

ARNT (ER binding) ASH2L (non-ER binding) [<=60] p = 0.15143No detectable trend: [<=60] p = 0.49903No detectable trend: 16 16 [>60] p = 0.55827 [>60] p = 0.84892 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.29726[All] p = 0.819834 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 **ASXL1** (non-ER binding) ASXL2 (non-ER binding) [<=60] p = 0.36022No detectable trend: [<=60] p = 0.97468No detectable trend: 16 16 [>60] p = 0.73444[>60] p = 0.39041 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.026652[All] p = 0.815124 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞ 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

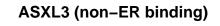
60

Age at diagnosis

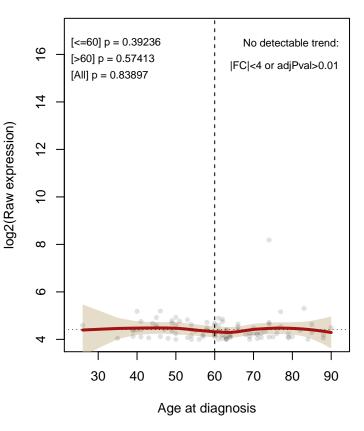
70

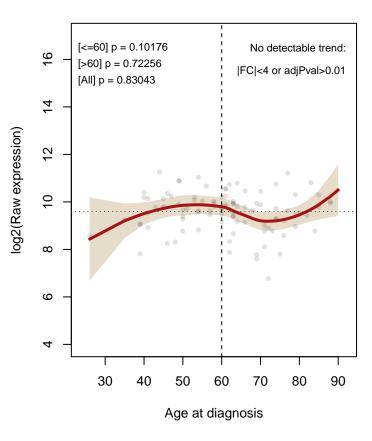
80

90



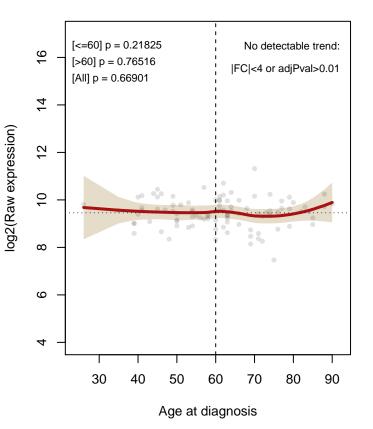
ATM (non-ER binding)

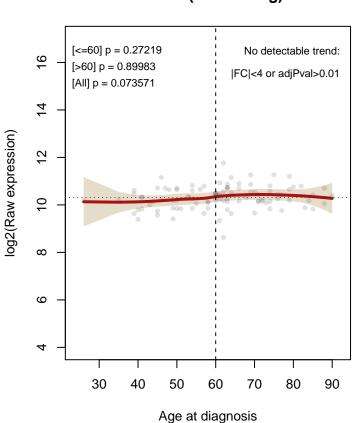




ATR (non-ER binding)

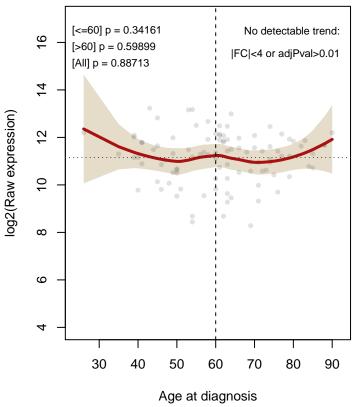
AXIN1 (ER binding)

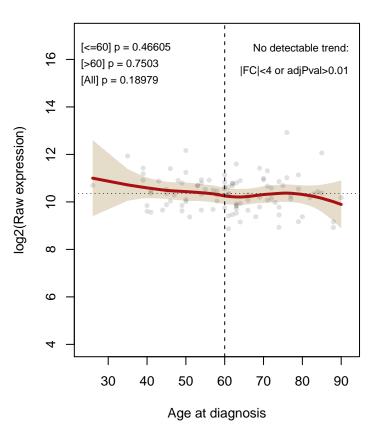






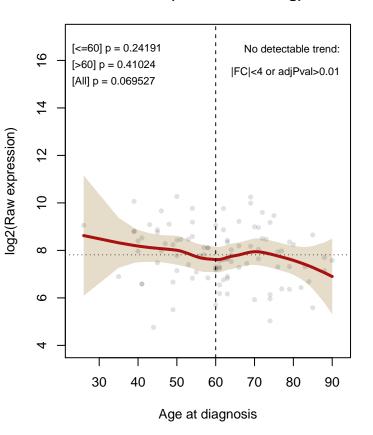
BCL3 (non-ER binding)

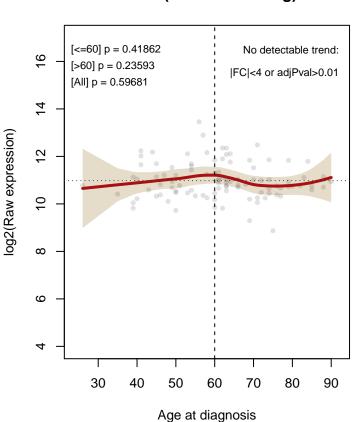




BIRC5 (non-ER binding)

BMI1 (non-ER binding)





BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.18821No detectable trend: [<=60] p = 0.54307No detectable trend: 16 16 [>60] p = 0.14052 [>60] p = 0.49657 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.047826[All] p = 0.720194 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.74092No detectable trend: [<=60] p = 0.85373No detectable trend: 16 16 [>60] p = 0.75273 [>60] p = 0.86678 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.61333[AII] p = 0.909384 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

60

Age at diagnosis

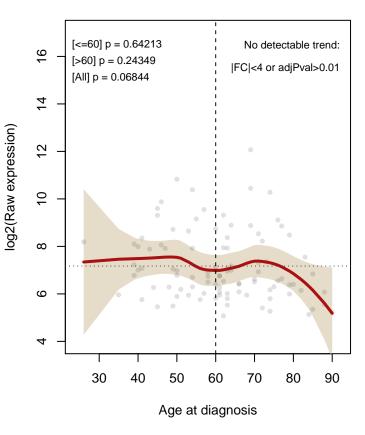
70

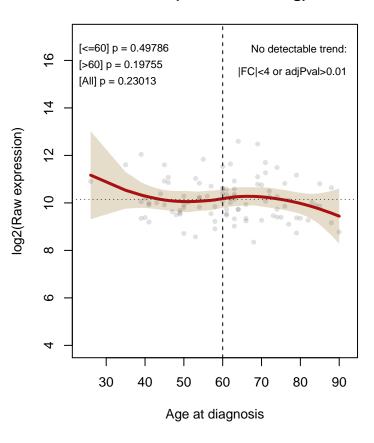
80

90



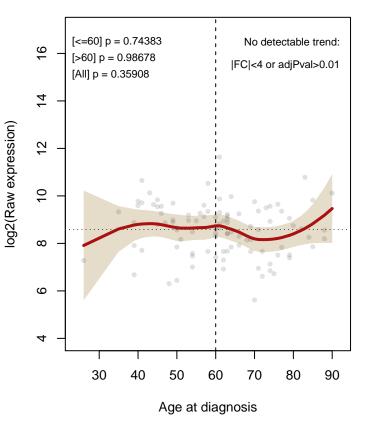
CBX4 (non-ER binding)

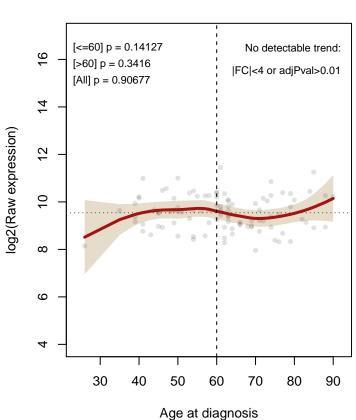


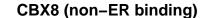


CBX6 (non-ER binding)

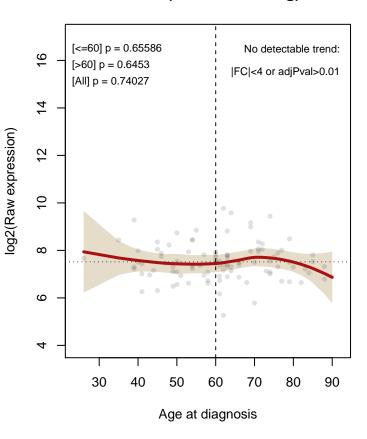
CBX7 (non-ER binding)

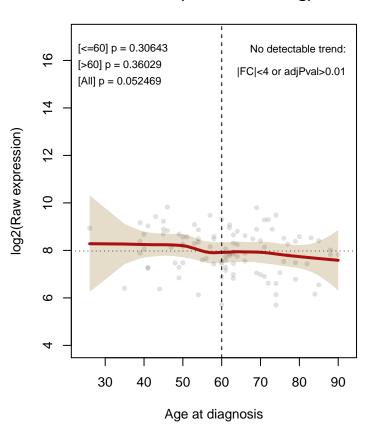






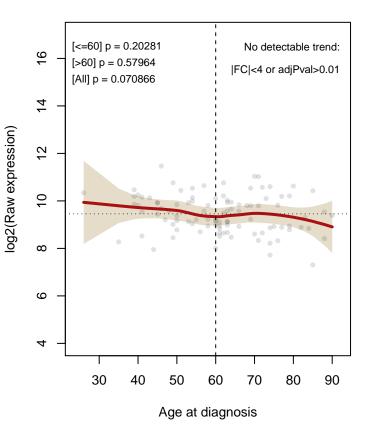
CCNA2 (non-ER binding)

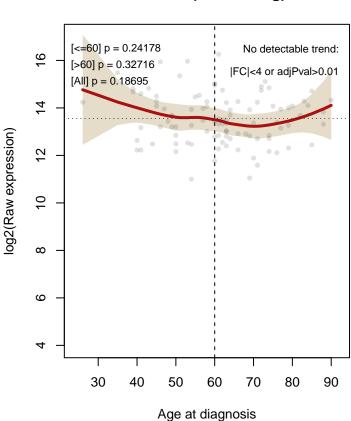


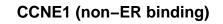


CCNB1 (non-ER binding)

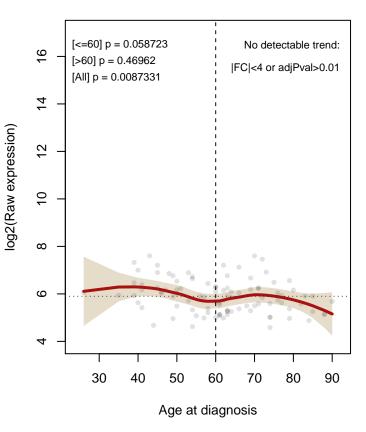
CCND1 (ER binding)

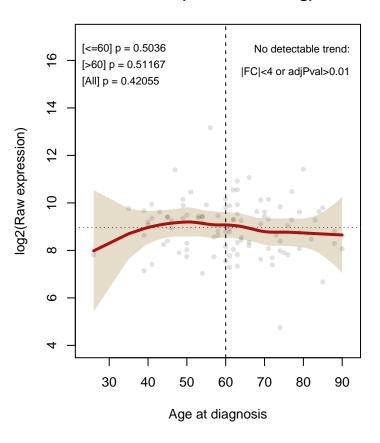






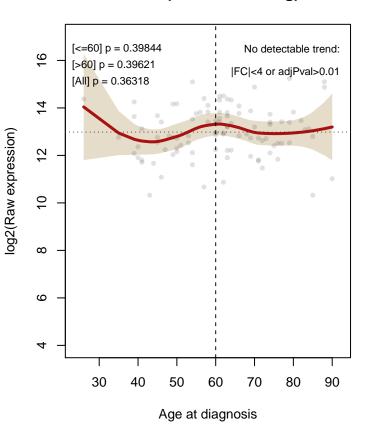
CD163 (non-ER binding)

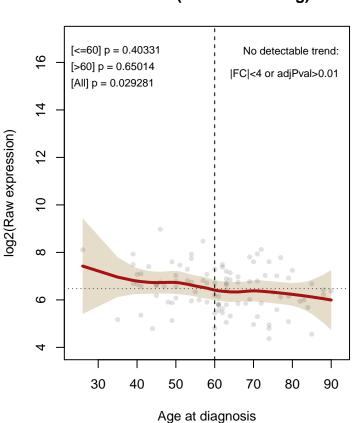


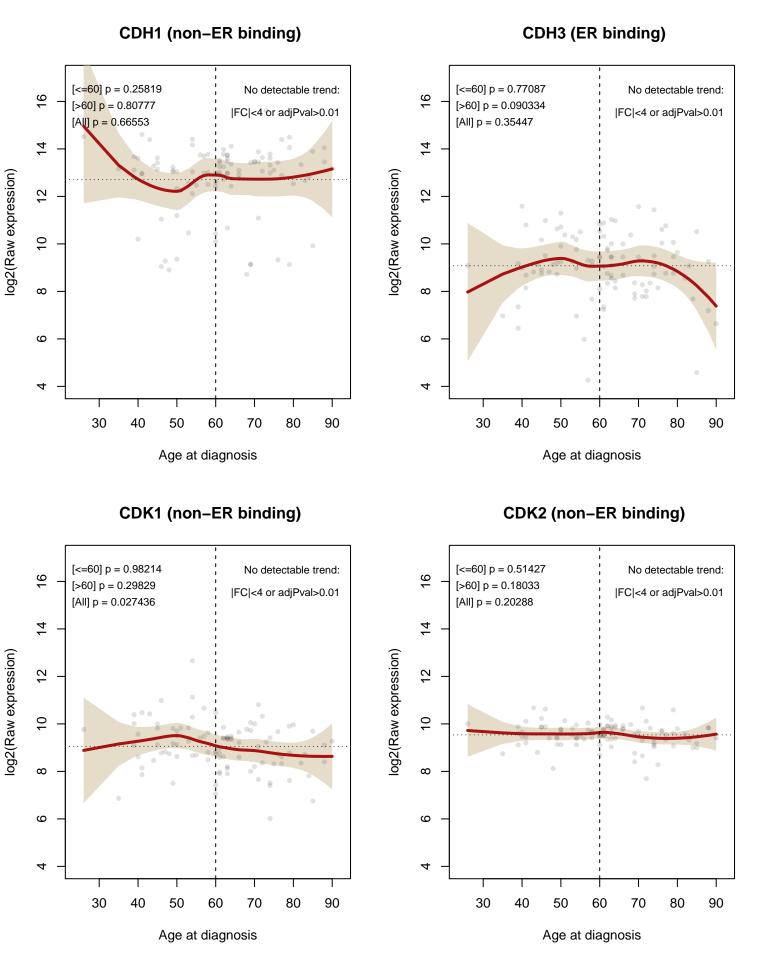


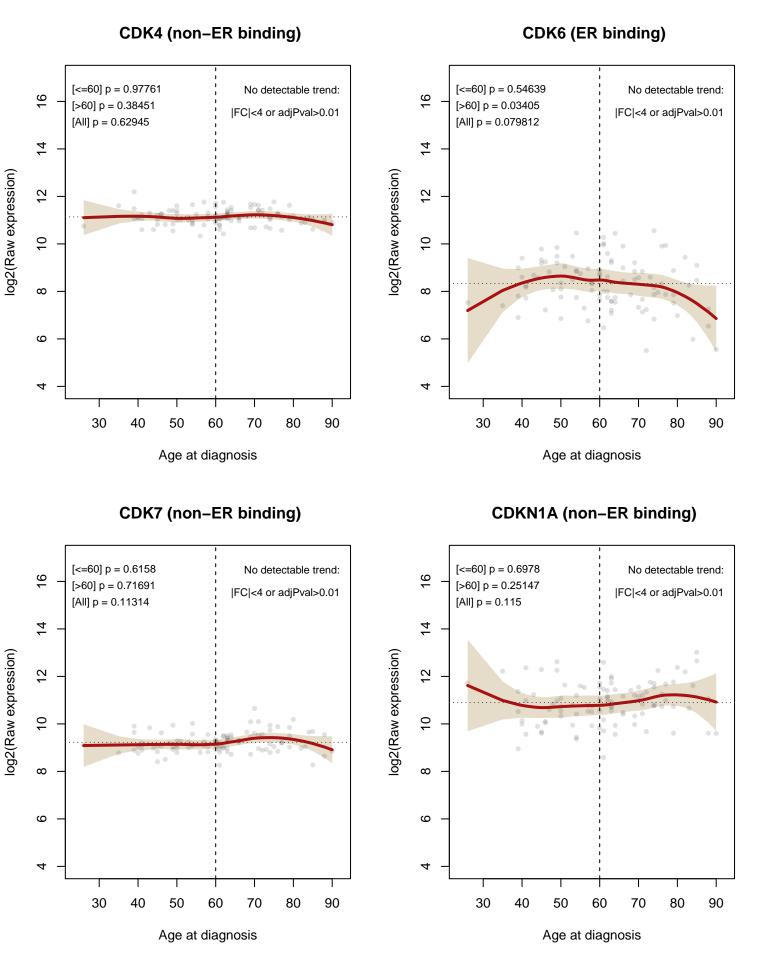
CD44 (non-ER binding)

