

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.95059No detectable trend: [<=60] p = 0.081327No detectable trend: 16 16 [>60] p = 0.23858 [>60] p = 0.020754 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.34684[All] p = 0.224864 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.32116No detectable trend: [<=60] p = 0.027876 No detectable trend: 16 16 [>60] p = 0.031628 [>60] p = 0.13071 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.22121[All] p = 0.737734 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

60

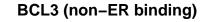
Age at diagnosis

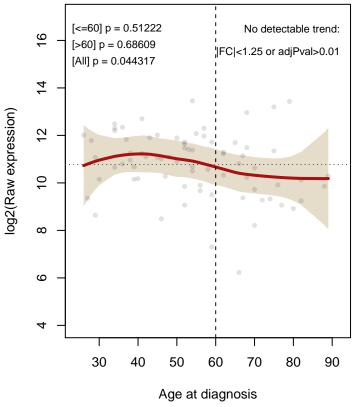
70

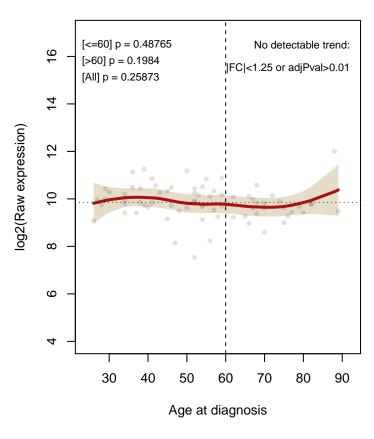
80

90

BCL2 (non–ER binding)

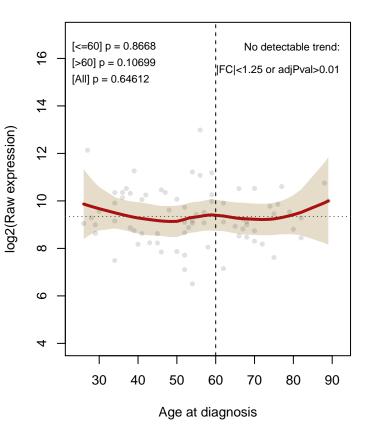


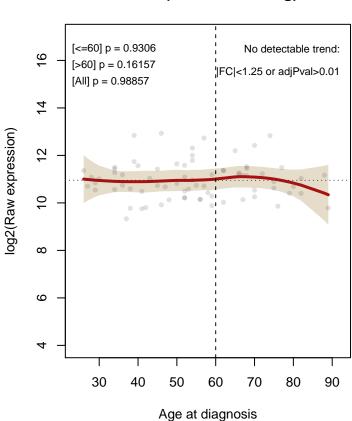




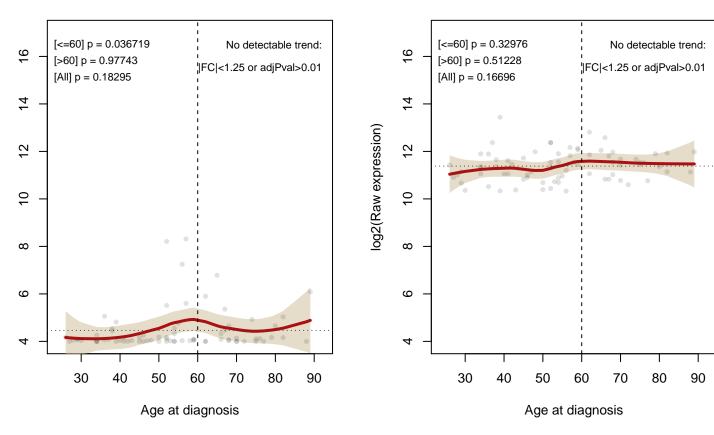
BIRC5 (non-ER binding)

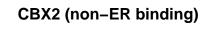
BMI1 (non-ER binding)



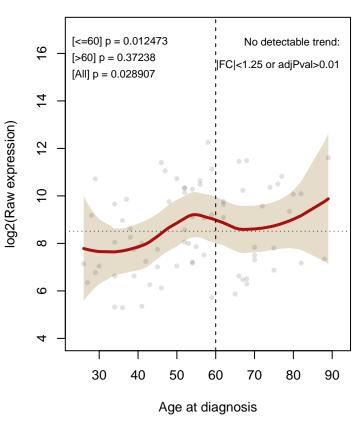


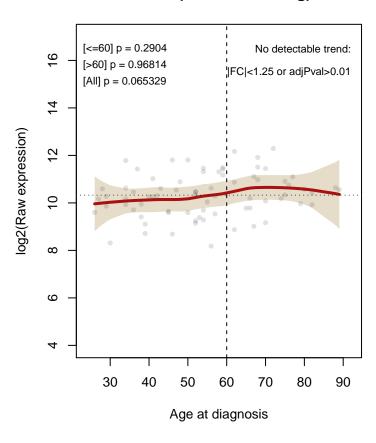
BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.004424No detectable trend: [<=60] p = 0.6606No detectable trend: 16 16 [>60] p = 0.51832 [>60] p = 0.4014 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.0015649[All] p = 0.472584 4 log2(Raw expression) log2(Raw expression) 12 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 CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.036719No detectable trend: [<=60] p = 0.3297616 16 [>60] p = 0.51228 [>60] p = 0.97743 FC|<1.25 or adjPval>0.01 [All] p = 0.18295[All] p = 0.166964 4 log2(Raw expression)





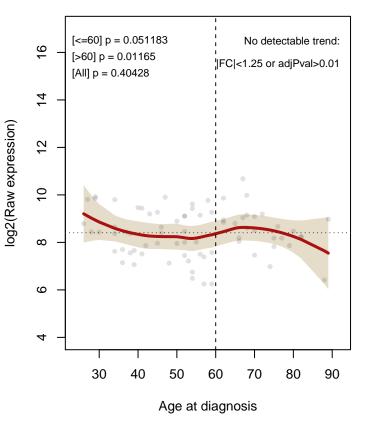
CBX4 (non-ER binding)

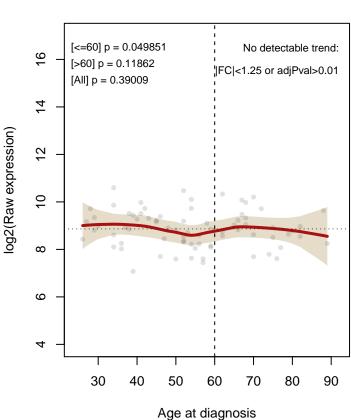


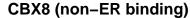


CBX6 (non-ER binding)

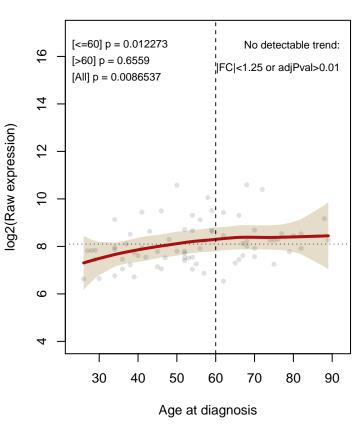
CBX7 (non-ER binding)

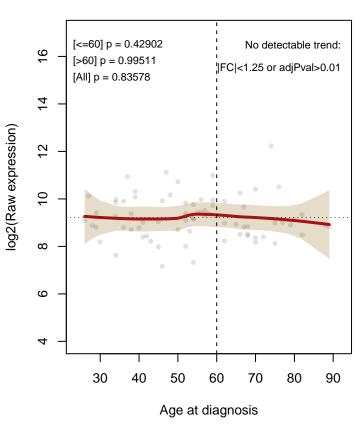






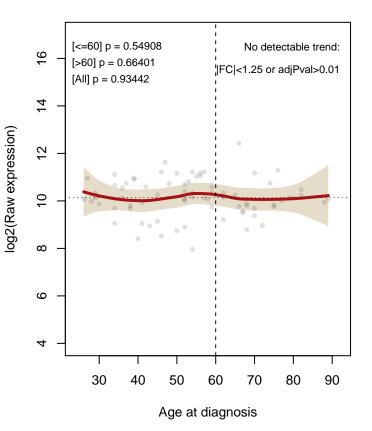
CCNA2 (non-ER binding)

