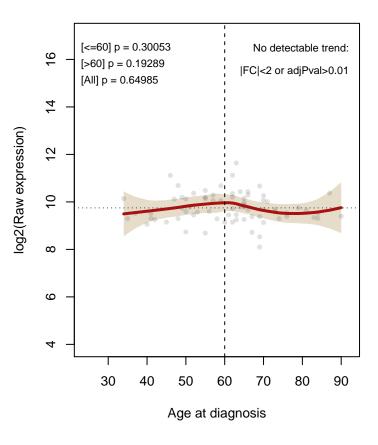






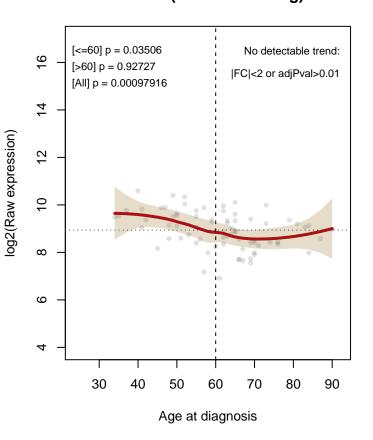
PHF1 (non-ER binding)

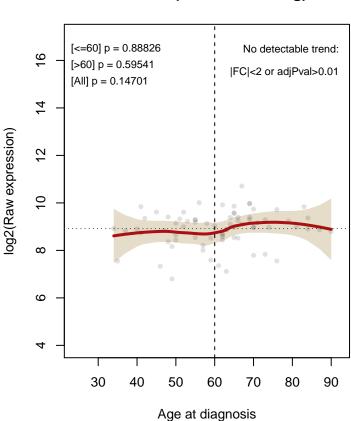




PHF19 (non-ER binding)

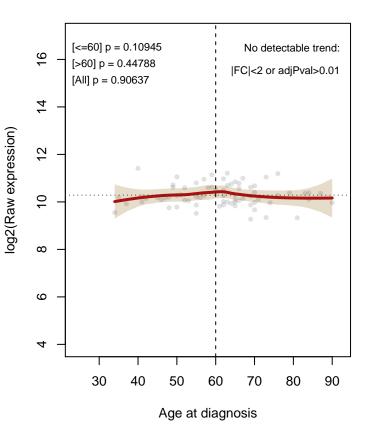
PIK3CA (non-ER binding)

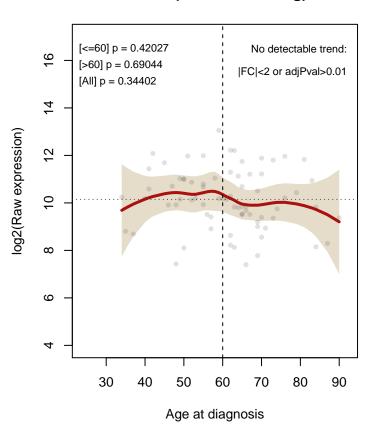






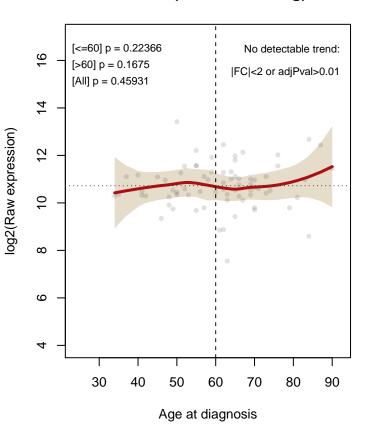
PLAU (non-ER binding)

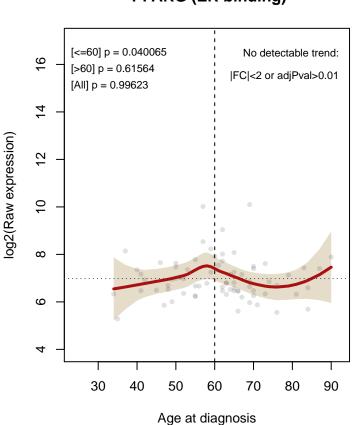


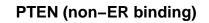


PODXL (non-ER binding)

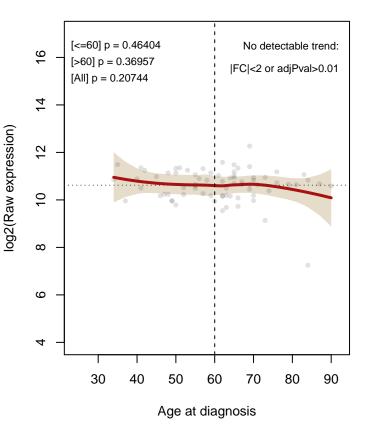
PPARG (ER binding)