CDC25C (non-ER binding)



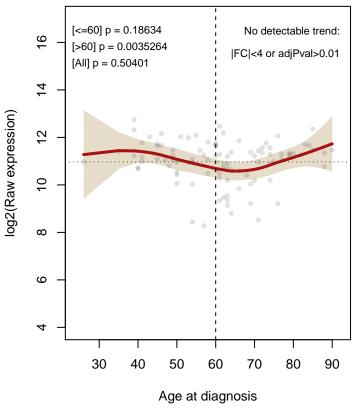


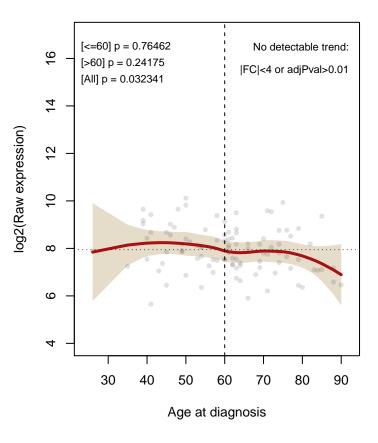




CDKN1B (non-ER binding)

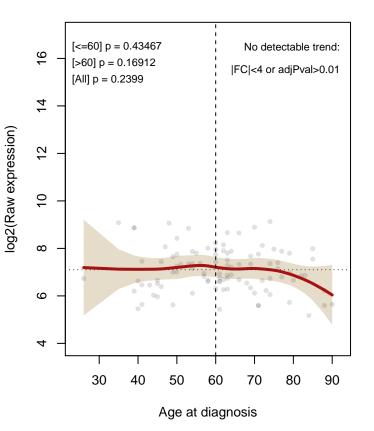
CDKN1C (non-ER binding)

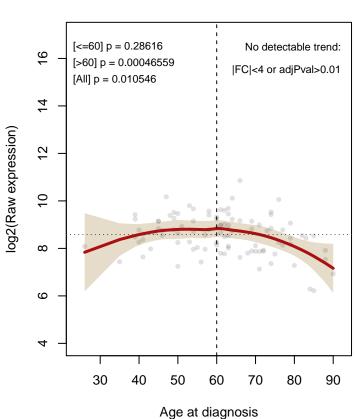




CDKN2A (non-ER binding)

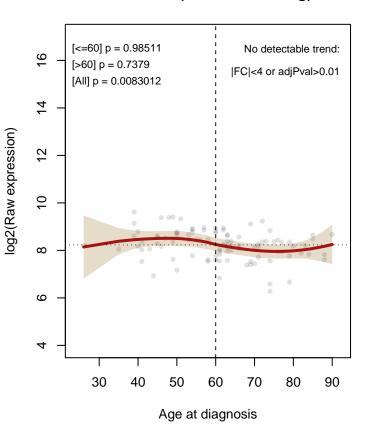
CDKN2B (non-ER binding)

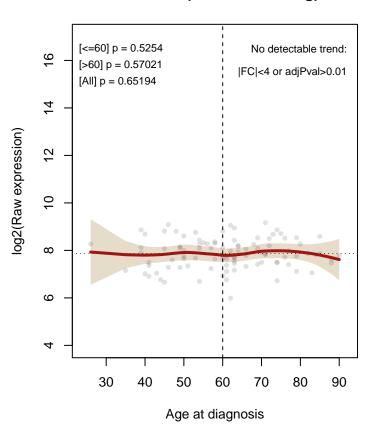




CDKN2C (non-ER binding)

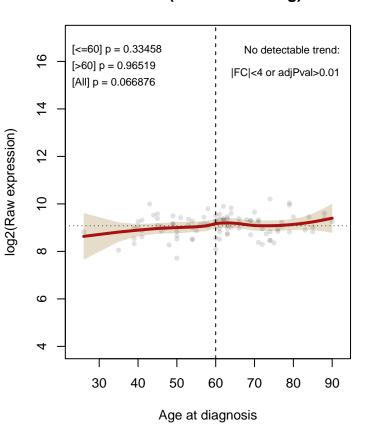
CDKN2D (non-ER binding)

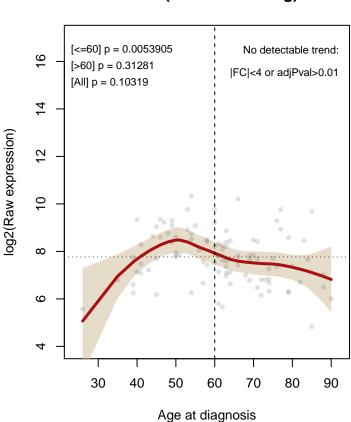




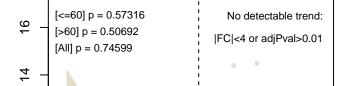
CHUK (non-ER binding)

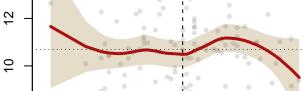
CIITA (non-ER binding)





CLDN3 (non-ER binding)





log2(Raw expression)

∞ 9

50

30

40

Age at diagnosis

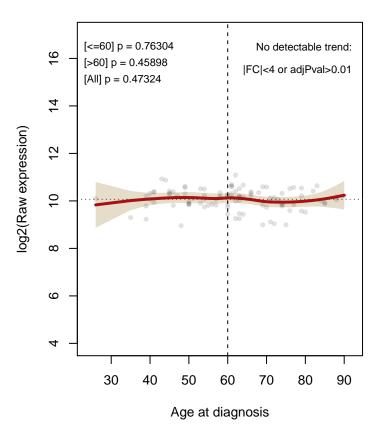
60

70

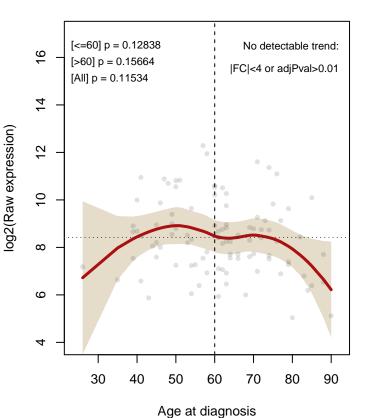
80

90

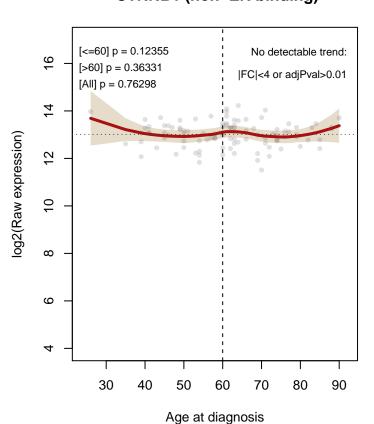
CREB1 (non-ER binding)



CRYAB (non-ER binding)



CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.10342No detectable trend: [<=60] p = 0.71853No detectable trend: 16 16 [>60] p = 0.044422 [>60] p = 0.16018 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.81118[AII] p = 5.3258e - 054 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 **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.90284No detectable trend: [<=60] p = 0.012384 No detectable trend: 16 16 [>60] p = 0.45963 [>60] p = 0.82821 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.13869[All] p = 0.0273764 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

60

Age at diagnosis

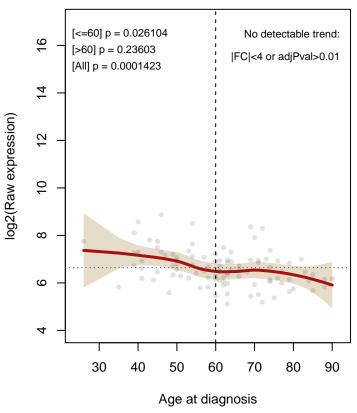
70

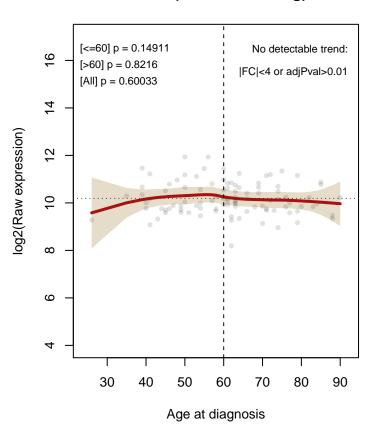
80

90



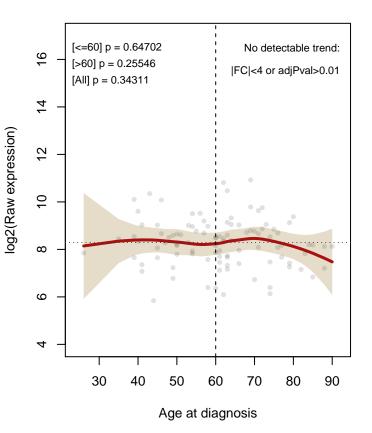
DVL1 (non-ER binding)

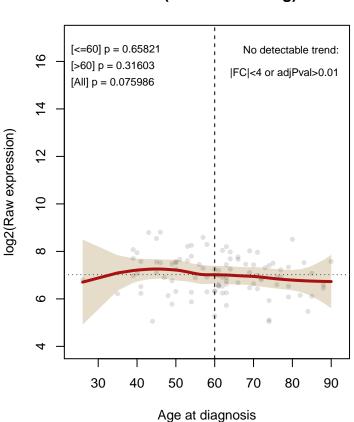


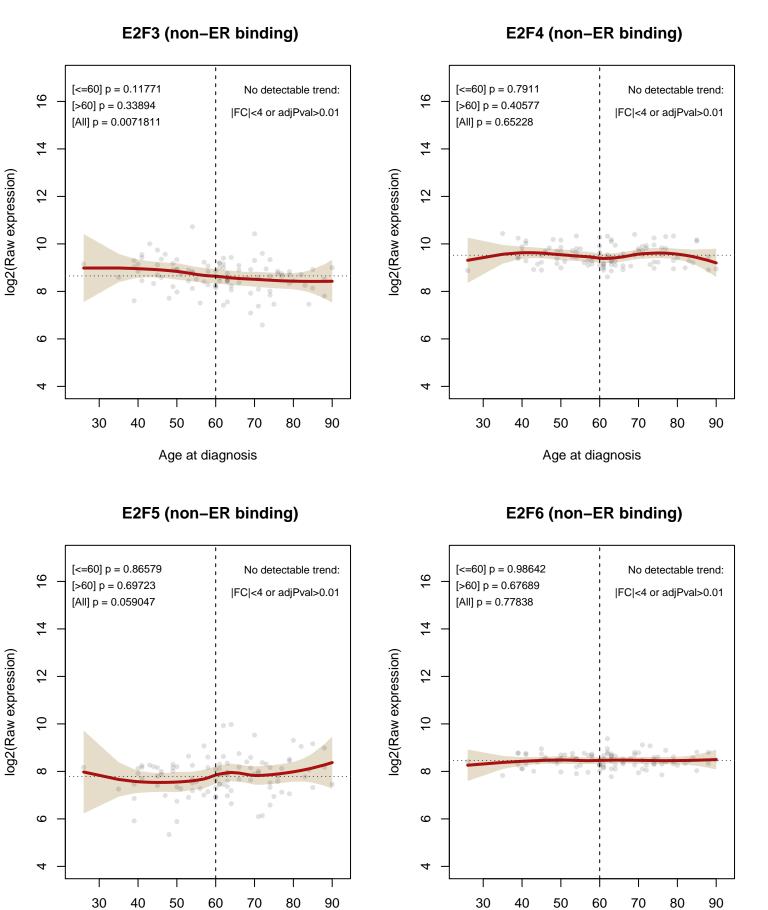


E2F1 (non-ER binding)

E2F2 (non-ER binding)

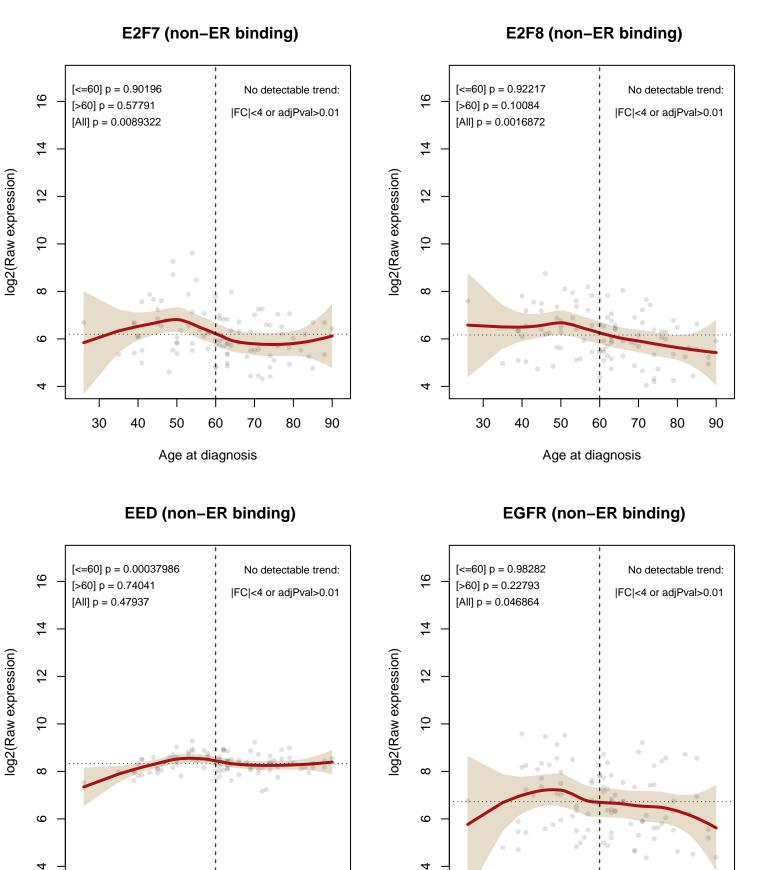






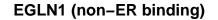
Age at diagnosis

Age at diagnosis

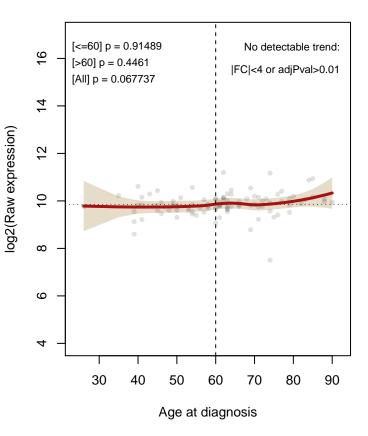


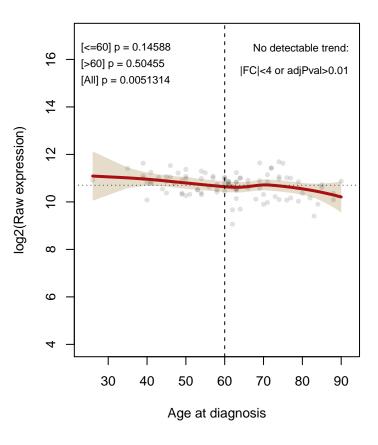
Age at diagnosis

Age at diagnosis



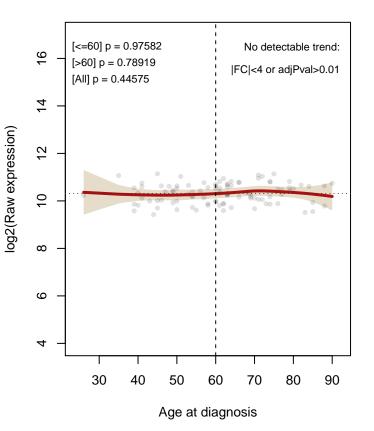
EHMT2 (non-ER binding)