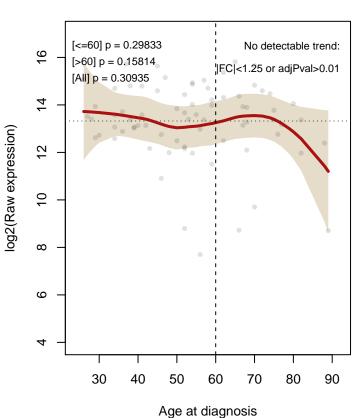


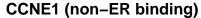


CCNB1 (non-ER binding)

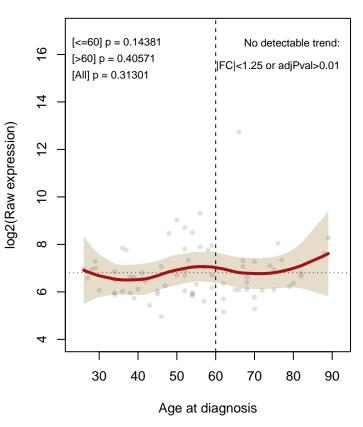
CCND1 (ER binding)

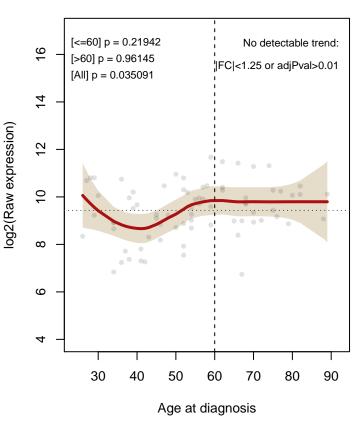






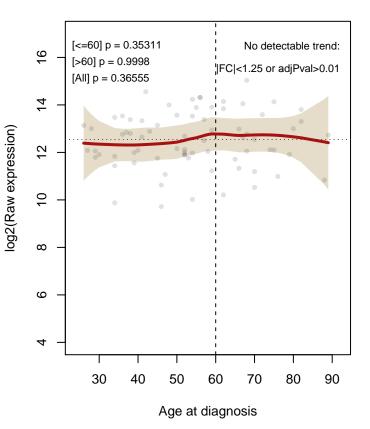
CD163 (non-ER binding)

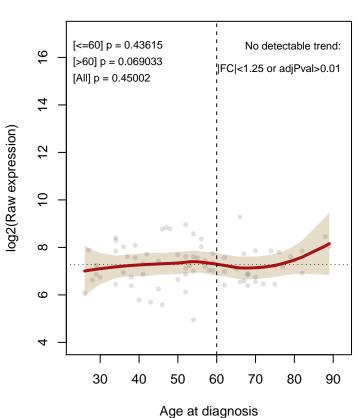


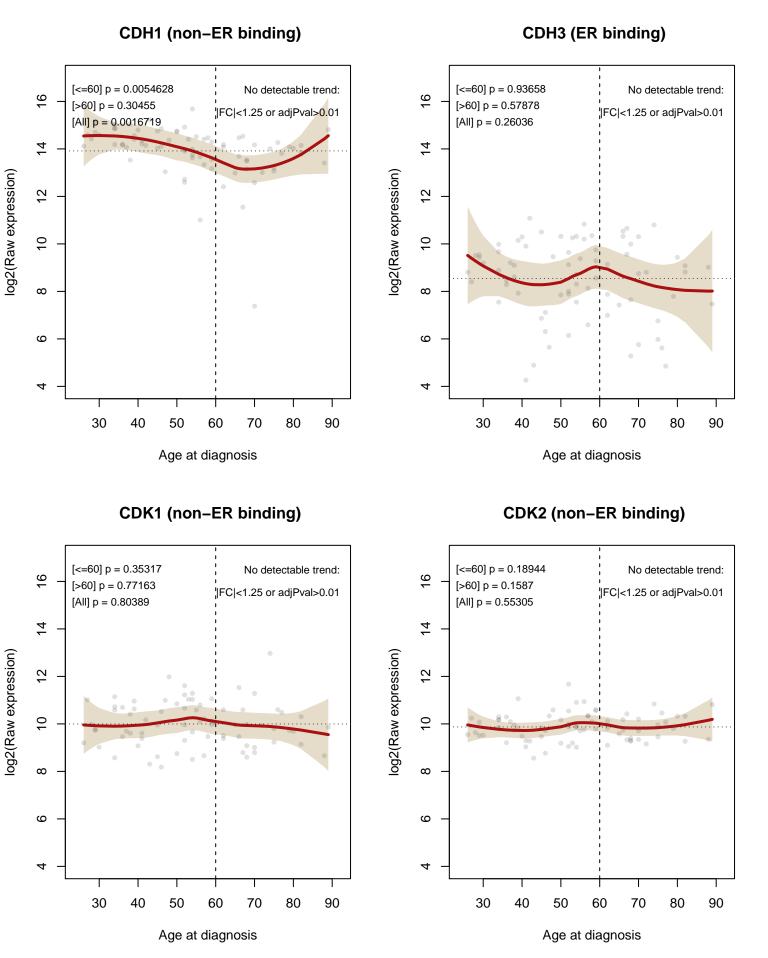


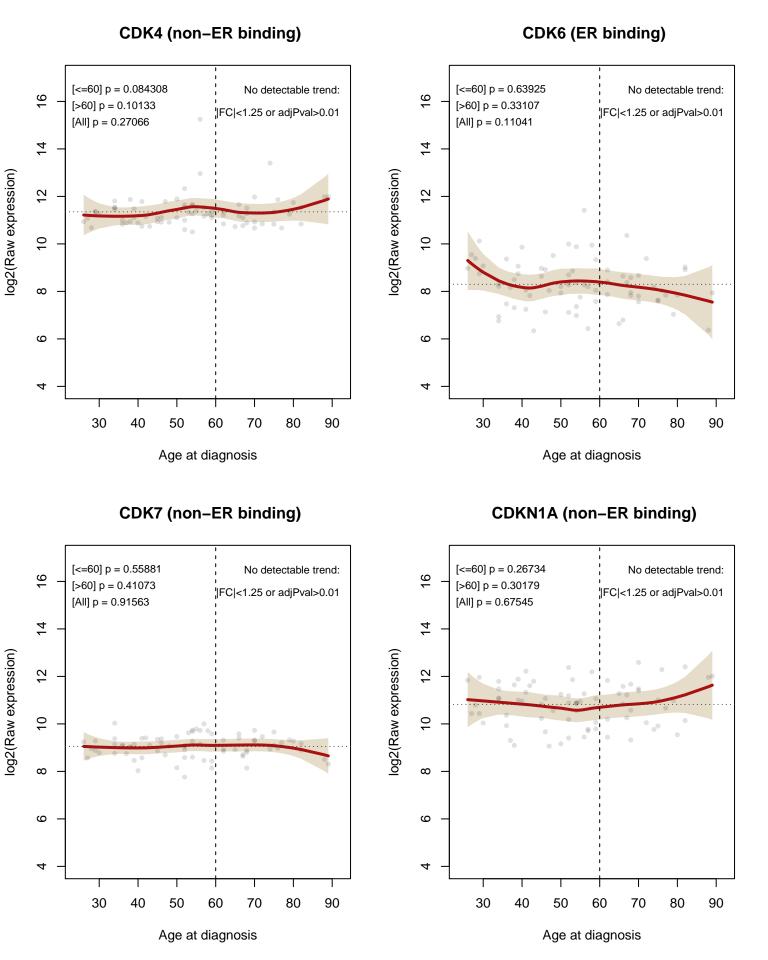
CD44 (non-ER binding)