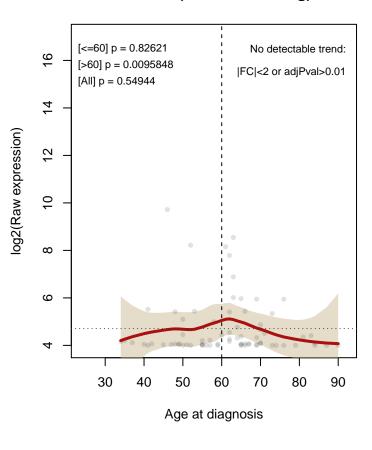






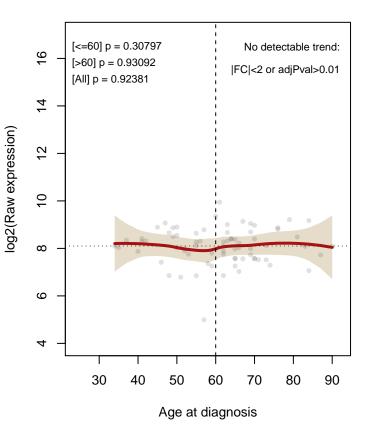
PYDC1 (non-ER binding)

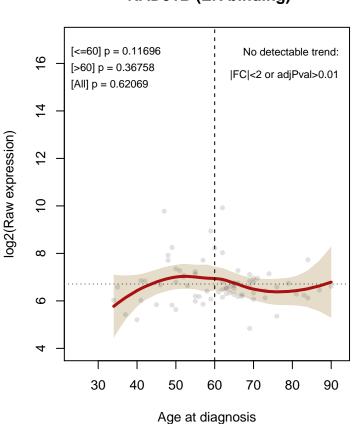




RAD51 (non-ER binding)

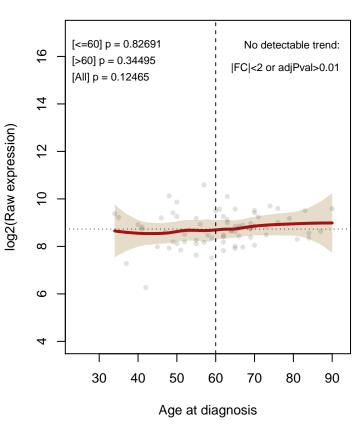
RAD51B (ER binding)

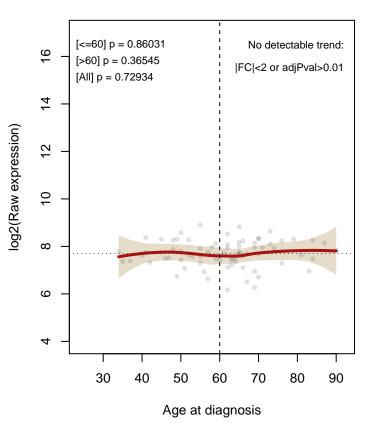




RAD51C (non-ER binding)

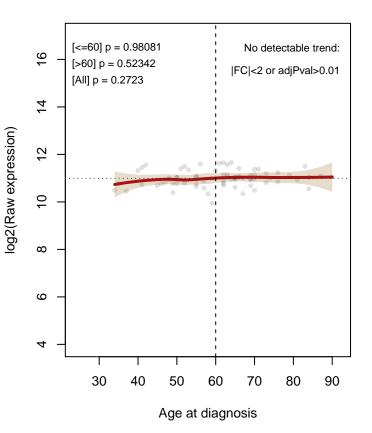
R binding) RAD51D (non–ER binding)

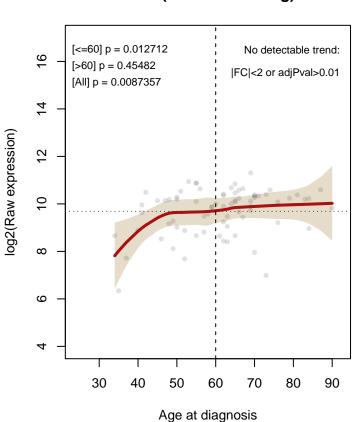


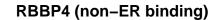


RAF1 (non-ER binding)

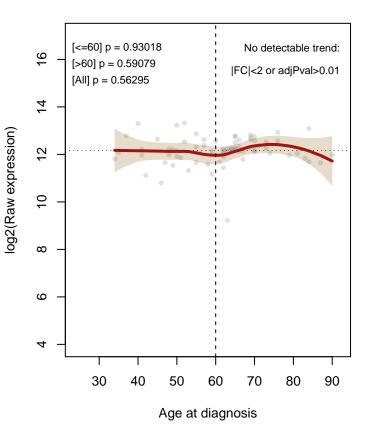
RB1 (non-ER binding)