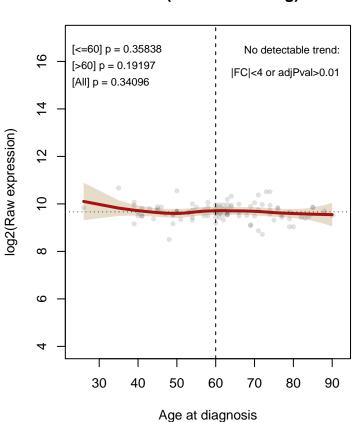


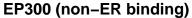


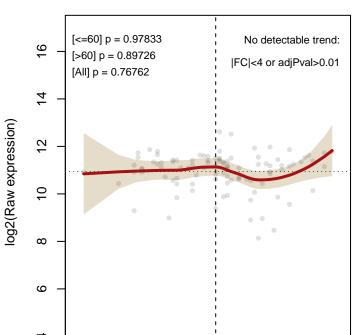
ELAC2 (non-ER binding)

ELK1 (non-ER binding)

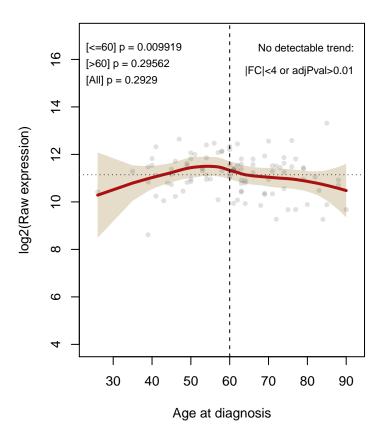






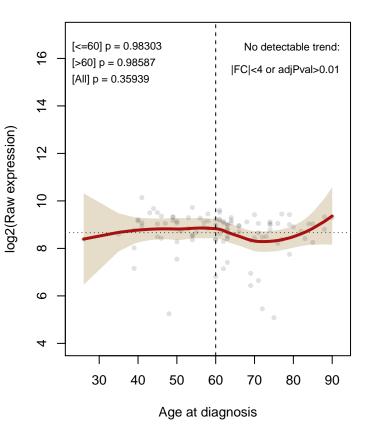


EPAS1 (non-ER binding)

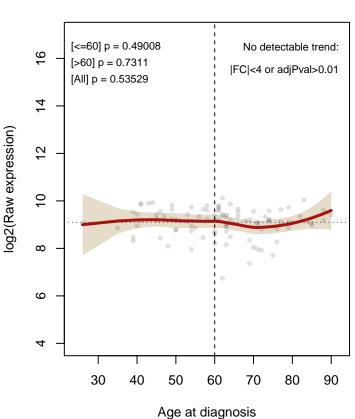


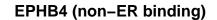
EPC1 (non-ER binding)

Age at diagnosis

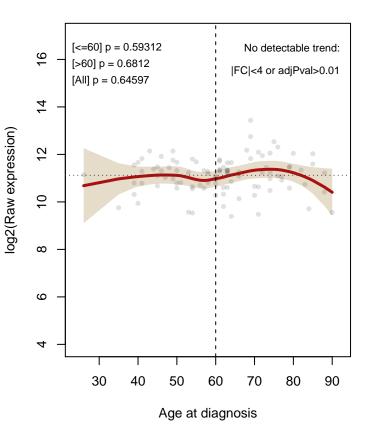


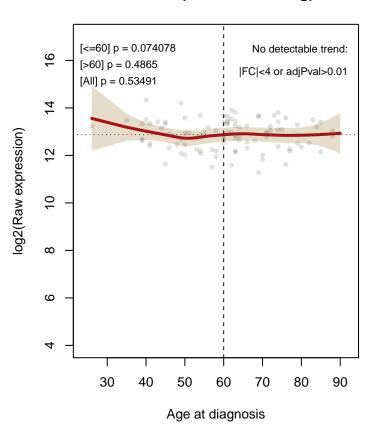
EPC2 (non-ER binding)





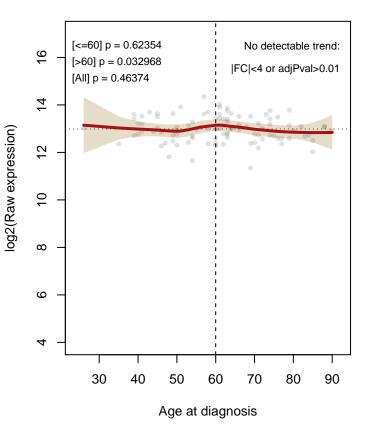
ERBB2 (non-ER binding)

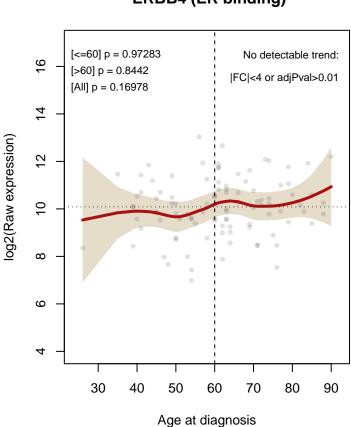


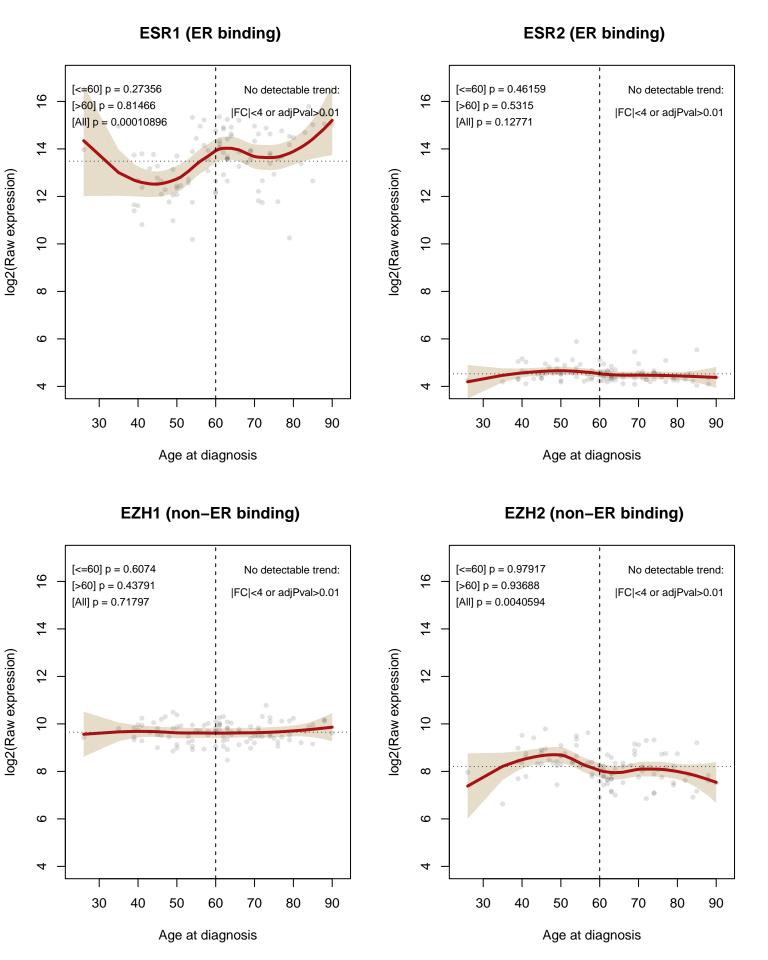


ERBB3 (non-ER binding)

ERBB4 (ER binding)

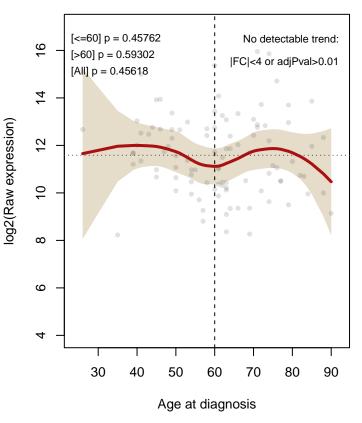


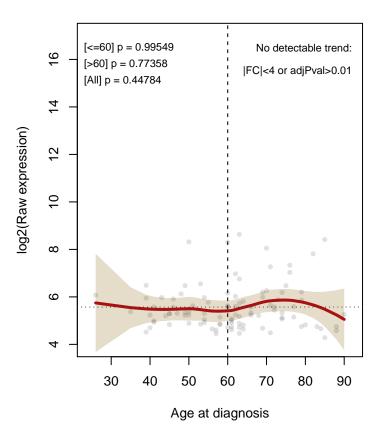






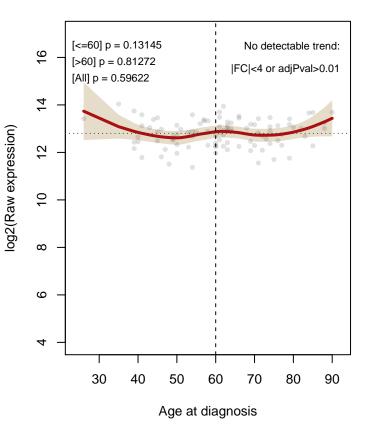
FOSL1 (non-ER binding)

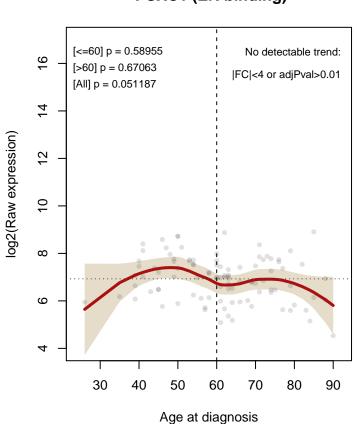


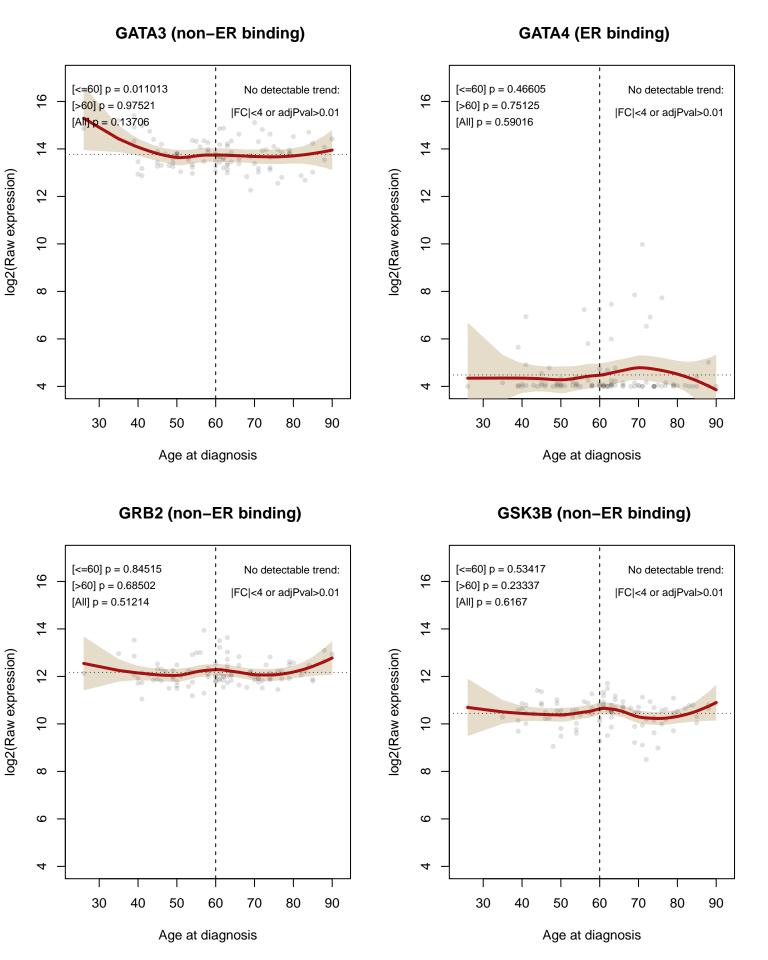


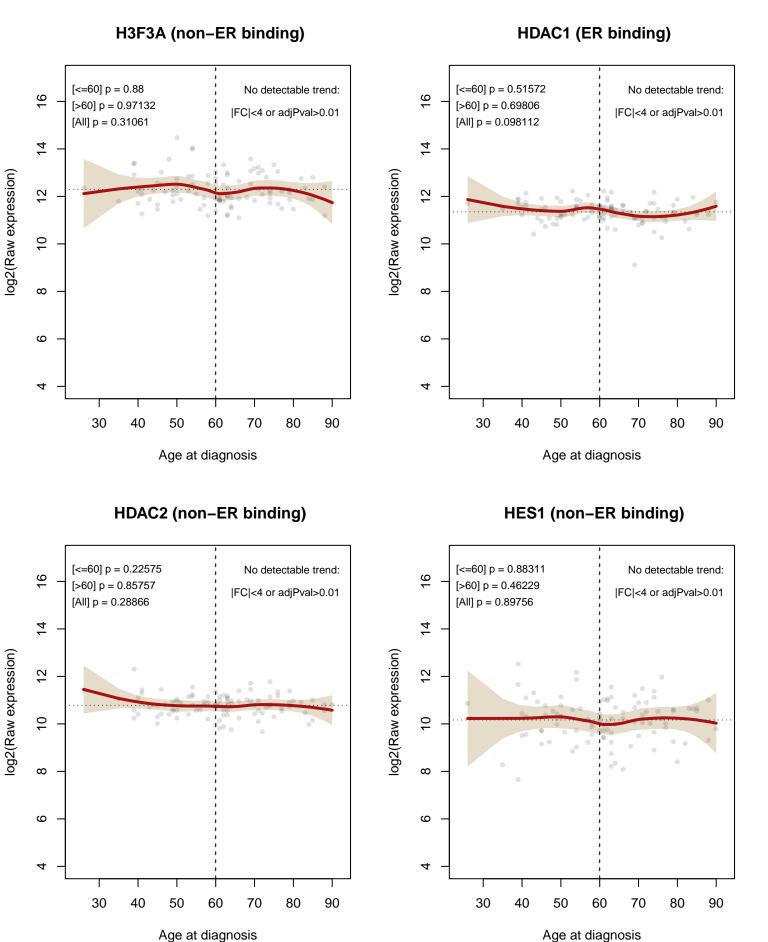
FOXA1 (ER binding)