CDC25C (non-ER binding)

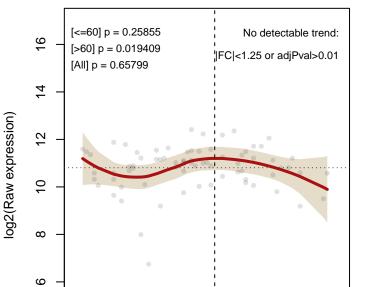




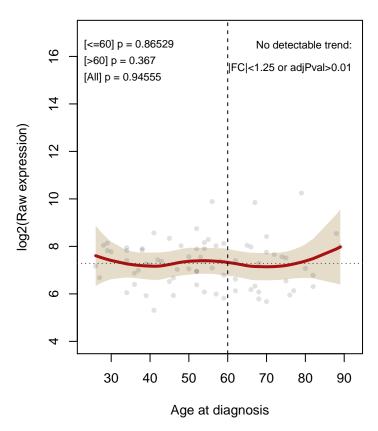




CDKN1B (non-ER binding)



CDKN1C (non-ER binding)



CDKN2A (non-ER binding)

Age at diagnosis

60

70

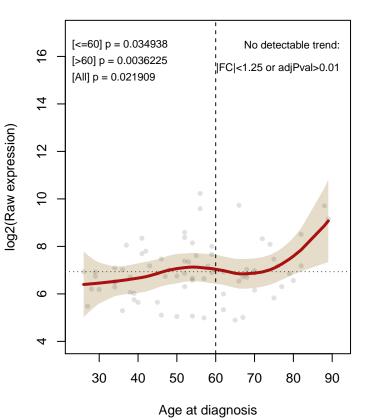
80

90

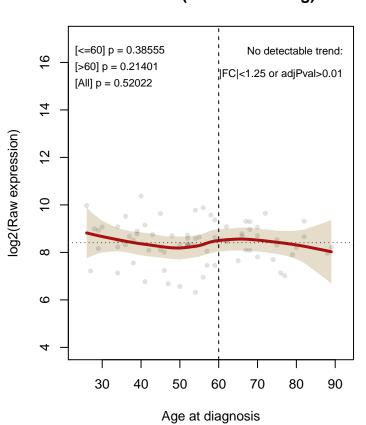
30

40

50

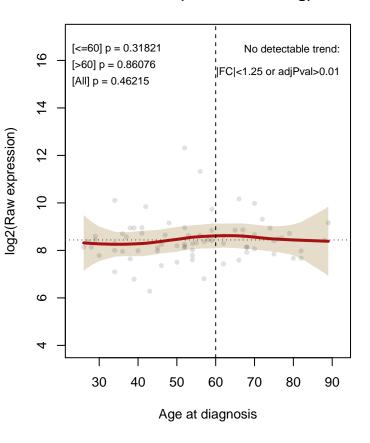


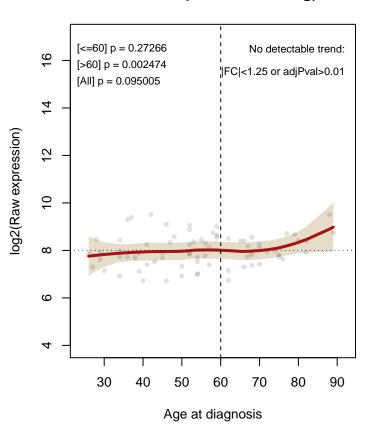
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

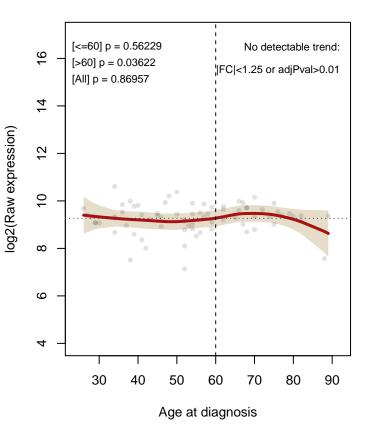
CDKN2D (non-ER binding)

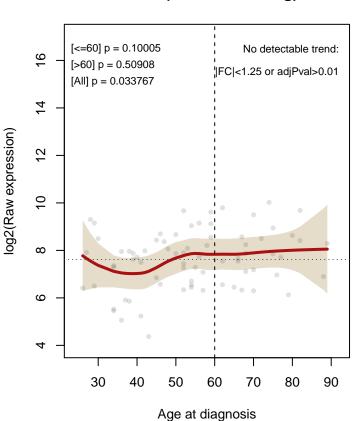




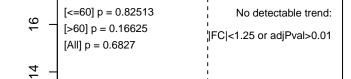
CHUK (non-ER binding)

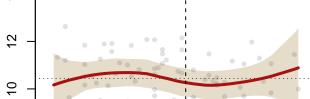
CIITA (non-ER binding)



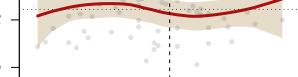


CLDN3 (non-ER binding)





log2(Raw expression)





50

30

40

Age at diagnosis

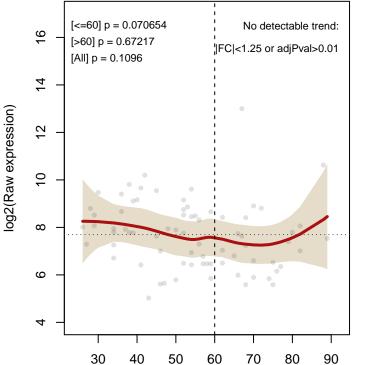
60

70

80

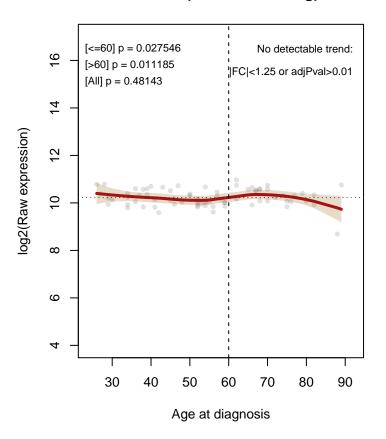
90

CRYAB (non-ER binding)

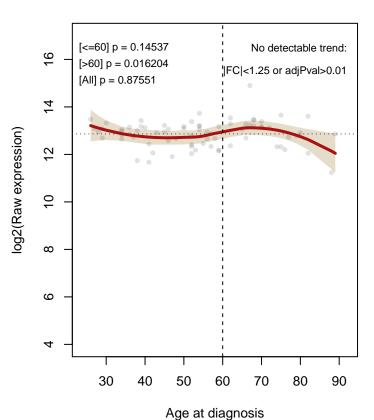


Age at diagnosis

CREB1 (non-ER binding)

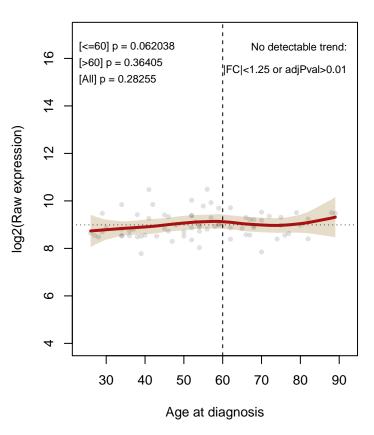


CTNNB1 (non-ER binding)