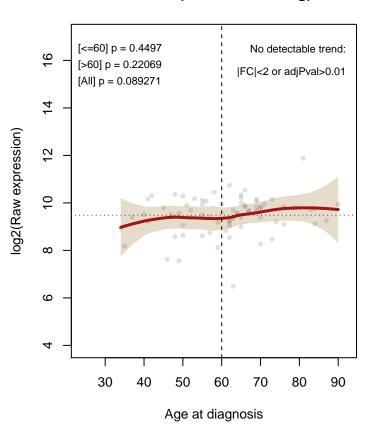






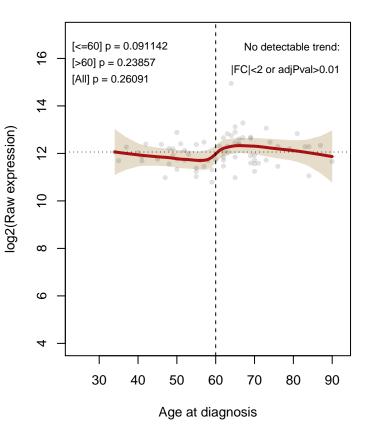
RBBP5 (non-ER binding)

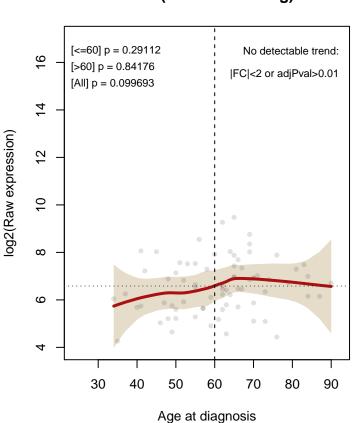


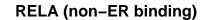


RBBP7 (non-ER binding)

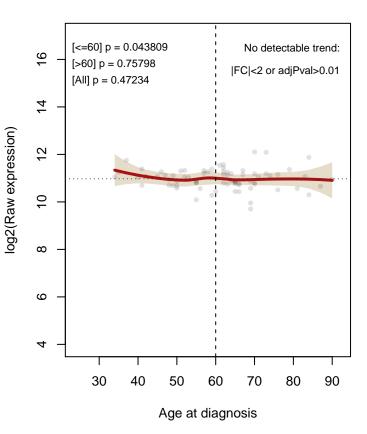
REL (non-ER binding)

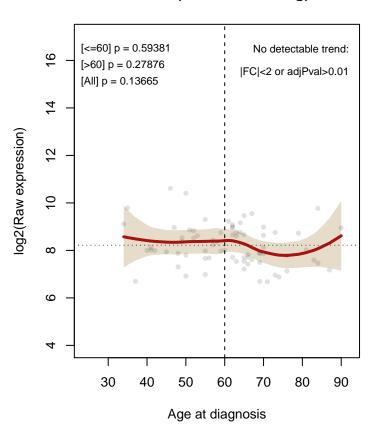






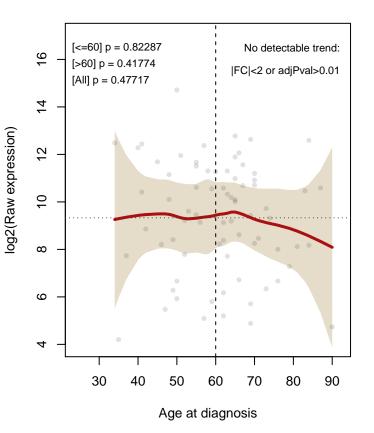
RELB (non-ER binding)

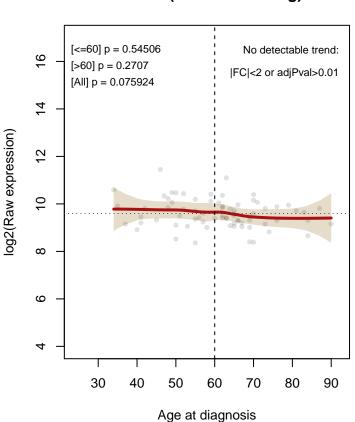




RET (ER binding)

RING1 (non-ER binding)





RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.42008No detectable trend: [<=60] p = 0.91441No detectable trend: 16 16 [>60] p = 0.54956 [>60] p = 0.67537 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.79808[All] p = 0.957114 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.18928No detectable trend: [<=60] p = 0.0093796No detectable trend: 16 16 [>60] p = 0.37036 [>60] p = 0.13021 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.030723[AII] p = 0.00018264 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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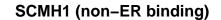
60