FOXC1 (ER binding)



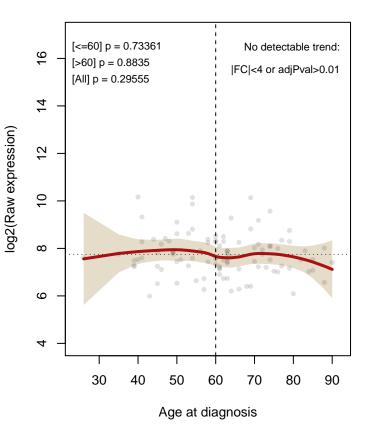


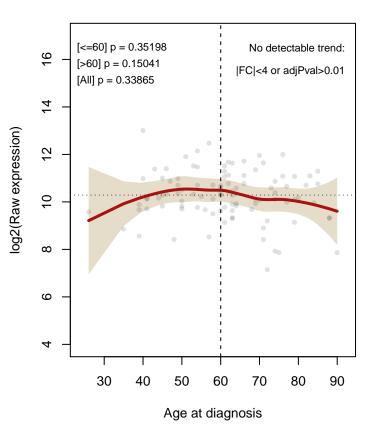






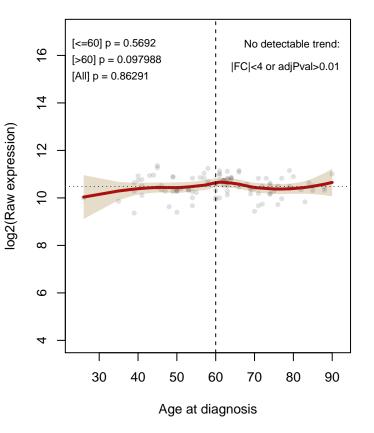
HIF1A (non-ER binding)

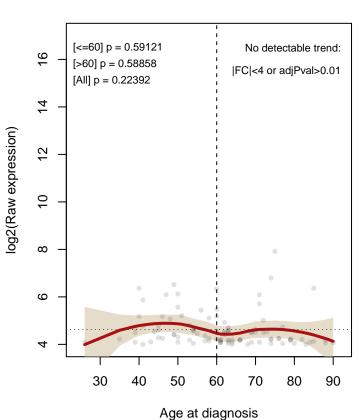




HIF1AN (non-ER binding)

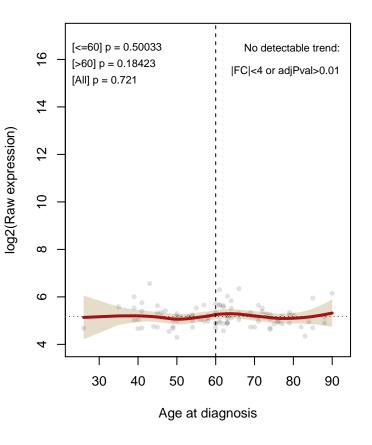
HIF3A (non-ER binding)

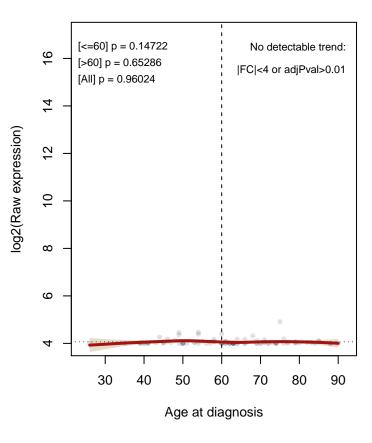




HNF1A (non-ER binding)

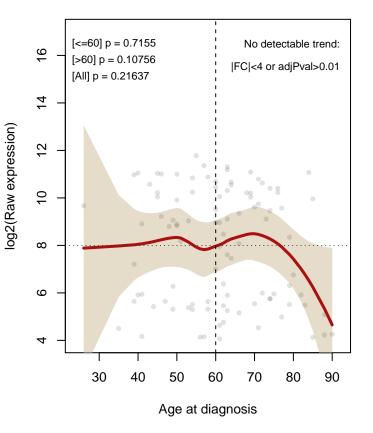
HNF1B (non-ER binding)

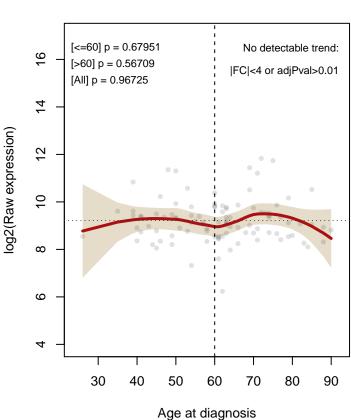




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.18721 No detectable trend: [<=60] p = 0.10765 No detectable trend: 16 16 [>60] p = 0.5615 [>60] p = 0.4845 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.5507[AII] p = 0.706724 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.48148No detectable trend: [<=60] p = 0.81323No detectable trend: 16 16 [>60] p = 0.98478 [>60] p = 0.76062 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.59447[All] p = 0.718084 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞

9

30

40

50

60

Age at diagnosis

70

80

90

9

30

40

50

60

Age at diagnosis

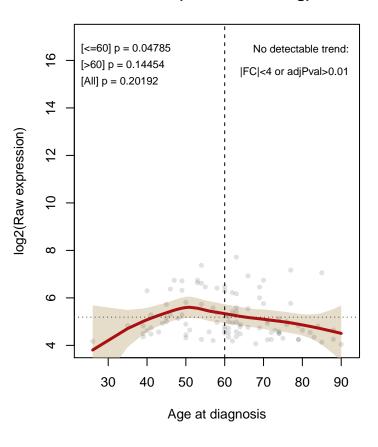
70

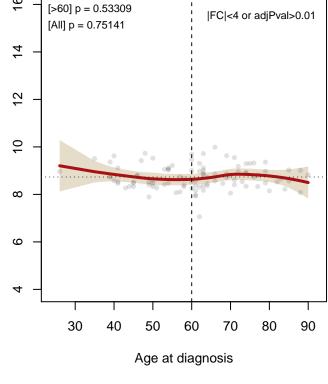
80

90

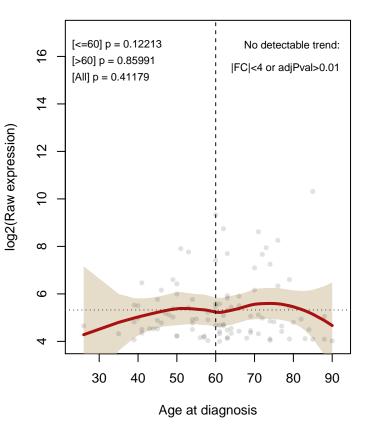
IKBKG (ER binding) [<=60] p = 0.41918No detectable trend: 16 [>60] p = 0.53309 [All] p = 0.751414 log2(Raw expression)

IL2RA (non-ER binding)

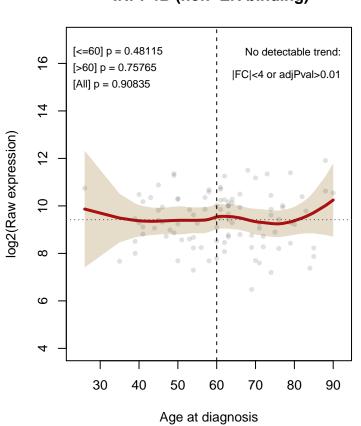


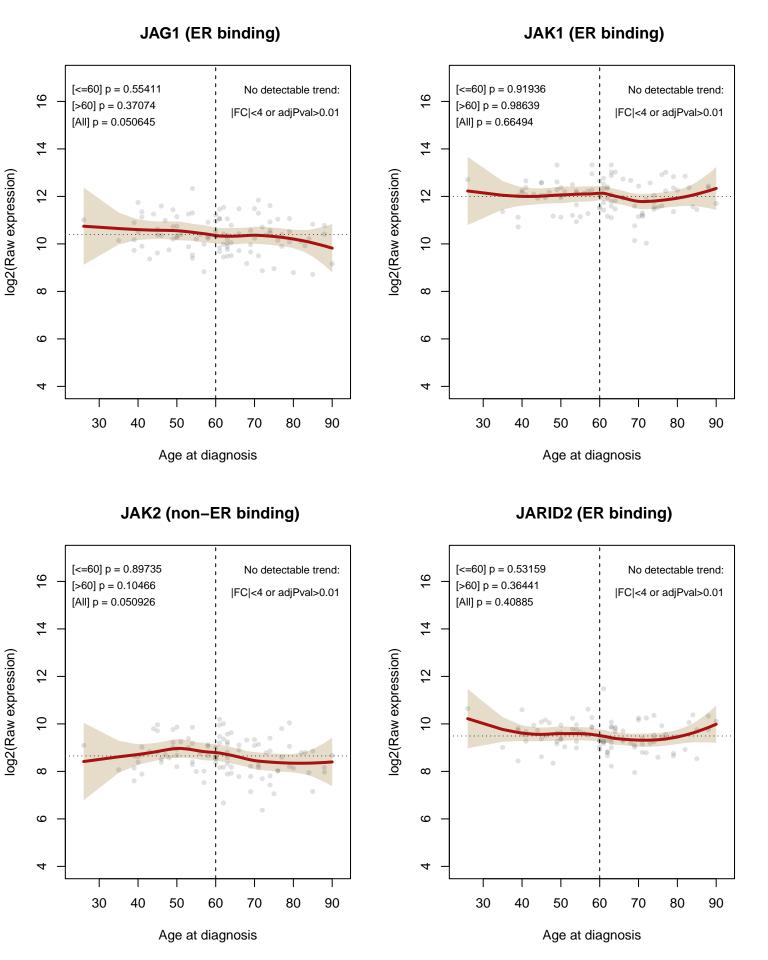


IL6 (non-ER binding)



INPP4B (non-ER binding)







[<=60] p = 0.56329

[>60] p = 0.85727

[All] p = 0.024943

16

4

12

10

 ∞

9

30

40

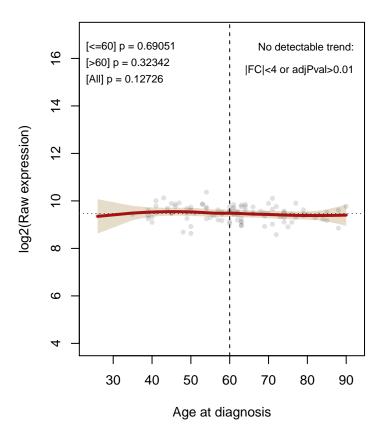
50

log2(Raw expression)

No detectable trend:

|FC|<4 or adjPval>0.01

KDM2B (non-ER binding)



KDM6A (non-ER binding)

Age at diagnosis

60

70

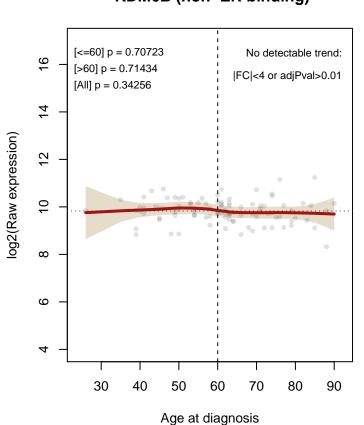
80

90

[<=60] p = 0.77105No detectable trend: 16 [>60] p = 0.65156 |FC|<4 or adjPval>0.01 [All] p = 0.61924 log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

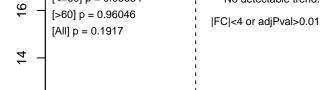
Age at diagnosis

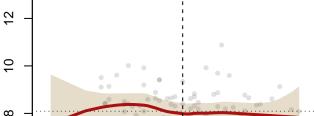
KDM6B (non-ER binding)





[<=60] p = 0.93684 No detectable trend:



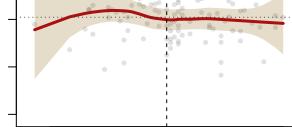


log2(Raw expression)

9

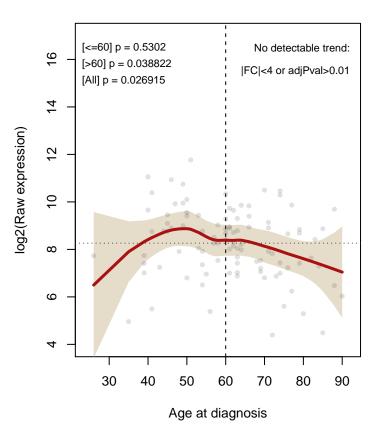
30

40



50

KIT (non-ER binding)



KMT2C (non-ER binding)

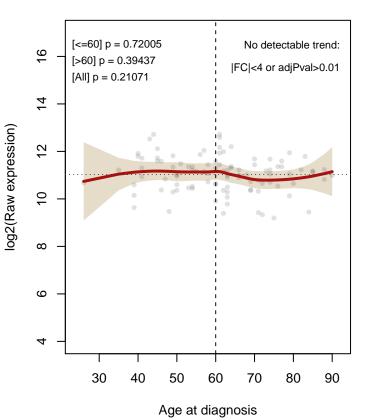
Age at diagnosis

60

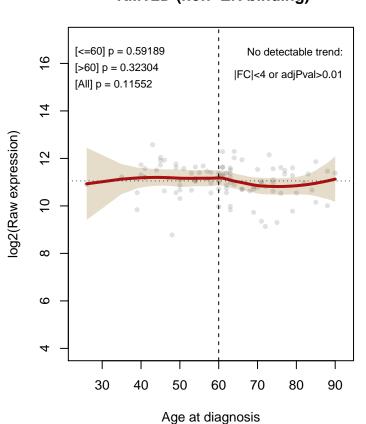
70

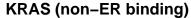
80

90

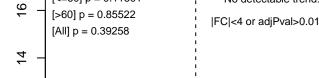


KMT2D (non-ER binding)





[<=60] p = 0.11301No detectable trend: [>60] p = 0.85522



log2(Raw expression)

12

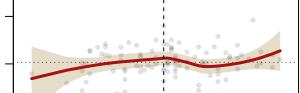
10

 ∞

9

30

40





Age at diagnosis

50

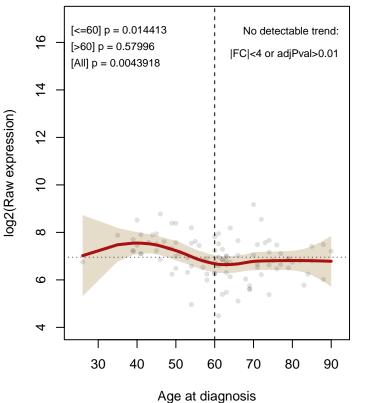
L3MBTL1 (non-ER binding)

60

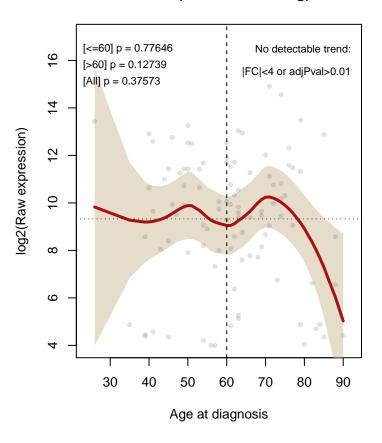
70

80

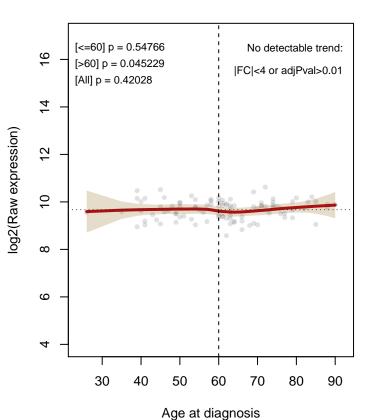
90



KRT5 (non-ER binding)