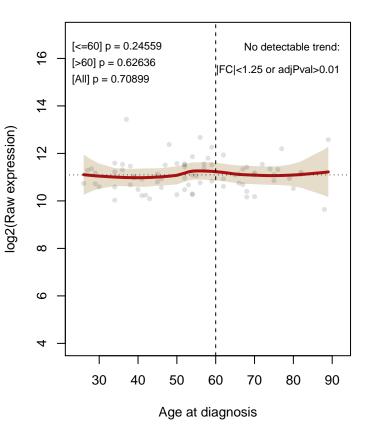
DLC1 (ER binding) [<=60] p = 0.003966No detectable trend: 16 [>60] p = 0.92683 FC|<1.25 or adjPval>0.01 [AII] p = 0.000593464 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

DMAP1 (non-ER binding)

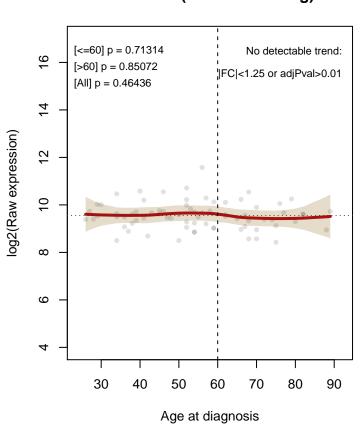


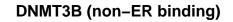
DNMT1 (non-ER binding)

Age at diagnosis

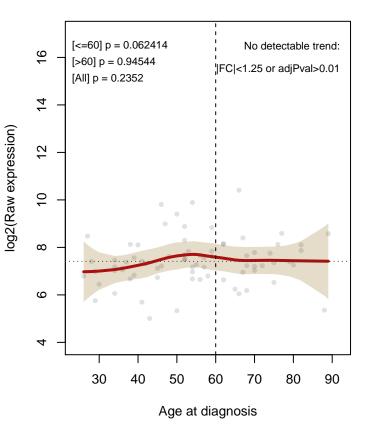


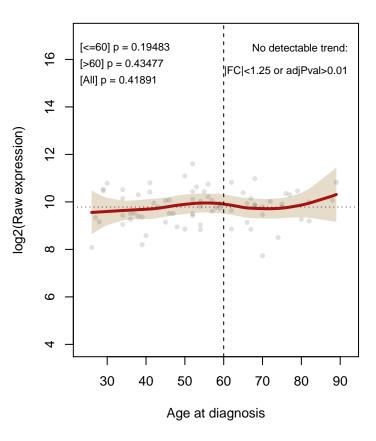
DNMT3A (non-ER binding)





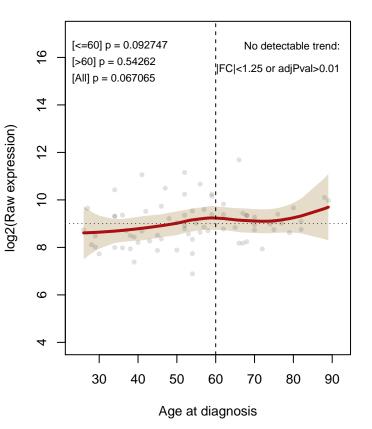
DVL1 (non-ER binding)

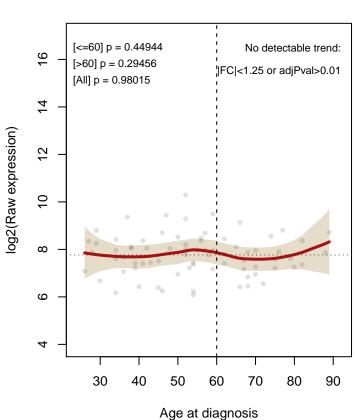


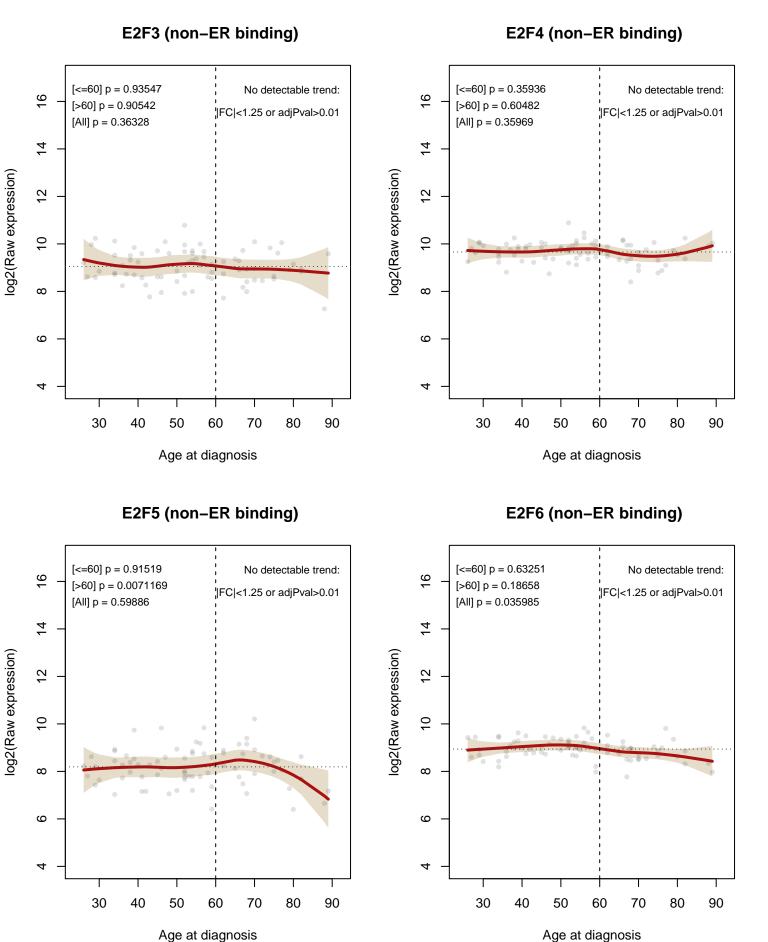


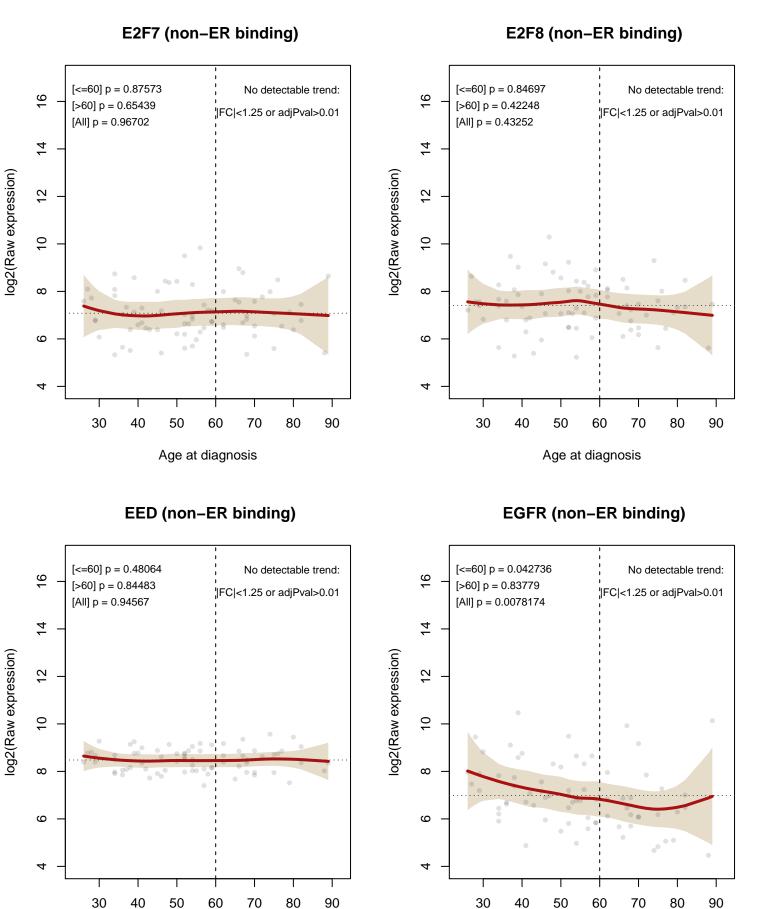
E2F1 (non-ER binding)