Age at diagnosis

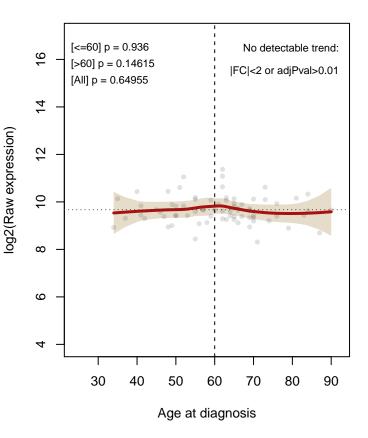
70

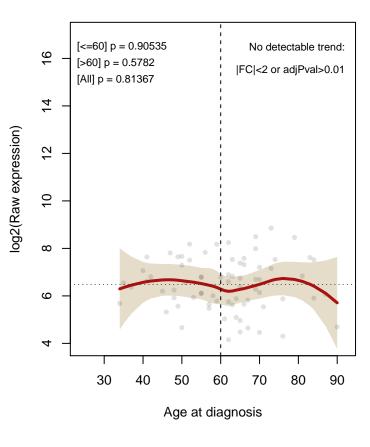
80

90



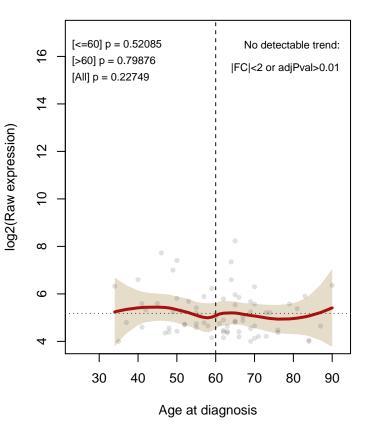
SCML2 (non-ER binding)

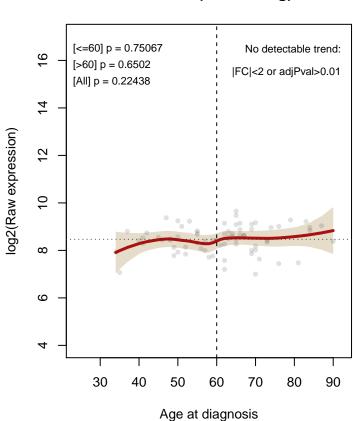




SCML4 (non-ER binding)

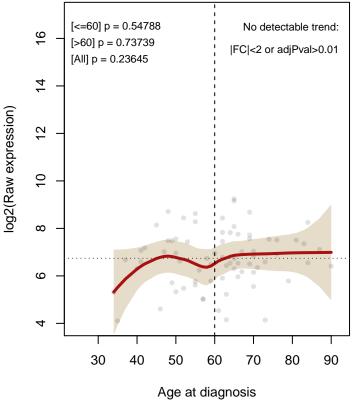
SFMBT1 (ER binding)

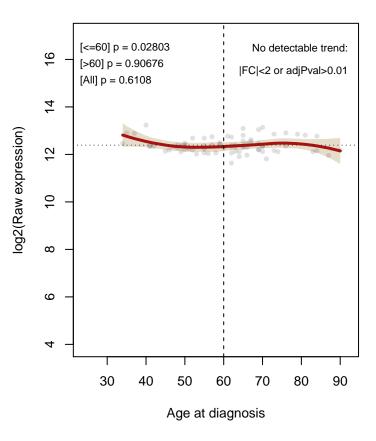




SFMBT2 (ER binding)

SFPQ (non-ER binding)



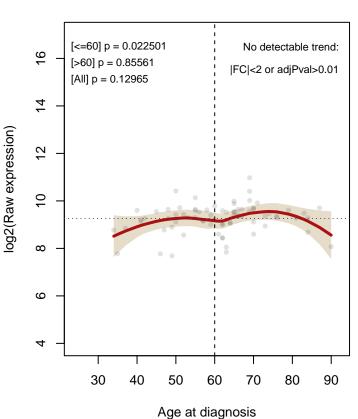


SHC1 (non-ER binding)

[<=60] p = 0.20758No detectable trend: 16 [>60] p = 0.29269 |FC|<2 or adjPval>0.01 [All] p = 0.0140334 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

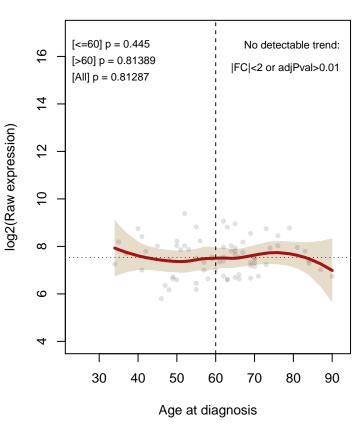
Age at diagnosis

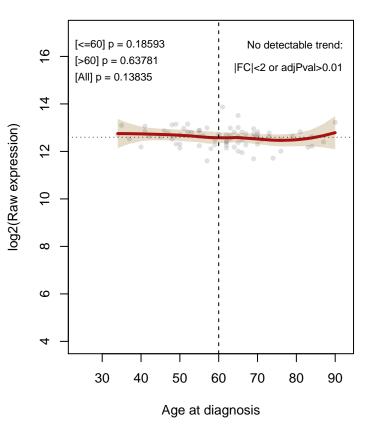
SIRT1 (non-ER binding)



SKP2 (non-ER binding)

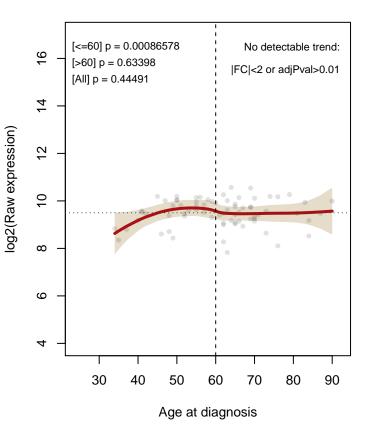
binding) SLC25A3 (non–ER binding)