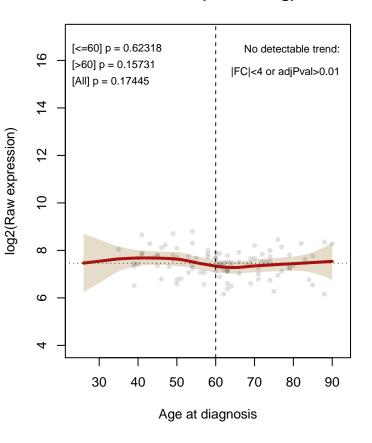


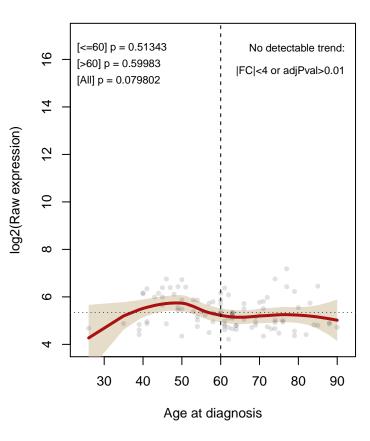
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

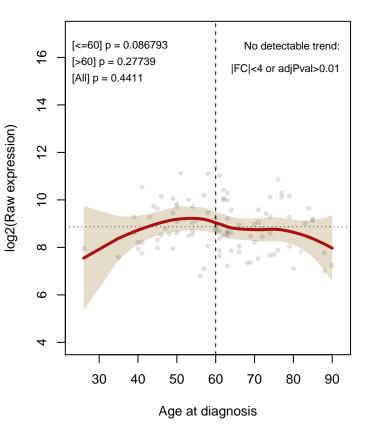
L3MBTL4 (non-ER binding)

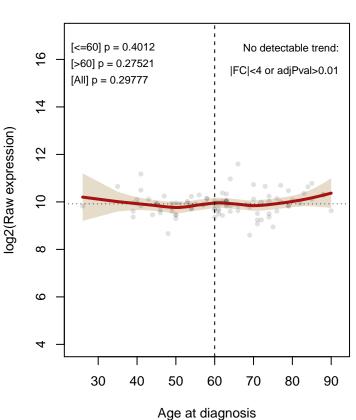




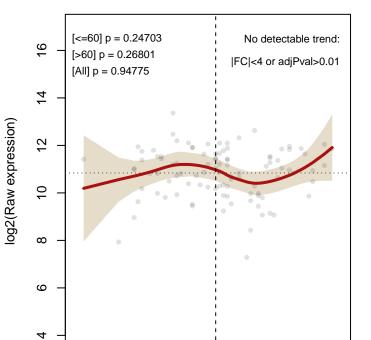
LEF1 (non-ER binding)

MAP2K1 (non-ER binding)

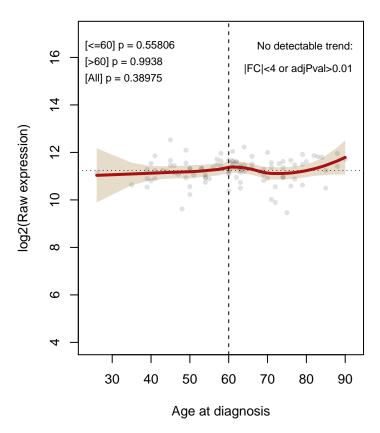




MAP3K1 (non-ER binding)



MAPK1 (non-ER binding)



MAPK3 (non-ER binding)

Age at diagnosis

60

70

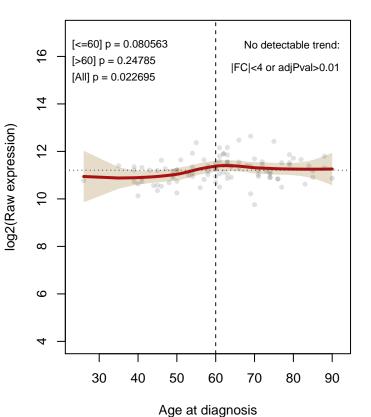
80

90

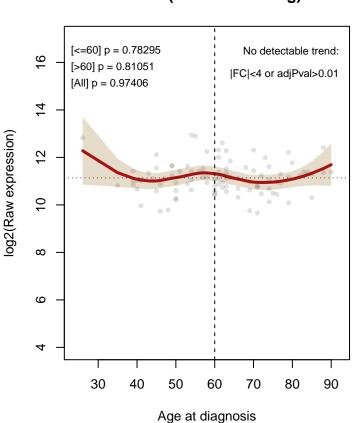
30

40

50

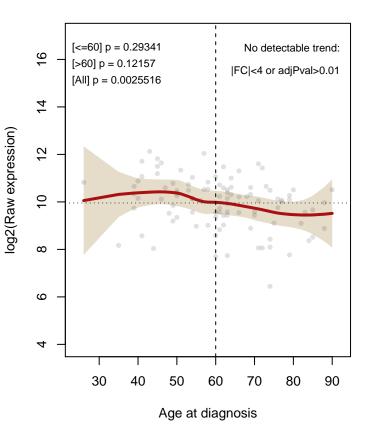


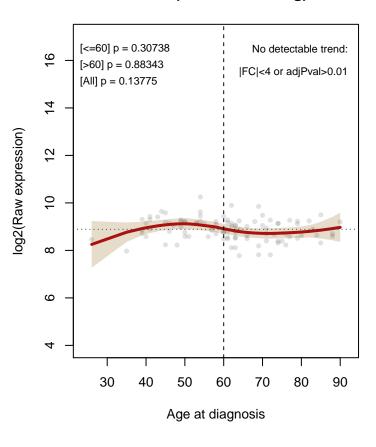
MDM2 (non-ER binding)





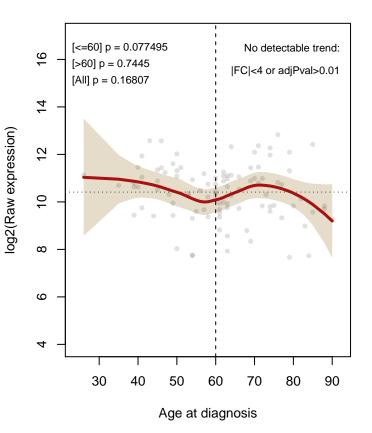
MTF2 (non-ER binding)

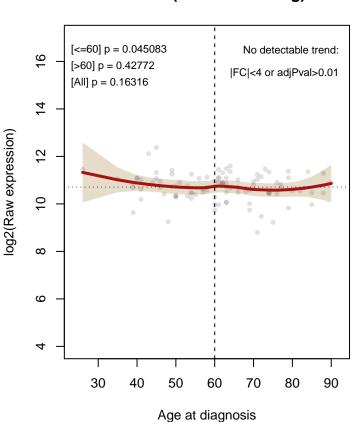


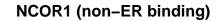


MYC (non-ER binding)

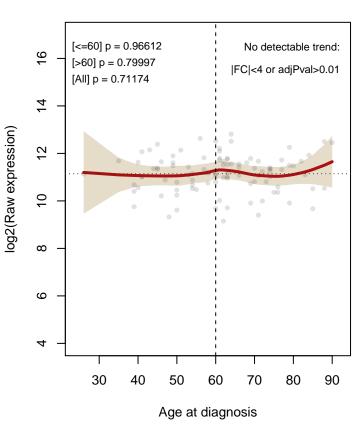
NCOA6 (non-ER binding)

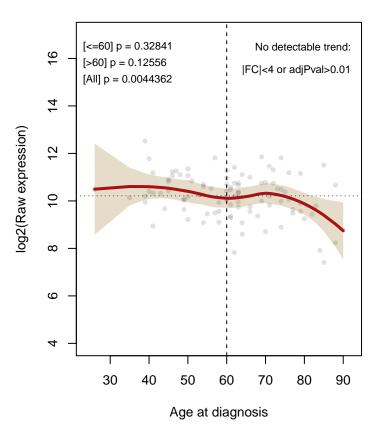






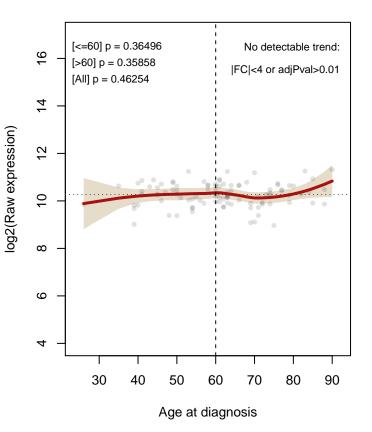
NES (non-ER binding)

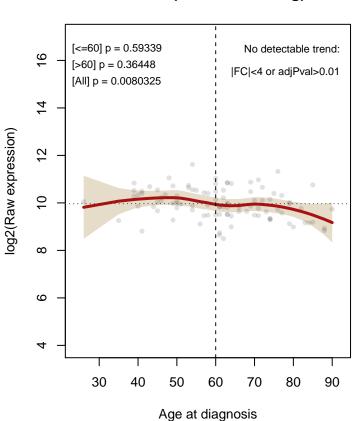




NFKB1 (non-ER binding)

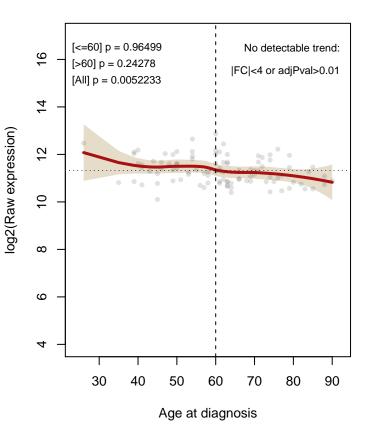
NFKB2 (non-ER binding)

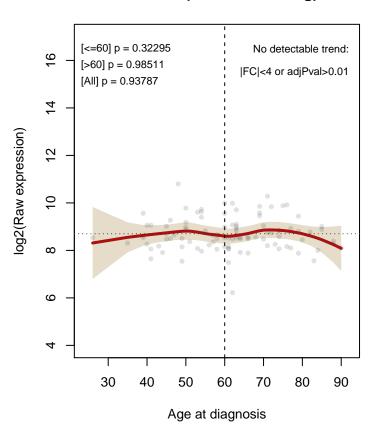




NFKBIA (non-ER binding)

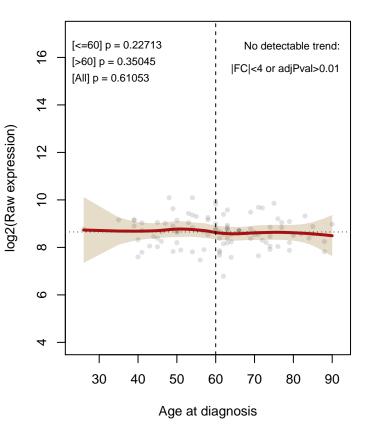
NFKBIB (non-ER binding)

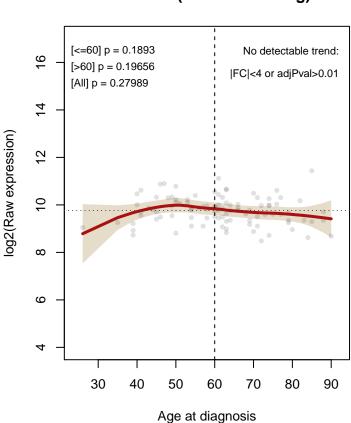




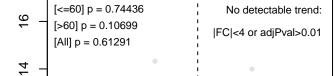
NFKBIE (non-ER binding)

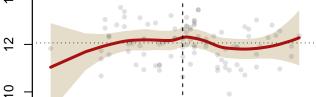
NOTCH1 (non-ER binding)





NOTCH2 (non-ER binding)





10 ∞

log2(Raw expression)



Age at diagnosis

50

30

40

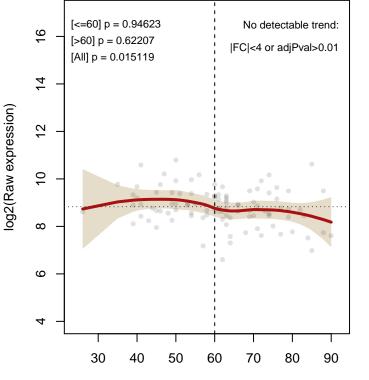
NOTCH4 (non-ER binding)

60

70

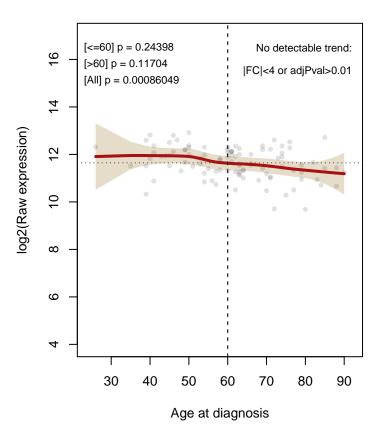
80

90

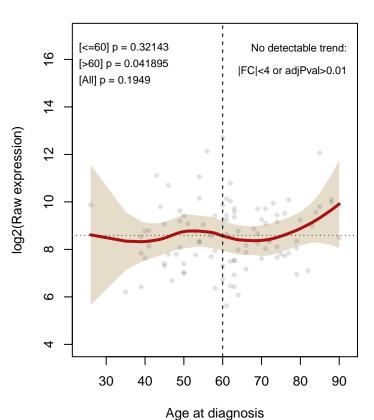


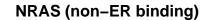
Age at diagnosis

NOTCH3 (non-ER binding)

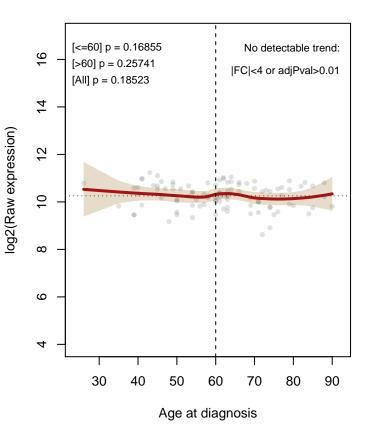


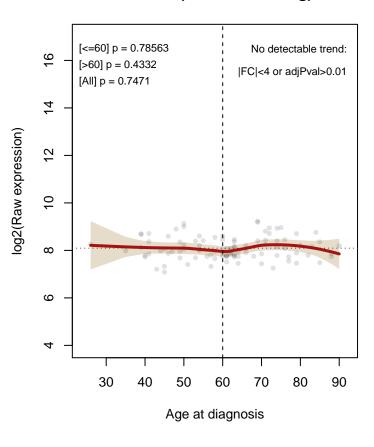
NR4A2 (non-ER binding)





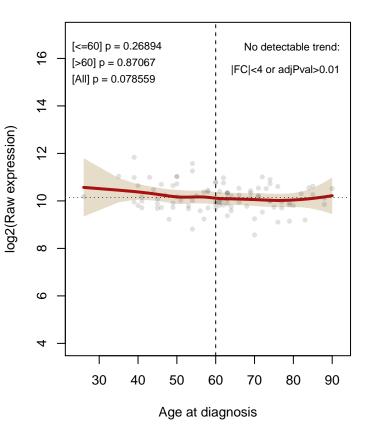
PCGF1 (non-ER binding)

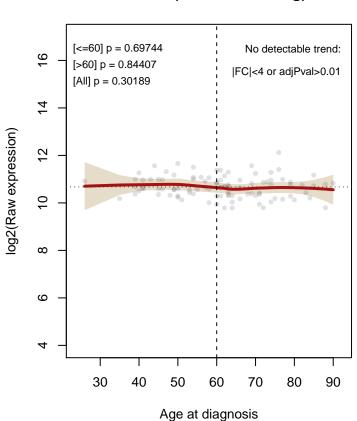




PCGF2 (non-ER binding)