E2F2 (non-ER binding)







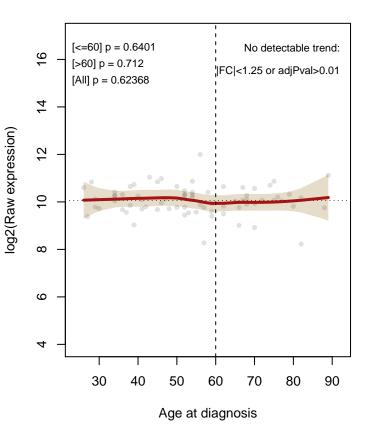


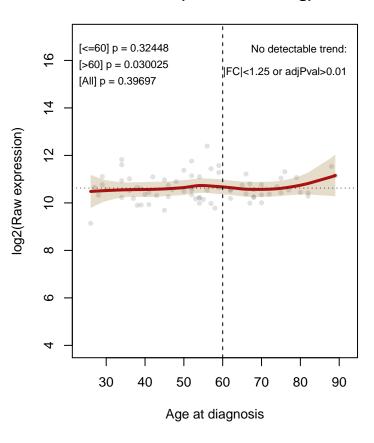
Age at diagnosis

Age at diagnosis



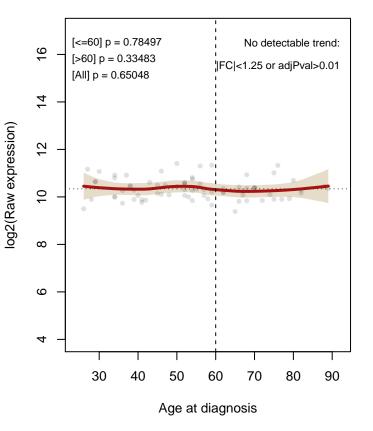
EHMT2 (non-ER binding)

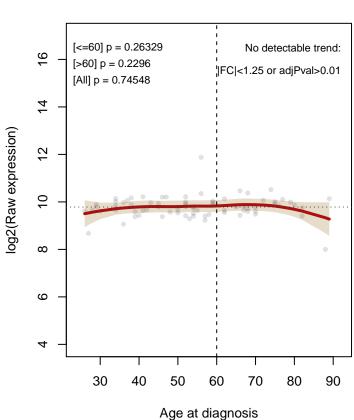


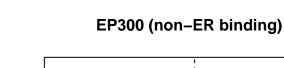


ELAC2 (non-ER binding)

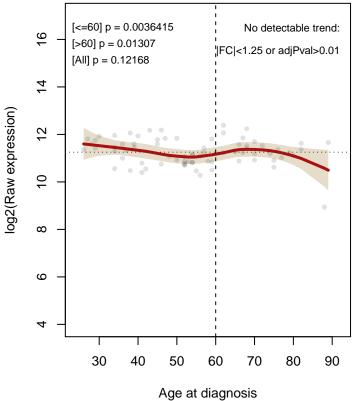
ELK1 (non-ER binding)

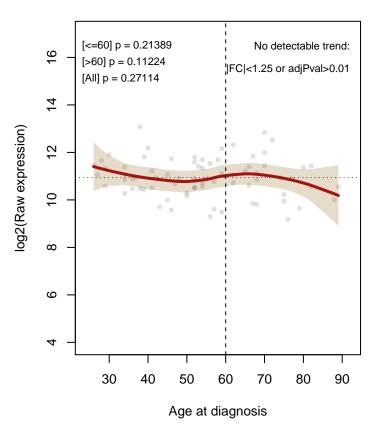






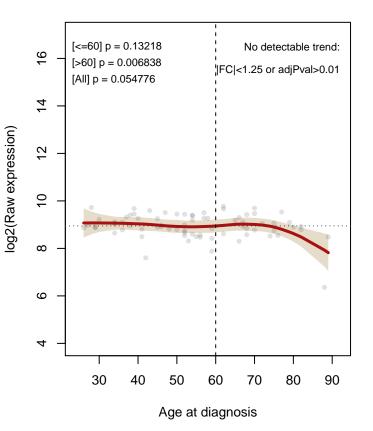
EPAS1 (non-ER binding)

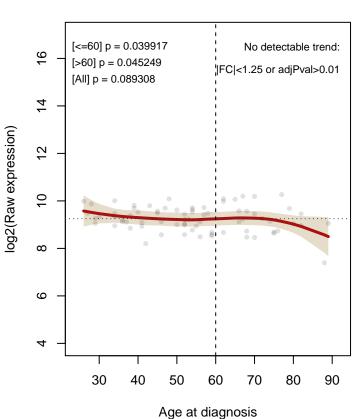




EPC1 (non-ER binding)

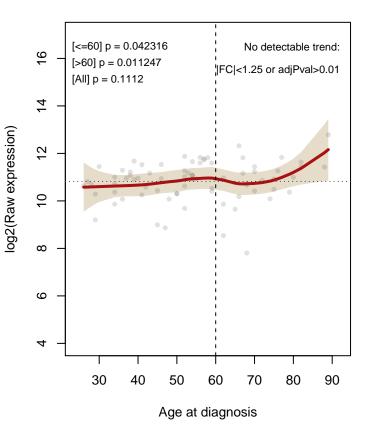
EPC2 (non-ER binding)

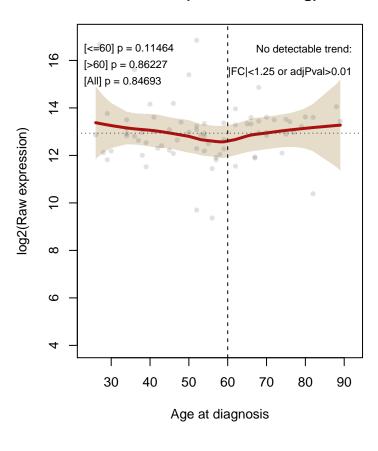






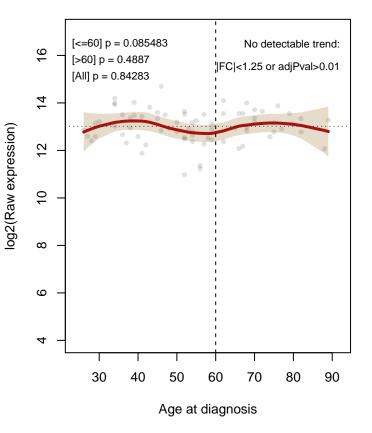
ERBB2 (non-ER binding)