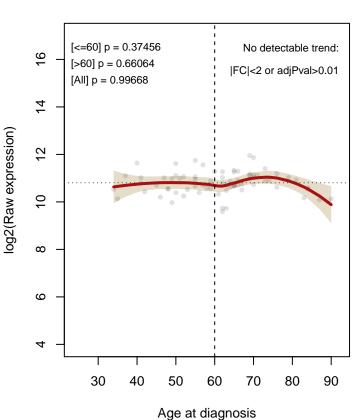




SMAD1 (non-ER binding)

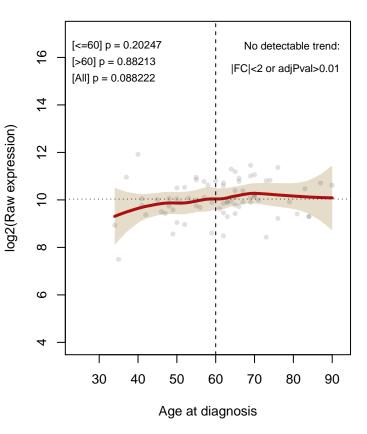
SMAD2 (non-ER binding)

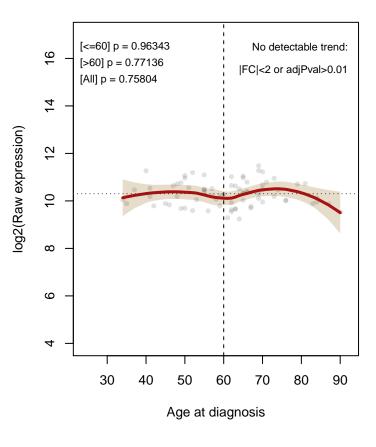






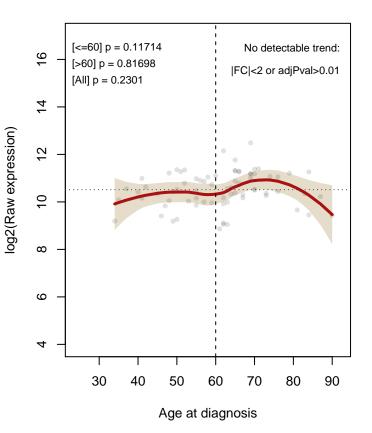
SMAD4 (non-ER binding)

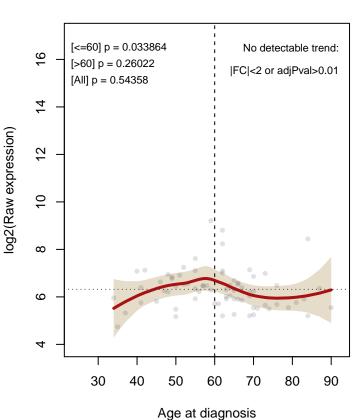




SMAD5 (non-ER binding)

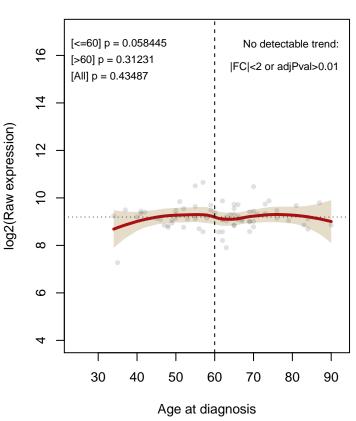
SMAD6 (non-ER binding)

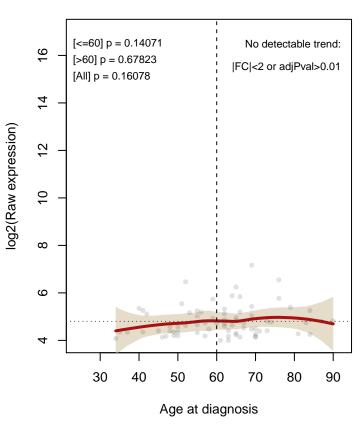




SMAD7 (non-ER binding)

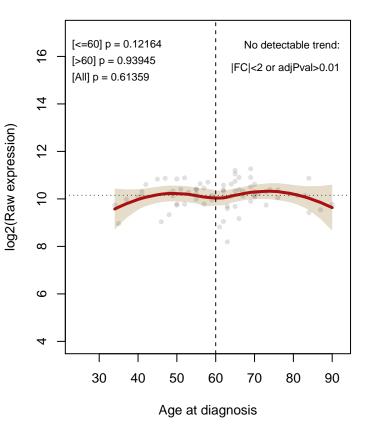
SMAD9 (non-ER binding)