PCGF3 (non-ER binding)







[<=60] p = 0.47598

[>60] p = 0.7288

[All] p = 0.68918

30

40

50

16

4

12

10

 ∞

9

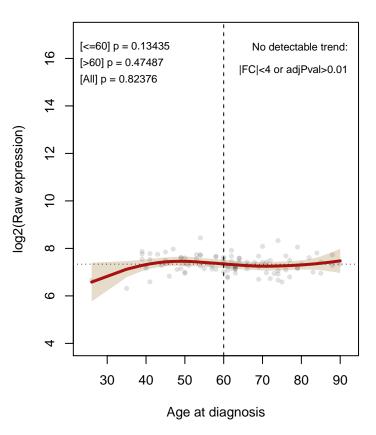
log2(Raw expression)

log2(Raw expression)

No detectable trend:

|FC|<4 or adjPval>0.01

PCGF6 (non-ER binding)



PDGFRA (non-ER binding)

Age at diagnosis

60

70

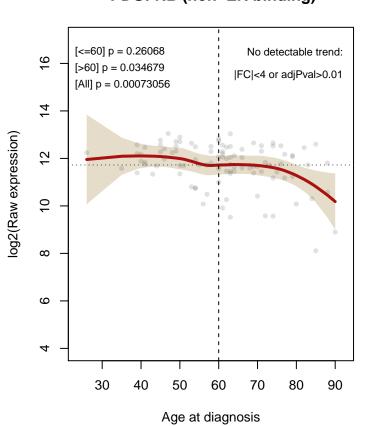
80

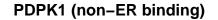
90

[<=60] p = 0.87017No detectable trend: 16 [>60] p = 0.0020993 |FC|<4 or adjPval>0.01 [AII] p = 0.000794464 12 19 ∞ 9 30 40 50 60 70 80 90

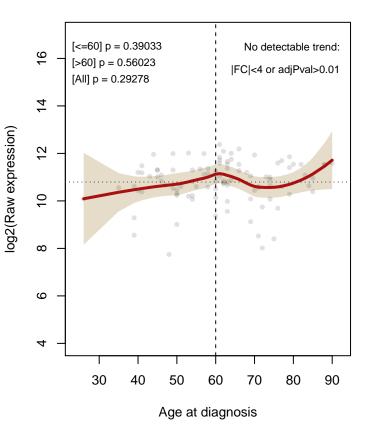
Age at diagnosis

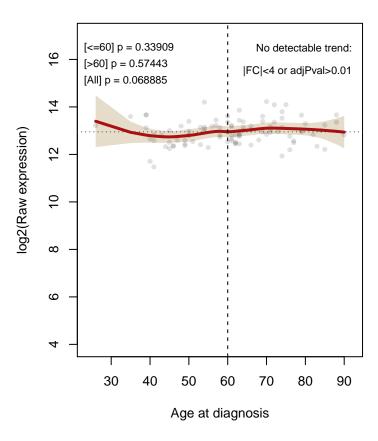
PDGFRB (non-ER binding)





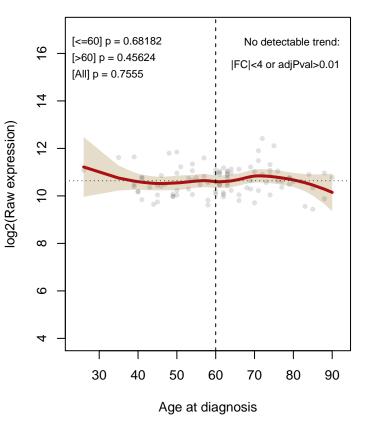
PEBP1 (non-ER binding)

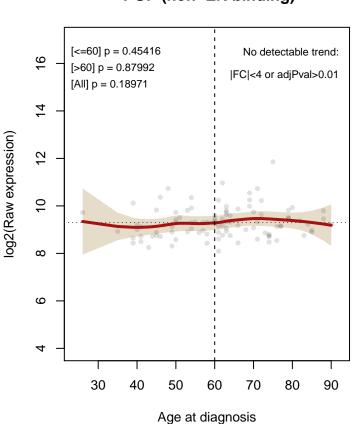


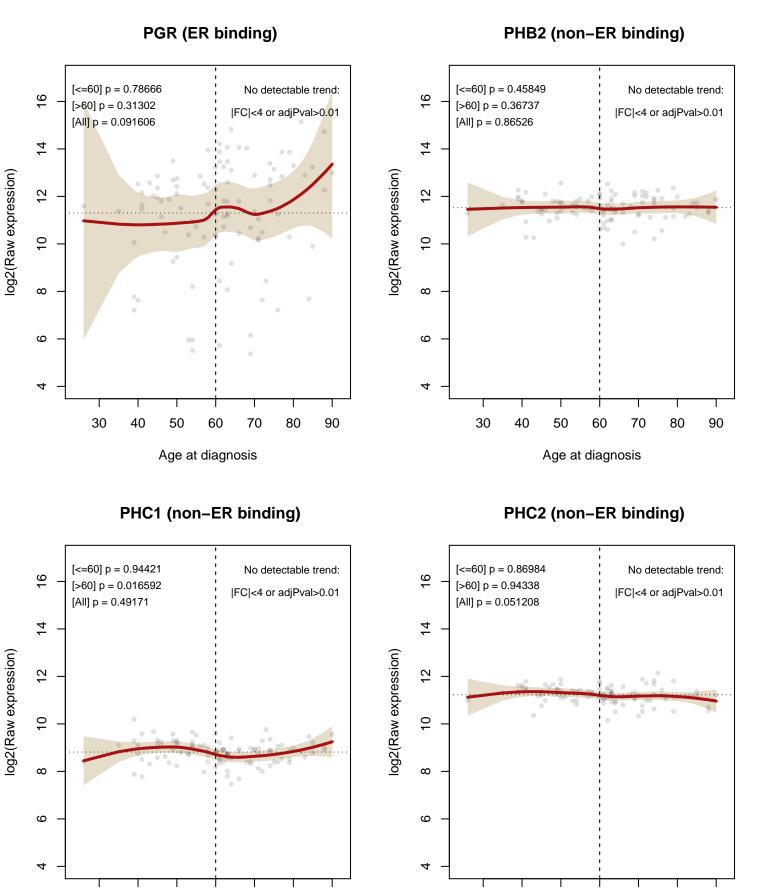


PELP1 (non-ER binding)

PGP (non-ER binding)



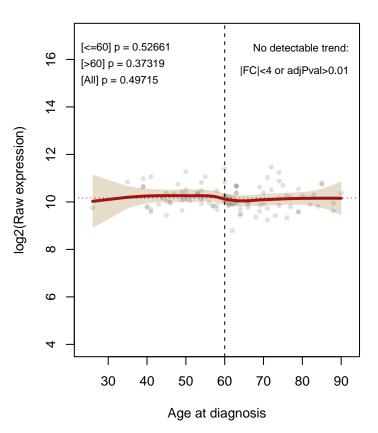




Age at diagnosis

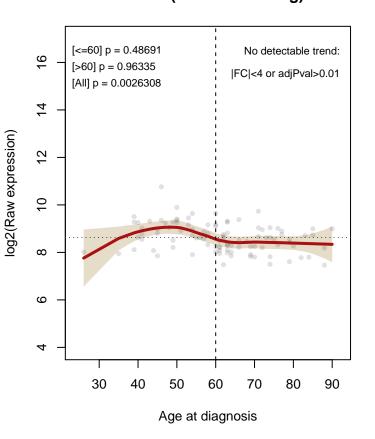
Age at diagnosis

PHF1 (non-ER binding)

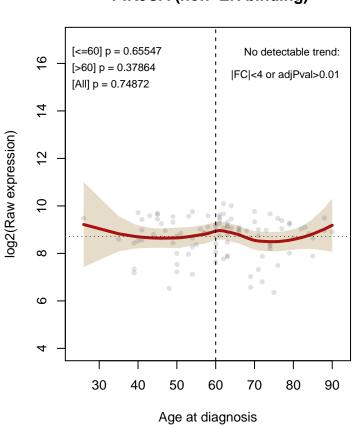


PHF19 (non-ER binding)

Age at diagnosis

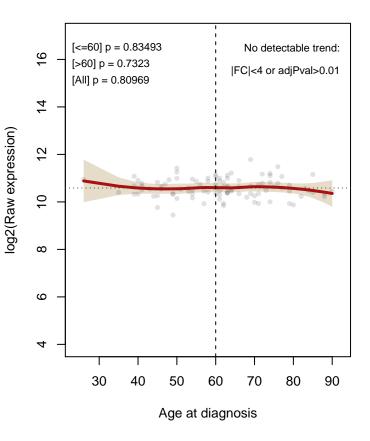


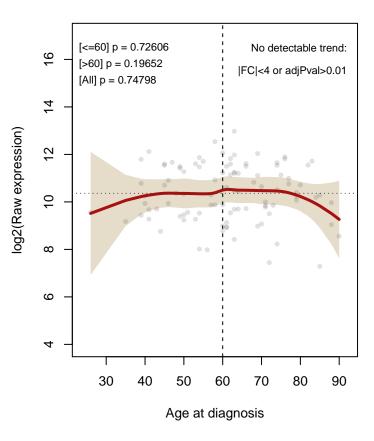
PIK3CA (non-ER binding)





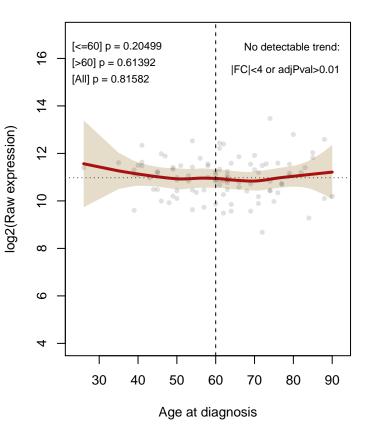
PLAU (non-ER binding)

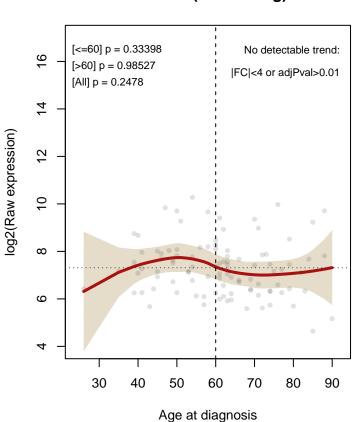


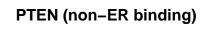


PODXL (non-ER binding)

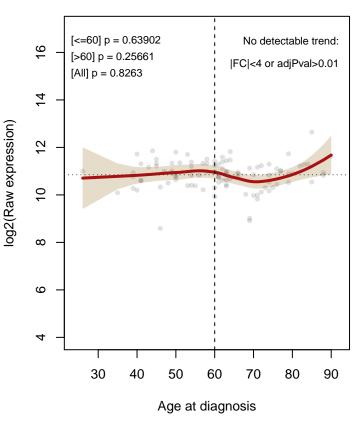
PPARG (ER binding)

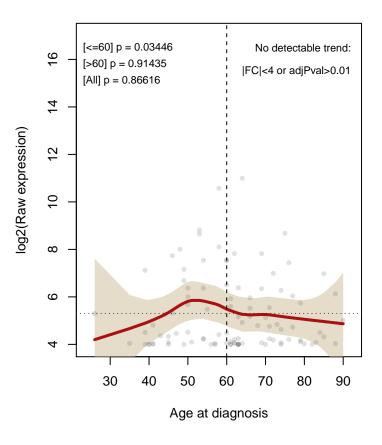






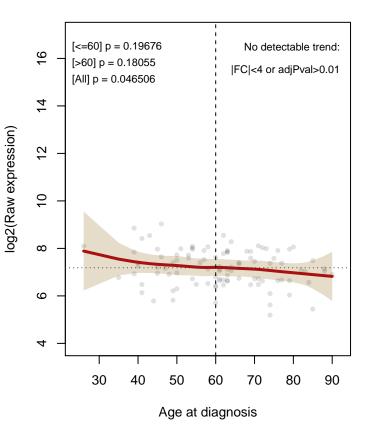
PYDC1 (non-ER binding)

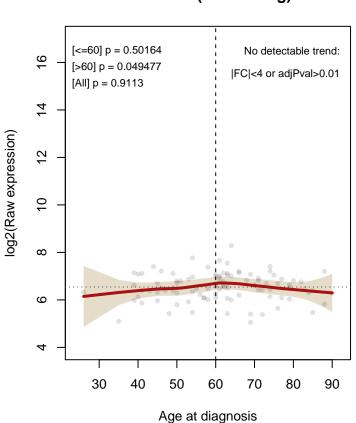




RAD51 (non-ER binding)

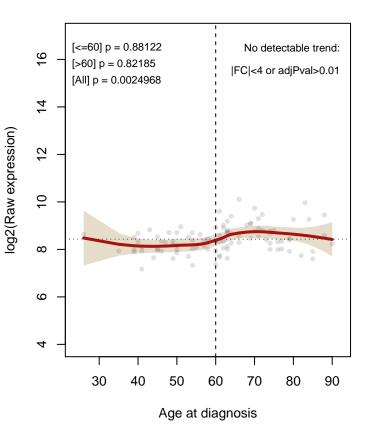
RAD51B (ER binding)

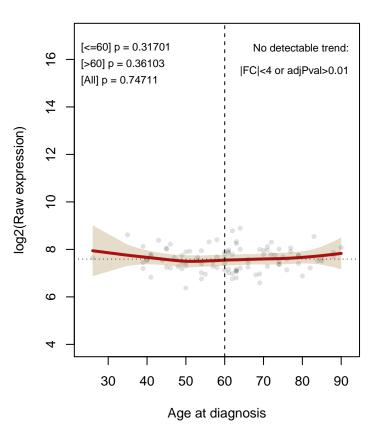




RAD51C (non-ER binding)

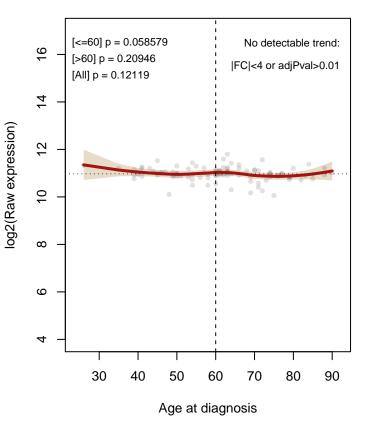
RAD51D (non-ER binding)

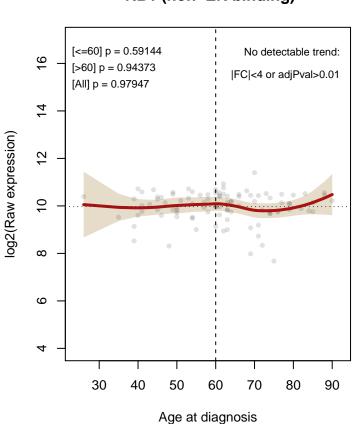


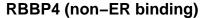


RAF1 (non-ER binding)

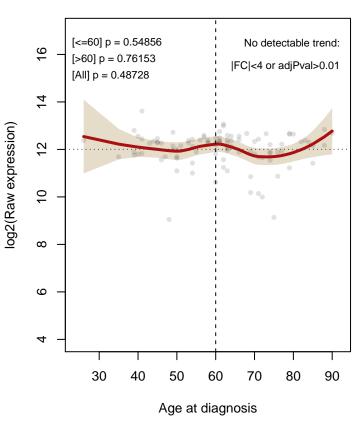
RB1 (non-ER binding)