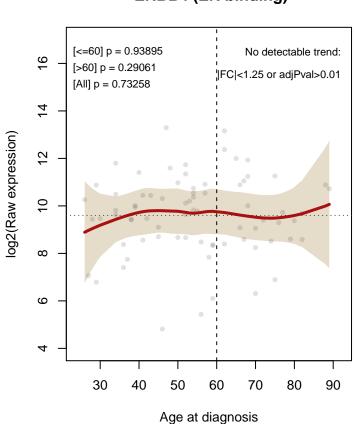


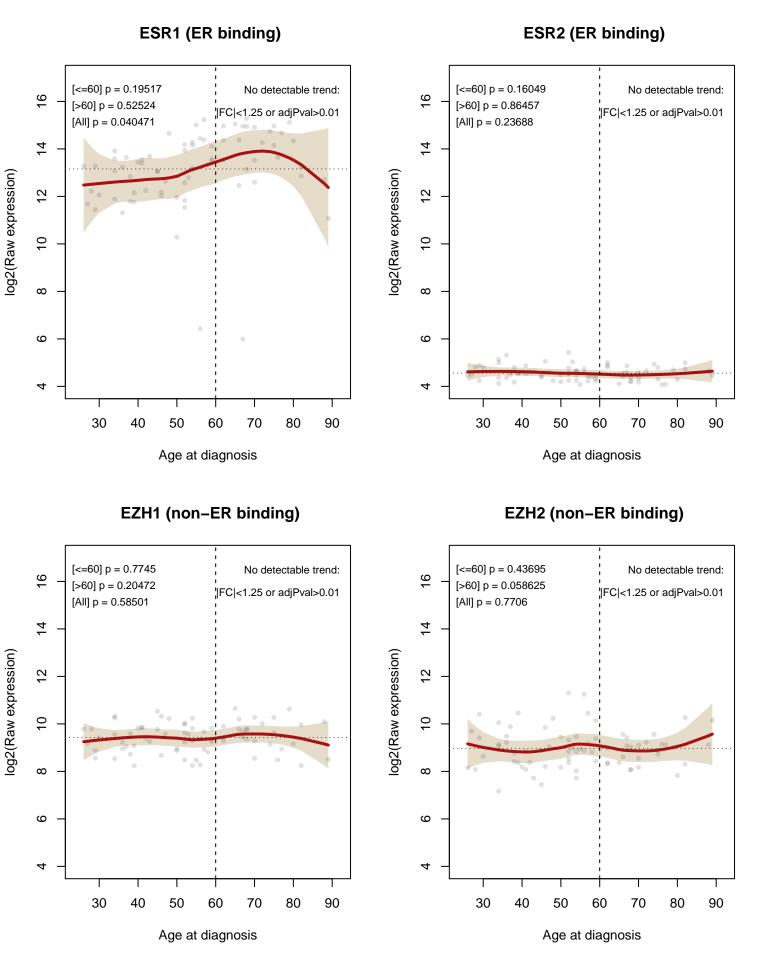


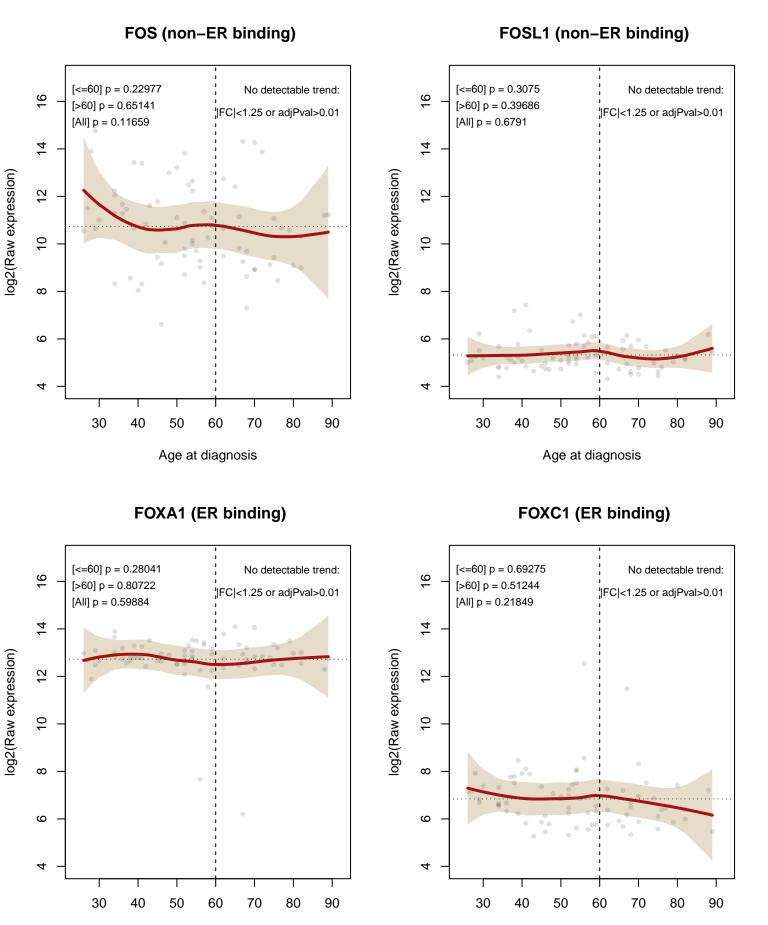
ERBB3 (non-ER binding)

ERBB4 (ER binding)