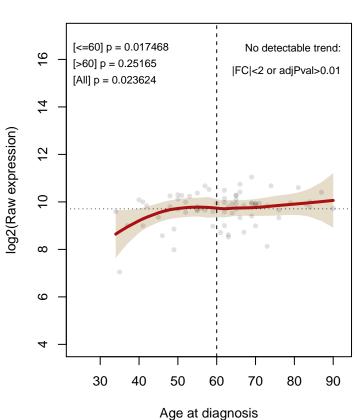


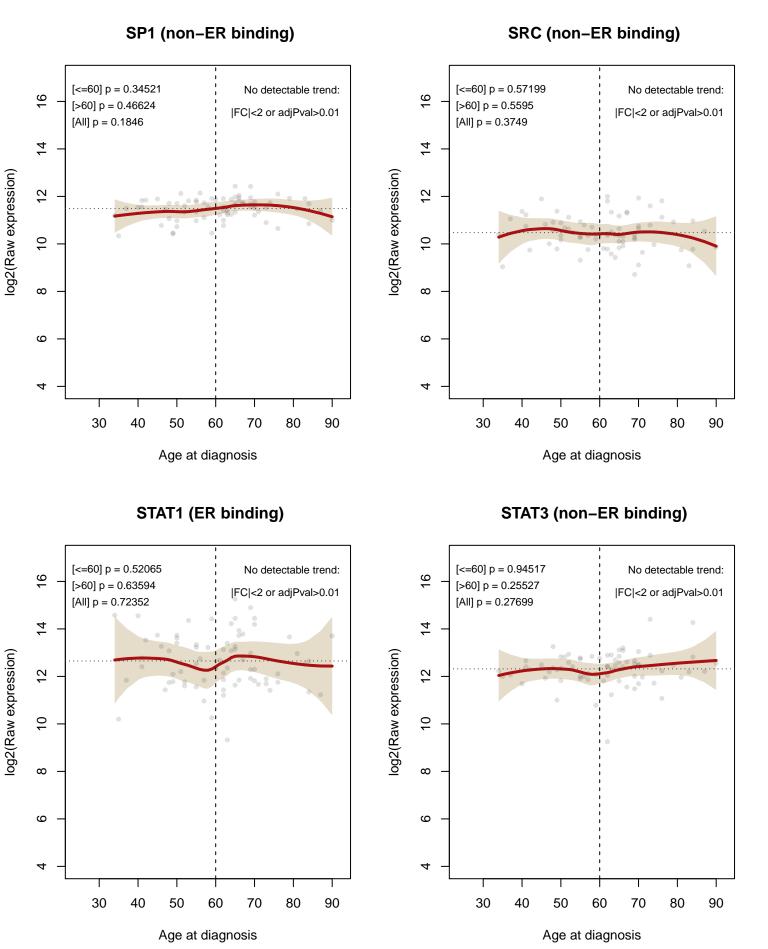


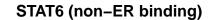
SOS1 (non-ER binding)

SOS2 (non-ER binding)

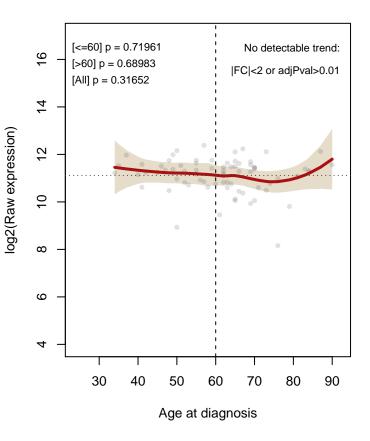


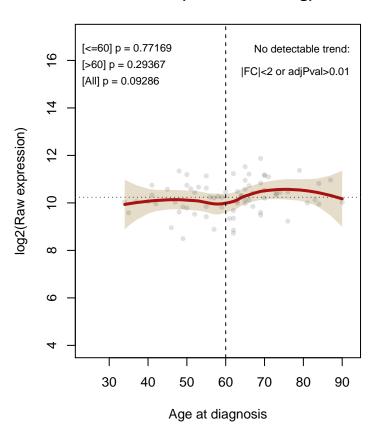






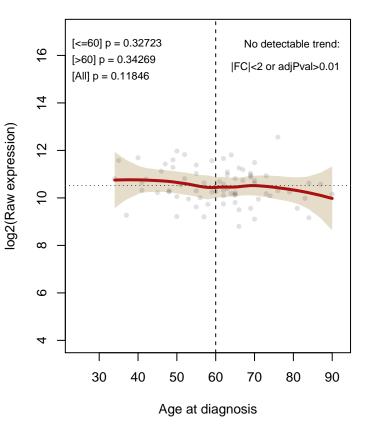
SUZ12 (non-ER binding)