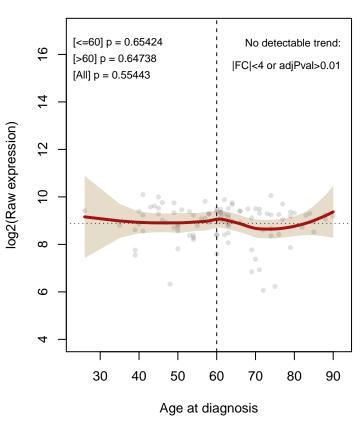






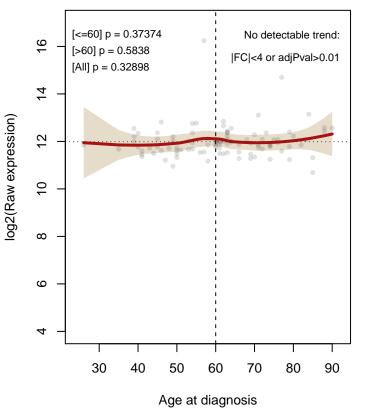
RBBP5 (non-ER binding)

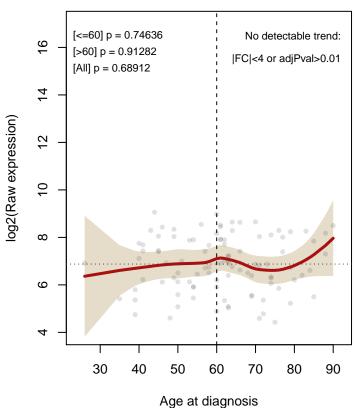


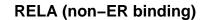


RBBP7 (non-ER binding)

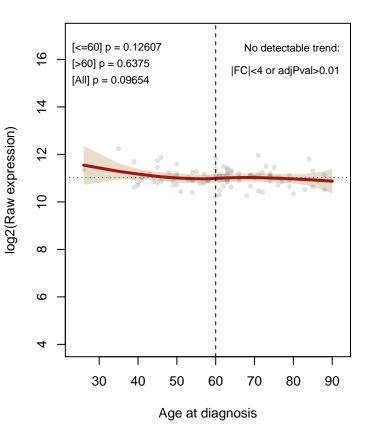
REL (non-ER binding)

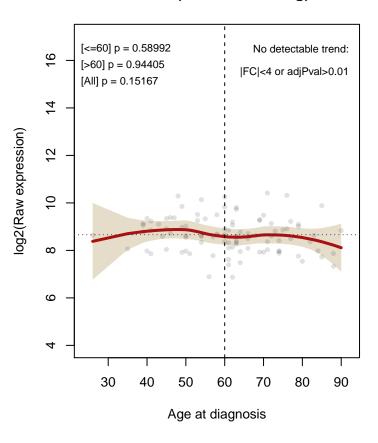






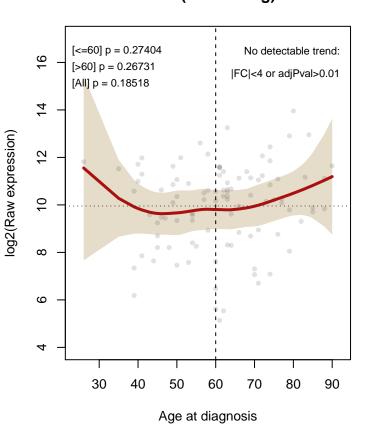
RELB (non-ER binding)

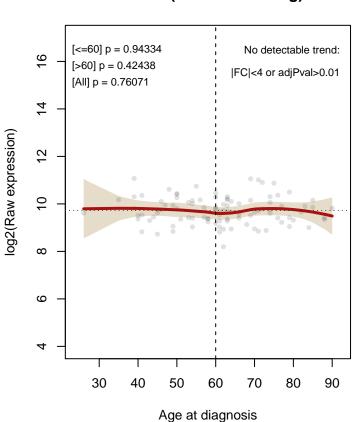




RET (ER binding)

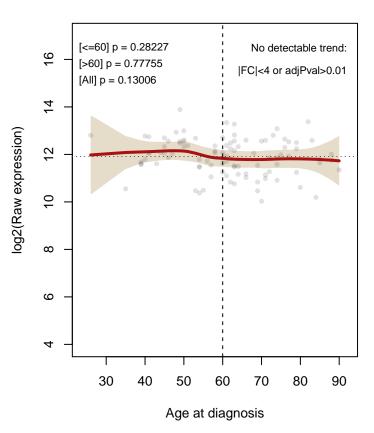
RING1 (non-ER binding)





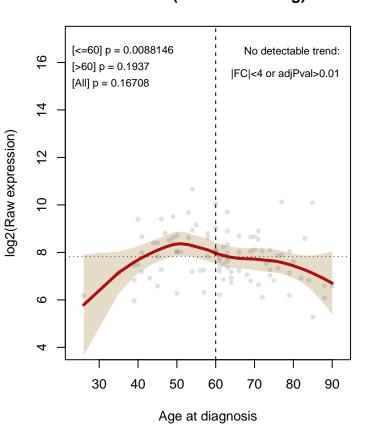
RNF2 (non-ER binding) [<=60] p = 0.60042No detectable trend: 16 [>60] p = 0.54213 |FC|<4 or adjPval>0.01 [All] p = 0.655424 log2(Raw expression) 12 10 ∞ 9 30 40 50 60 70 80 90

RUNX1 (ER binding)

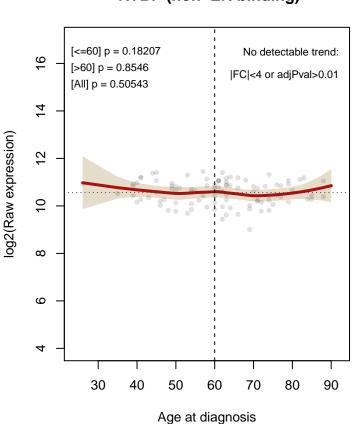


RUNX3 (non-ER binding)

Age at diagnosis

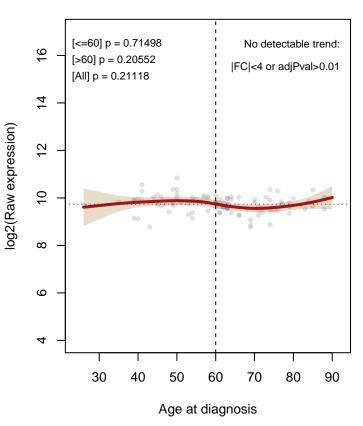


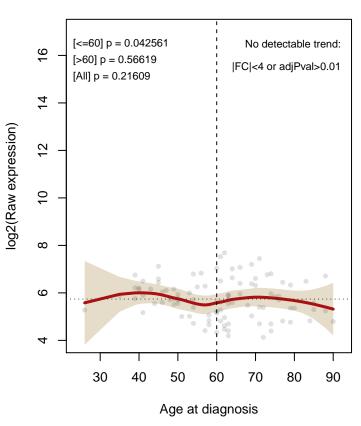
RYBP (non-ER binding)



SCMH1 (non-ER binding)

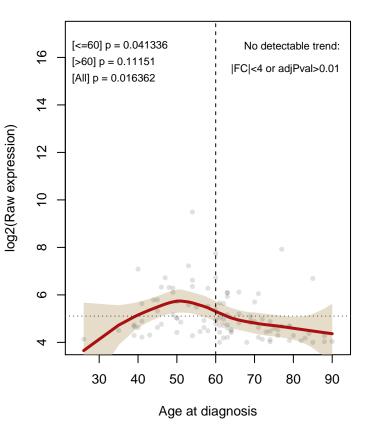
SCML2 (non-ER binding)

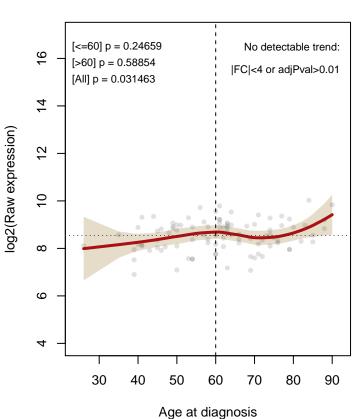




SCML4 (non-ER binding)

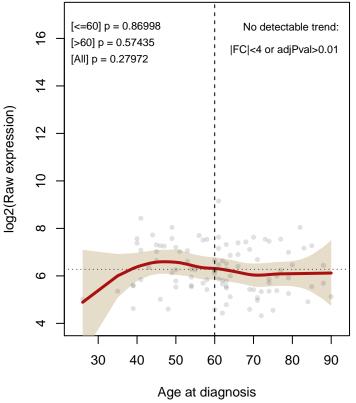
SFMBT1 (ER binding)

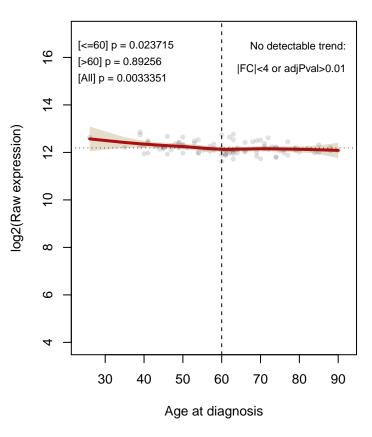




SFMBT2 (ER binding) [<=60] p = 0.86998 | No detecta

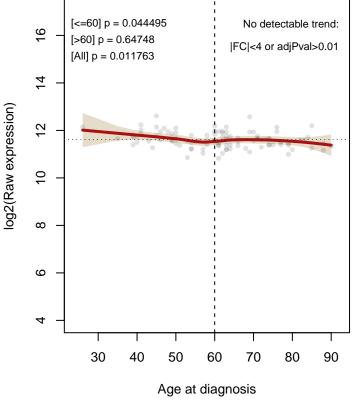
SFPQ (non-ER binding)



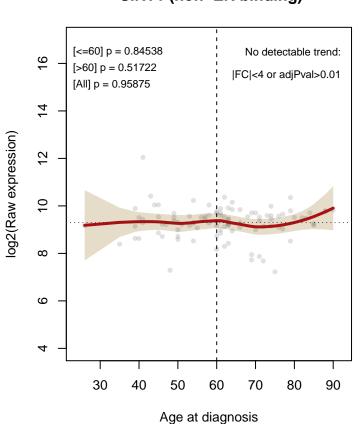


SHC1 (non-ER binding)

SHC1 (non-ER binding

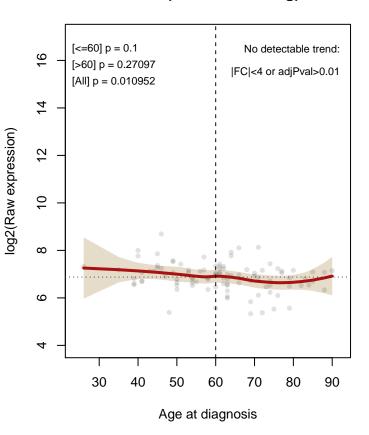


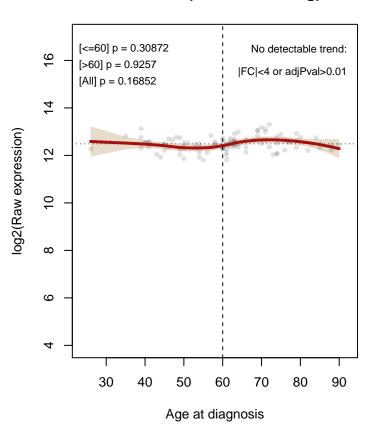
SIRT1 (non-ER binding)



SKP2 (non-ER binding)

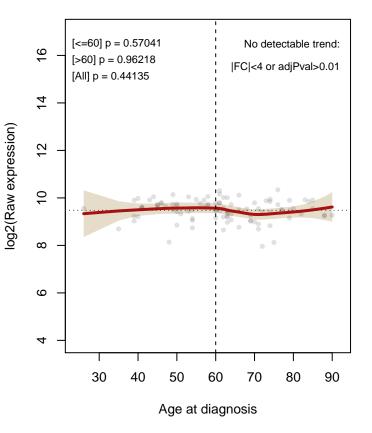
SLC25A3 (non-ER binding)

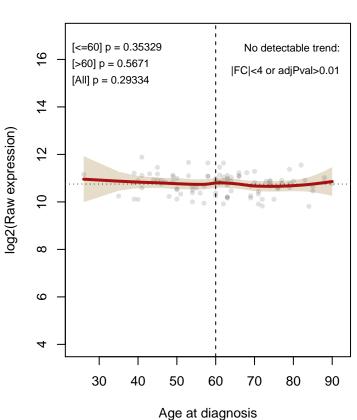




SMAD1 (non-ER binding)

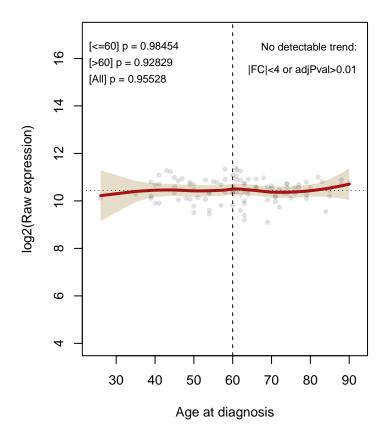
SMAD2 (non-ER binding)

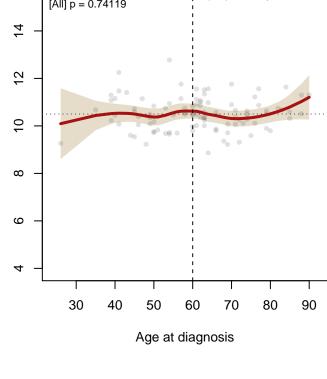




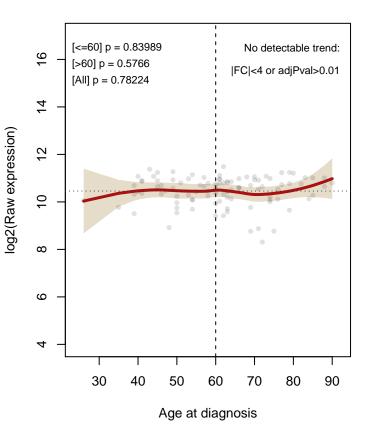
SMAD3 (ER binding) [<=60] p = 0.93064No detectable trend: 16 [>60] p = 0.62695 |FC|<4 or adjPval>0.01 [All] p = 0.741194 log2(Raw expression) 12

SMAD4 (non-ER binding)

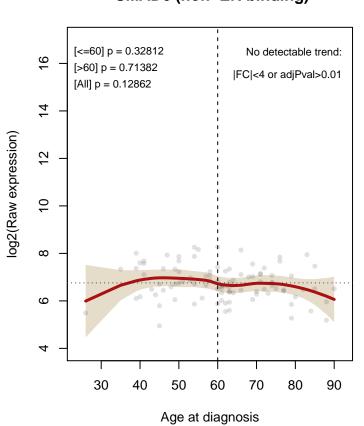




SMAD5 (non-ER binding)

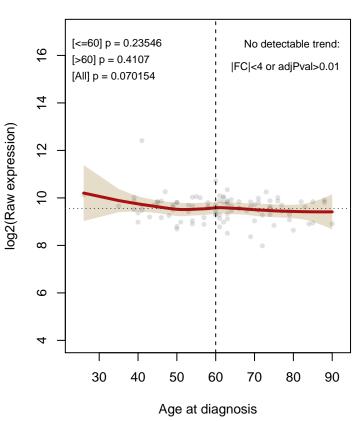


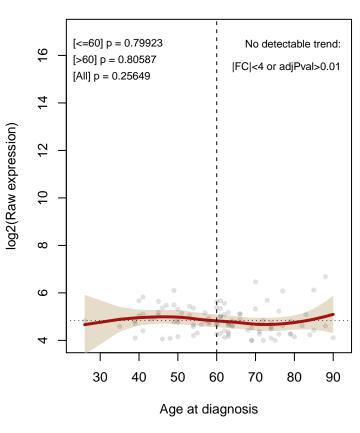
SMAD6 (non-ER binding)