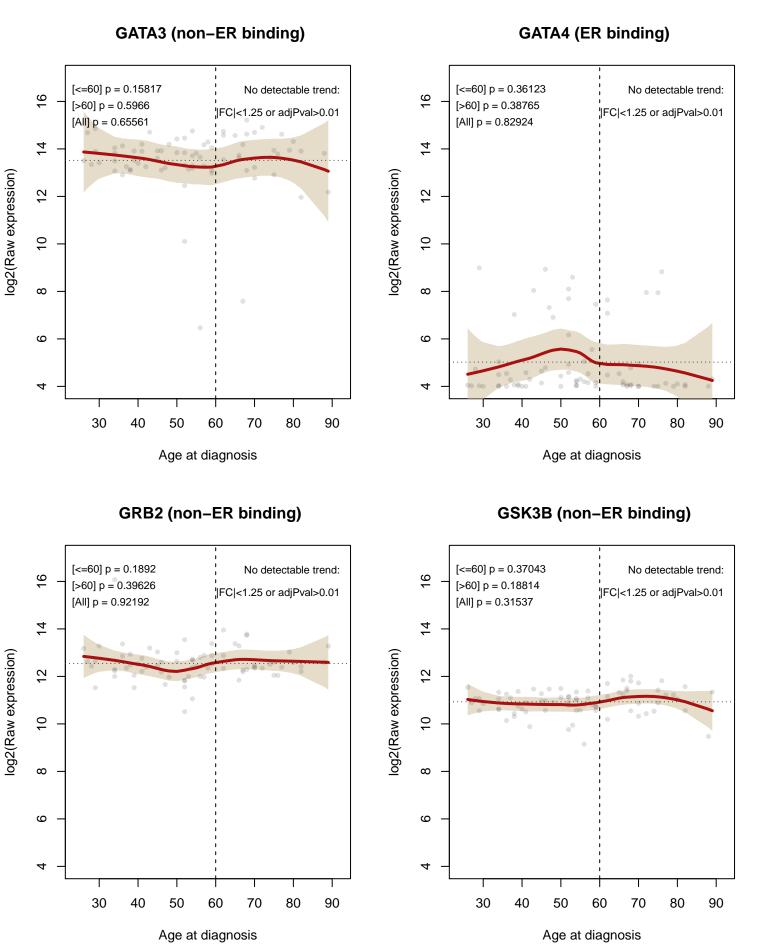


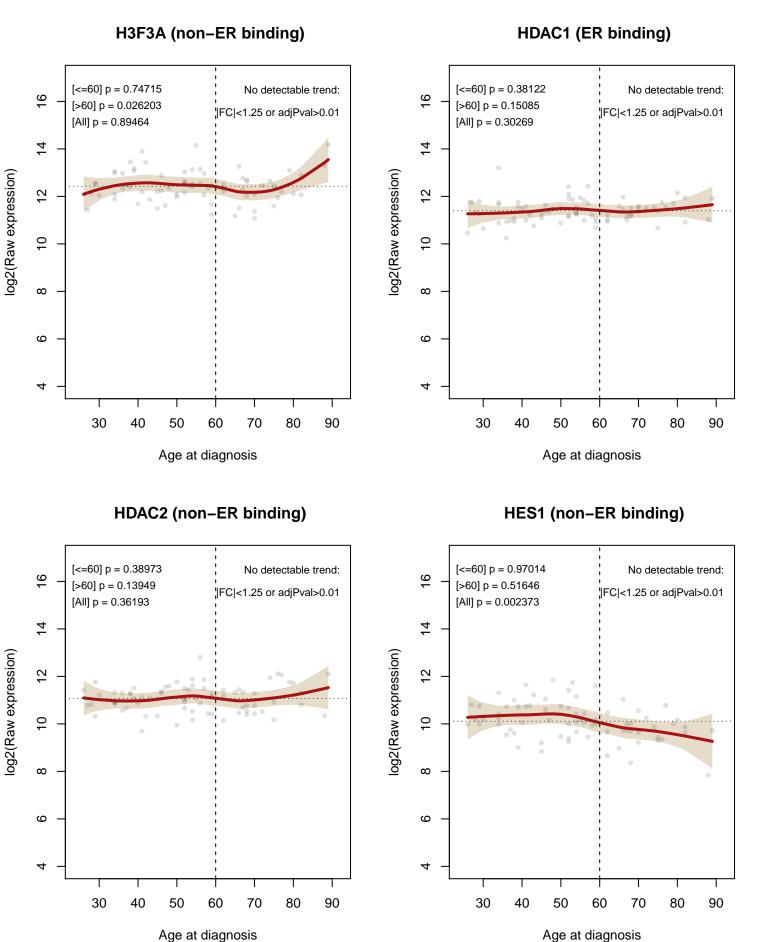


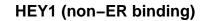


Age at diagnosis

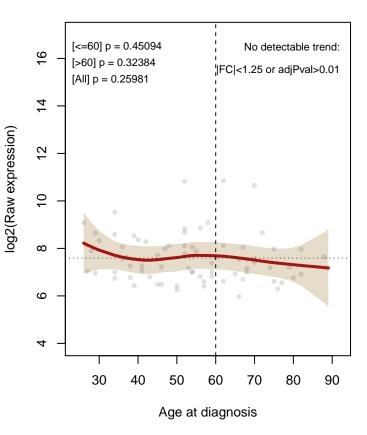
Age at diagnosis

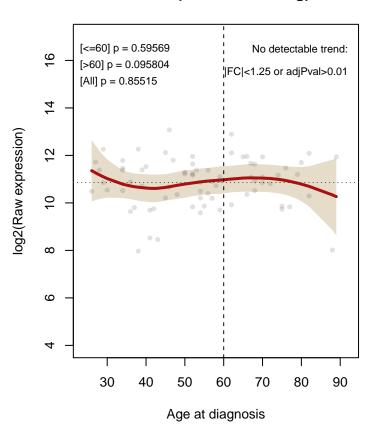






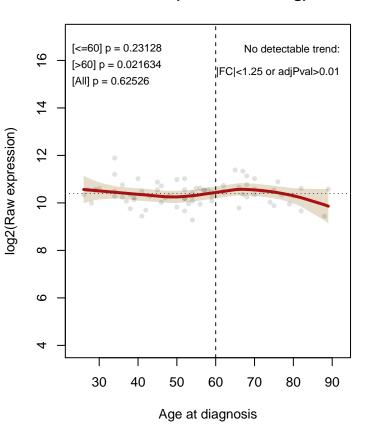
HIF1A (non-ER binding)

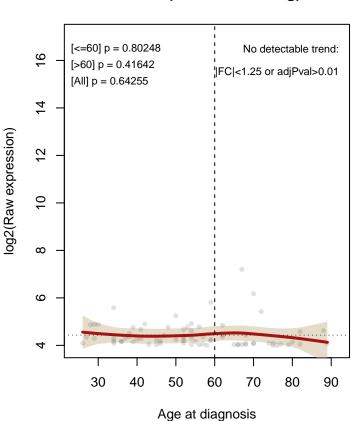




HIF1AN (non-ER binding)

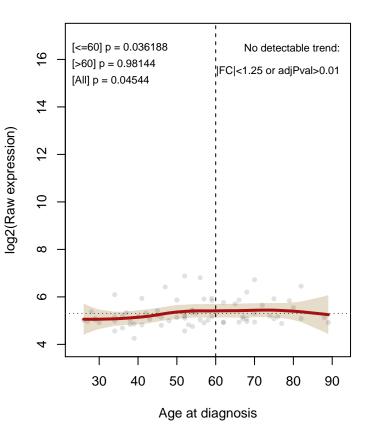
HIF3A (non-ER binding)

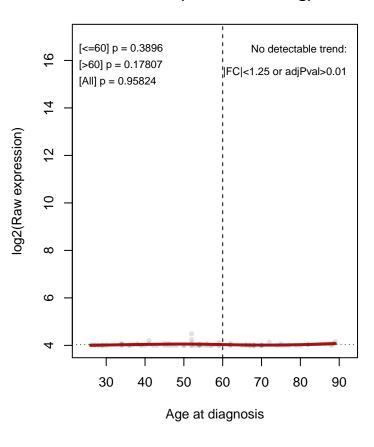




HNF1A (non-ER binding)

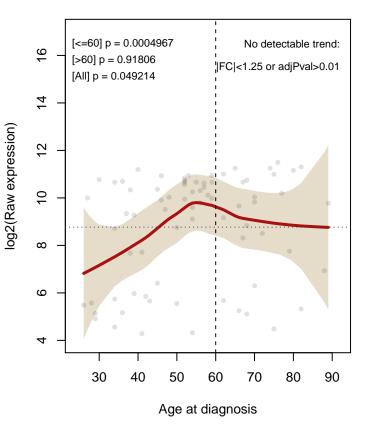
HNF1B (non-ER binding)

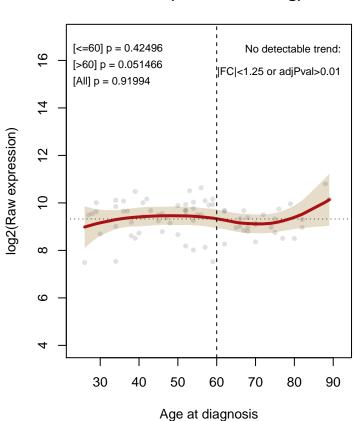




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.12231 No detectable trend: [<=60] p = 0.60543No detectable trend: 16 16 [>60] p = 0.016117 [>60] p = 0.12102 |FC|<1.25 or adjPval>0.01 FC|<1.25 or adjPval>0.01 [AII] p = 0.377[All] p = 0.817754 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.81499No detectable trend: [<=60] p = 0.81743No detectable trend: 16 16 [>60] p = 0.68584[>60] p = 0.88812 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.48957[All] p = 0.729564 4 log2(Raw expression) log2(Raw expression) 12 12 19 10