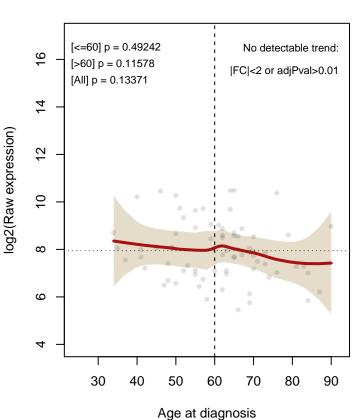




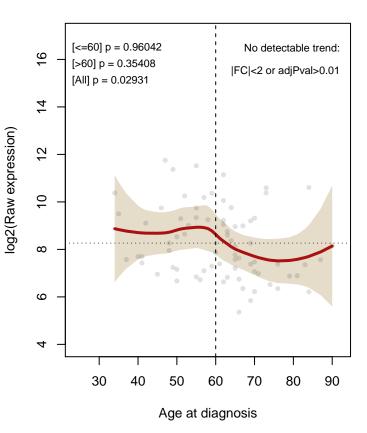
TCF3 (non-ER binding)

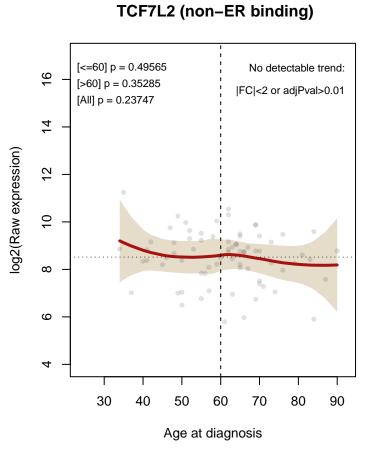
TCF7 (non-ER binding)





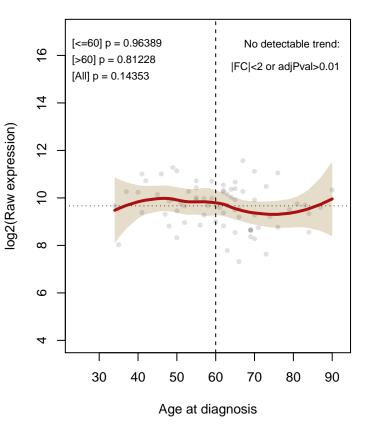


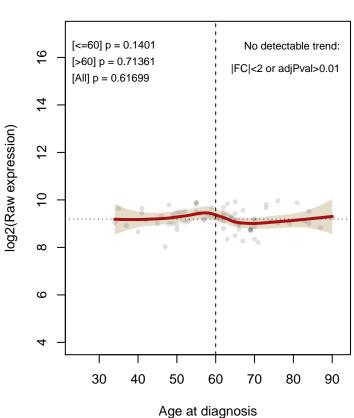


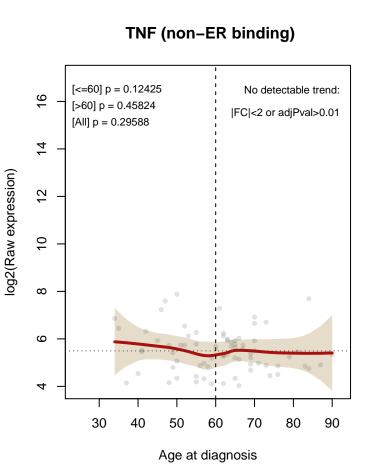


TGFB1 (non-ER binding)

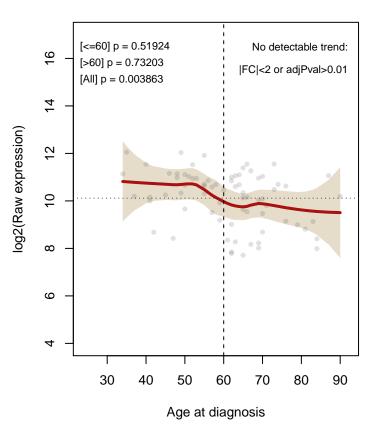
TK2 (non-ER binding)



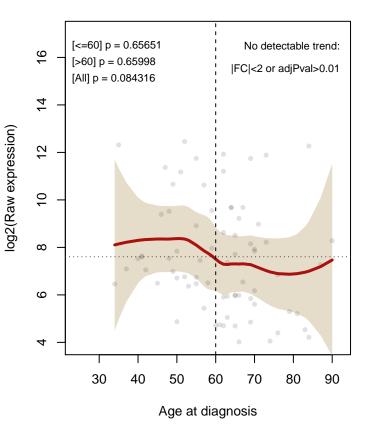




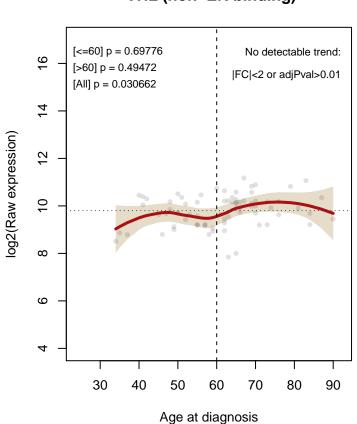
TP53 (non-ER binding)



TRIM29 (non-ER binding)



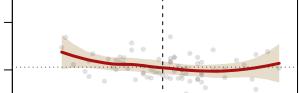
VHL (non-ER binding)

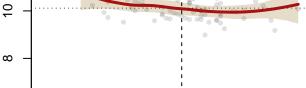


WDR5 (non-ER binding)









log2(Raw expression)