SMAD7 (non-ER binding)

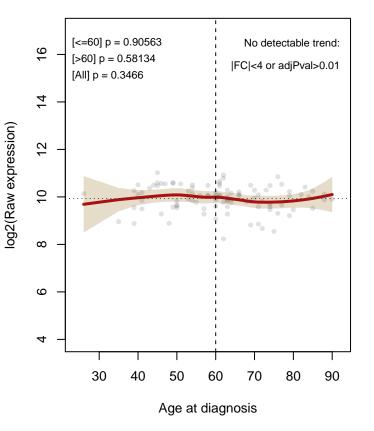
SMAD9 (non-ER binding)

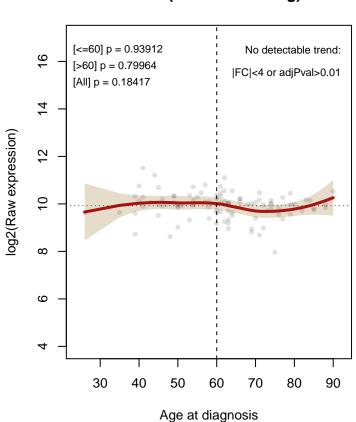


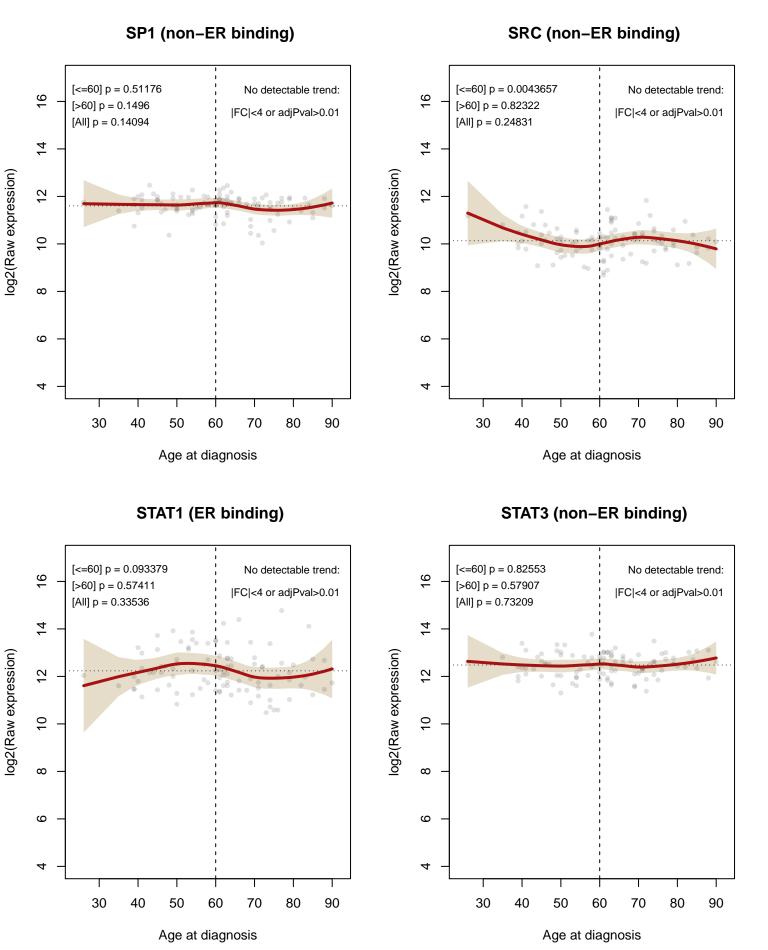


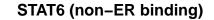
SOS1 (non-ER binding)

SOS2 (non-ER binding)

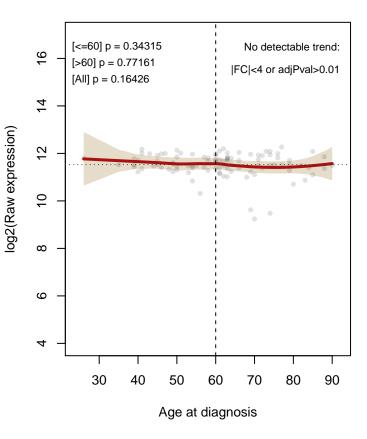


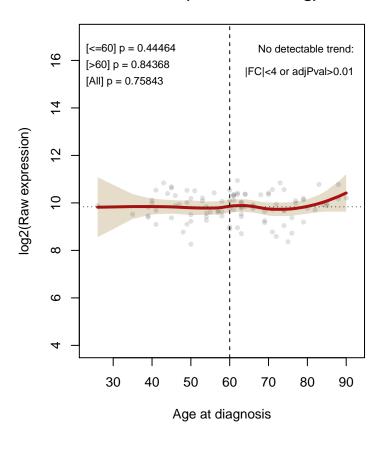






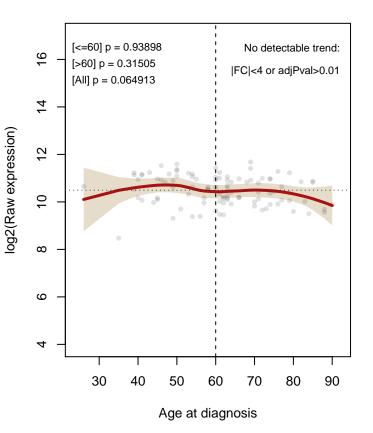
SUZ12 (non-ER binding)

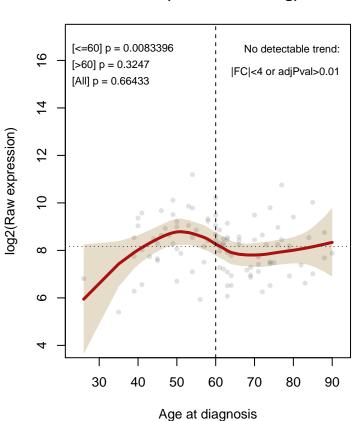




TCF3 (non-ER binding)

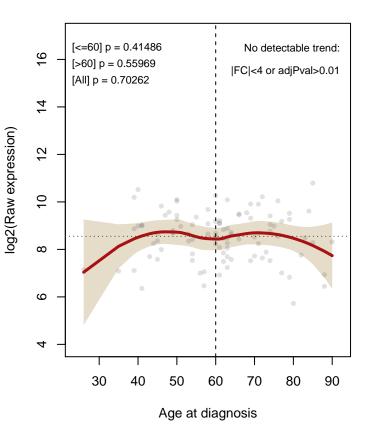
TCF7 (non-ER binding)

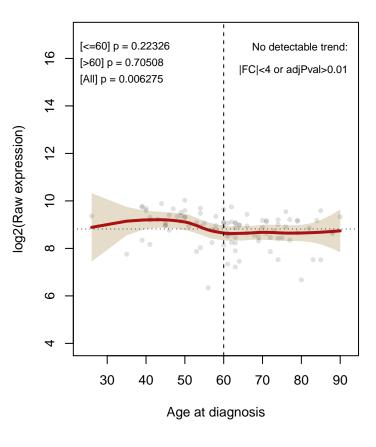






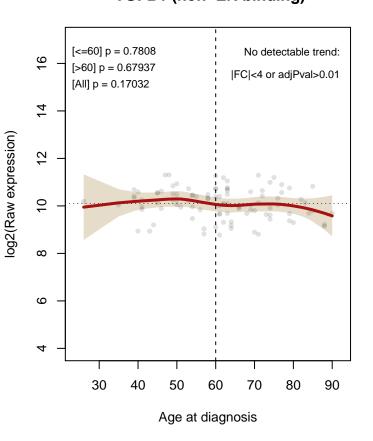
TCF7L2 (non-ER binding)

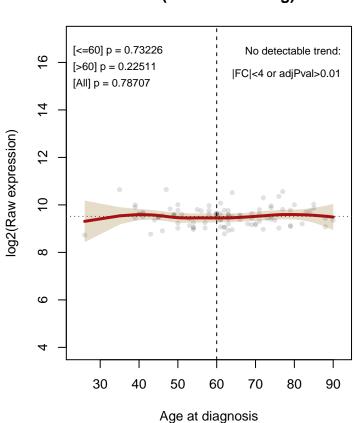


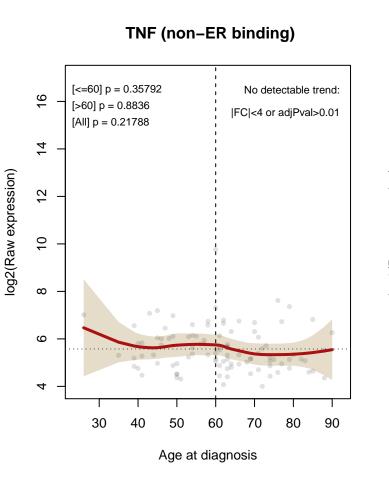


TGFB1 (non-ER binding)

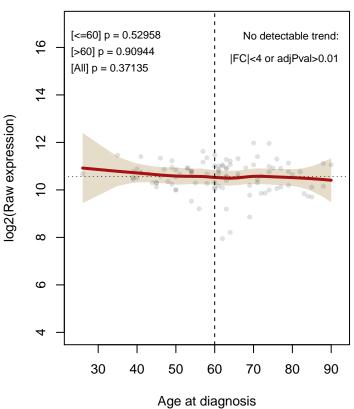
TK2 (non-ER binding)



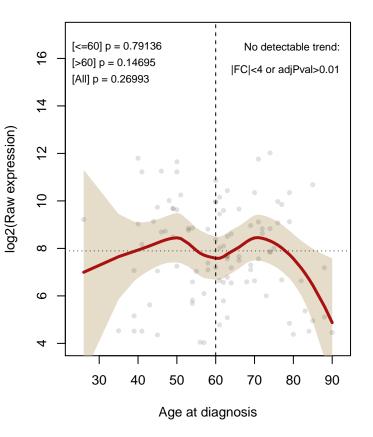




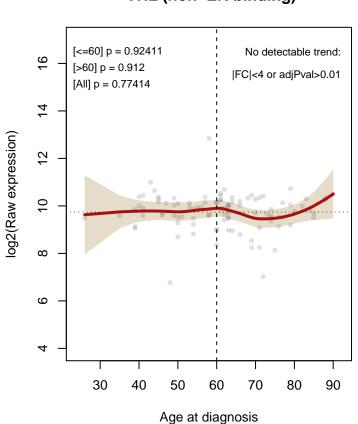
TP53 (non-ER binding)



TRIM29 (non-ER binding)



VHL (non-ER binding)





[<=60] p = 0.76576

[>60] p = 0.65859

[All] p = 0.12963

30

40

50

16

4

12

19

 ∞

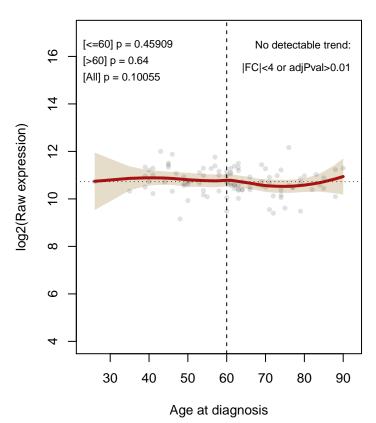
9

log2(Raw expression)

No detectable trend:

|FC|<4 or adjPval>0.01

WHSC1 (non-ER binding)



WNT1 (non-ER binding)

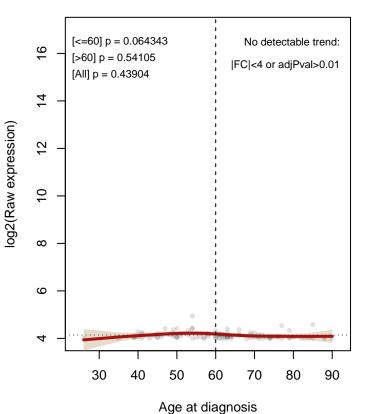
Age at diagnosis

60

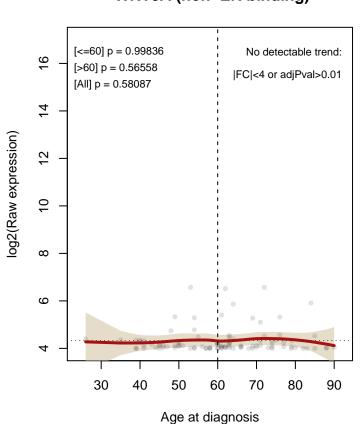
70

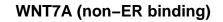
80

90

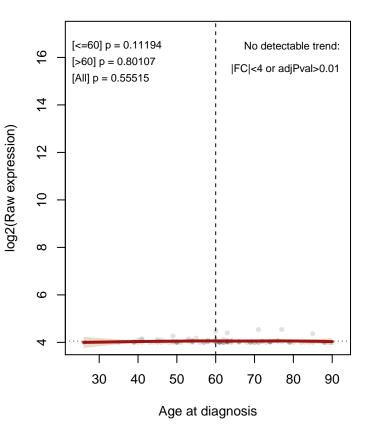


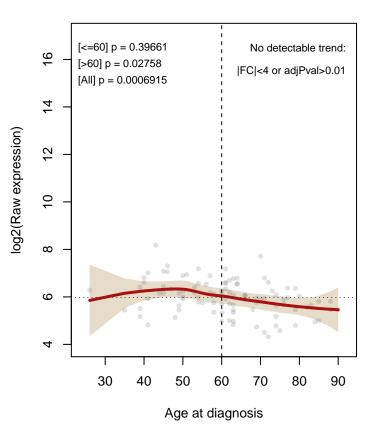
WNT3A (non-ER binding)





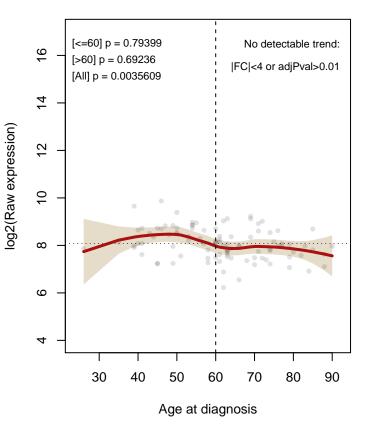
XRCC2 (non-ER binding)

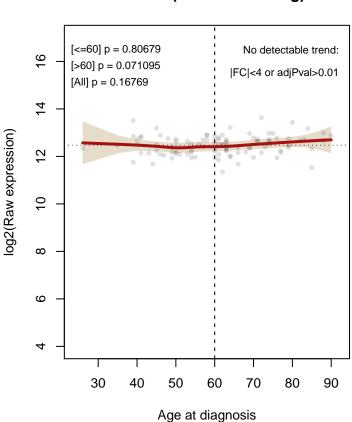




XRCC3 (non-ER binding)

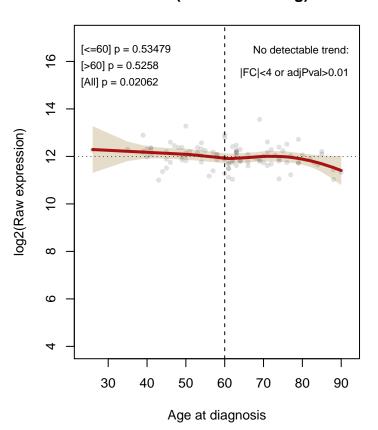
XRCC6 (non-ER binding)





YAF2 (non-ER binding)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