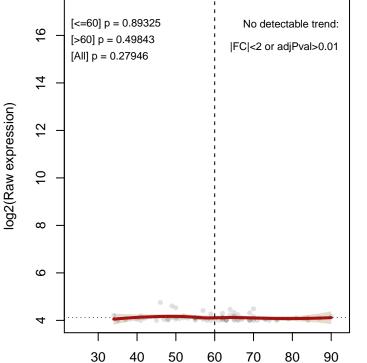
12

9

30 40 50 60 70 80 90

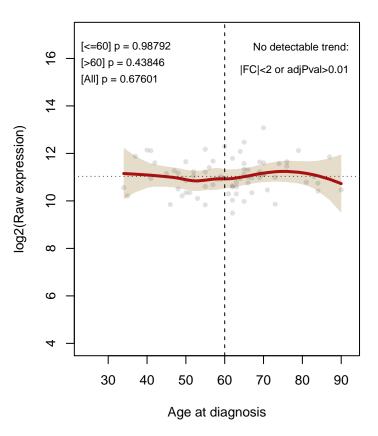
WNT1 (non-ER binding)

Age at diagnosis

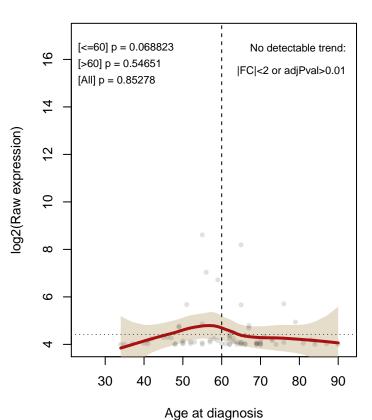


Age at diagnosis

WHSC1 (non-ER binding)

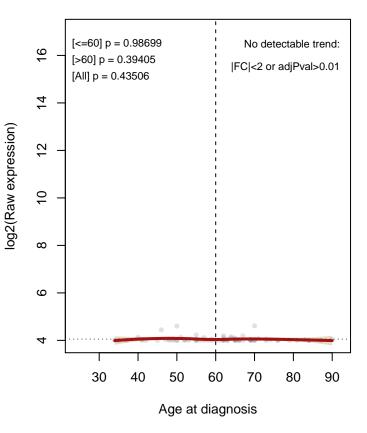


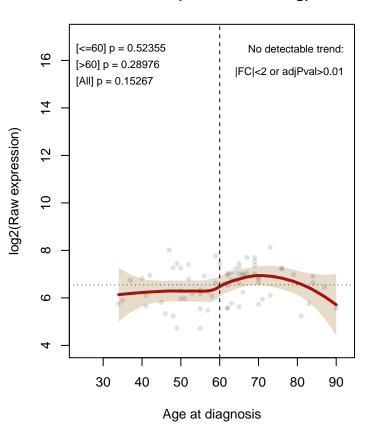
WNT3A (non-ER binding)





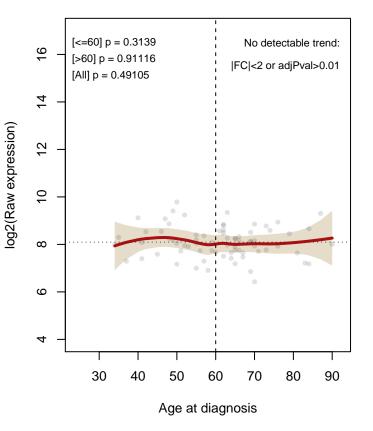
XRCC2 (non-ER binding)

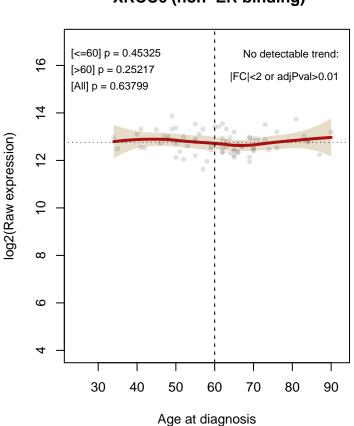




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

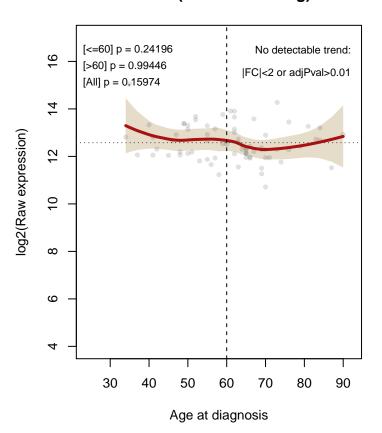




YAF2 (non-ER binding)

[<=60] p = 0.87198No detectable trend: 16 [>60] p = 0.40464|FC|<2 or adjPval>0.01 [All] p = 0.921334 log2(Raw expression) 12 10 ω 9 4 30 40 50 60 70 80 90

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