ω

9

30

40

50

60

Age at diagnosis

70

80

90

 ∞

9

30

40

50

60

Age at diagnosis

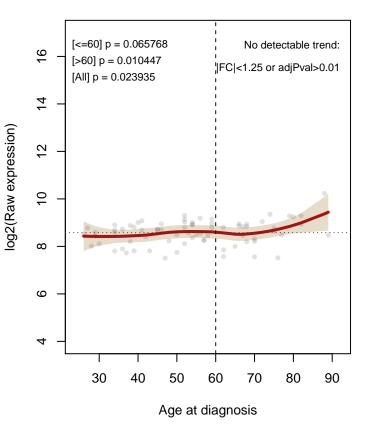
70

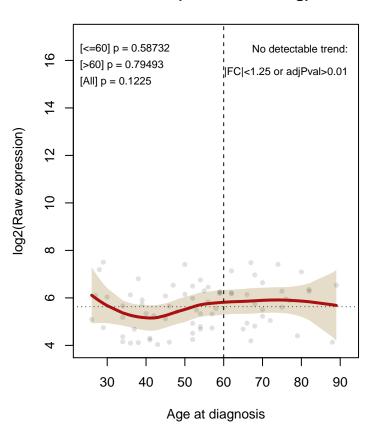
80

90



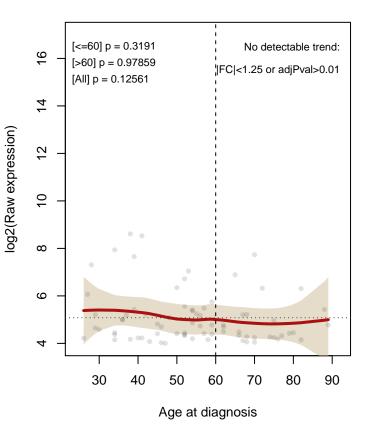
IL2RA (non-ER binding)

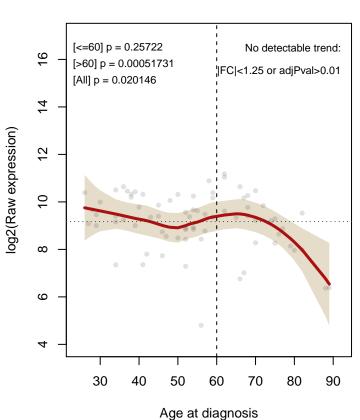


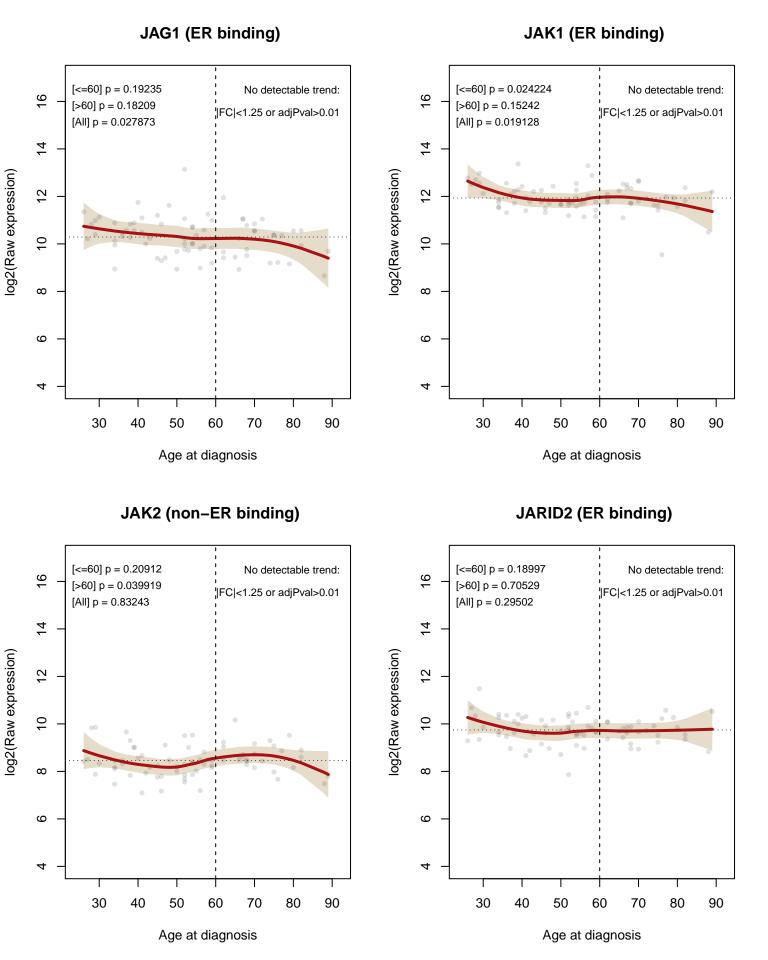


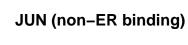
IL6 (non-ER binding)

INPP4B (non-ER binding)

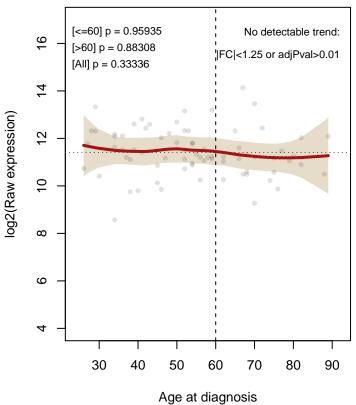


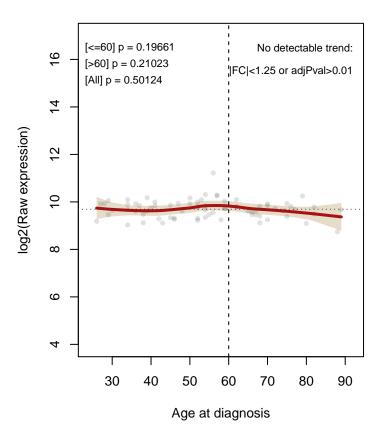






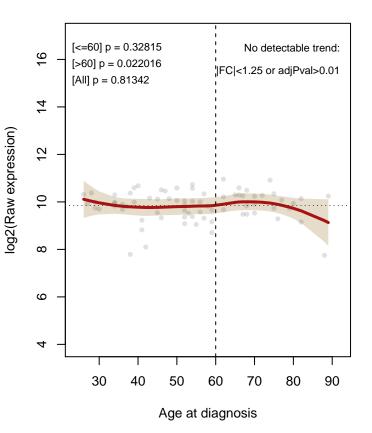
KDM2B (non-ER binding)

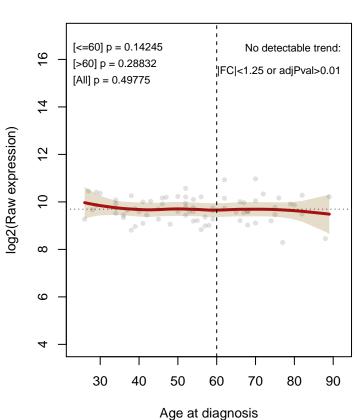




KDM6A (non-ER binding)

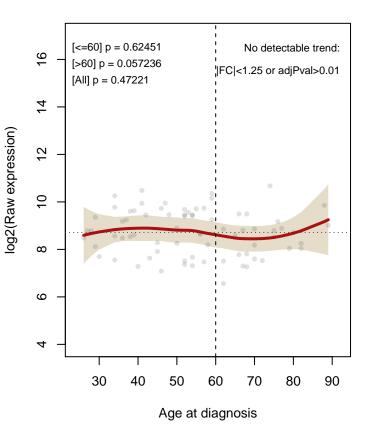
KDM6B (non-ER binding)

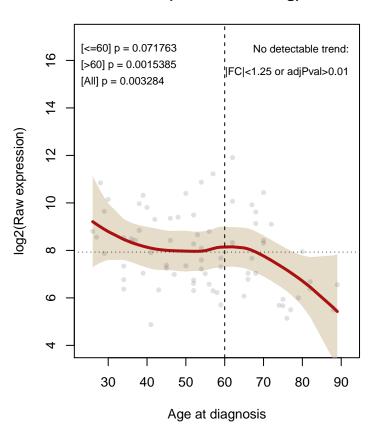






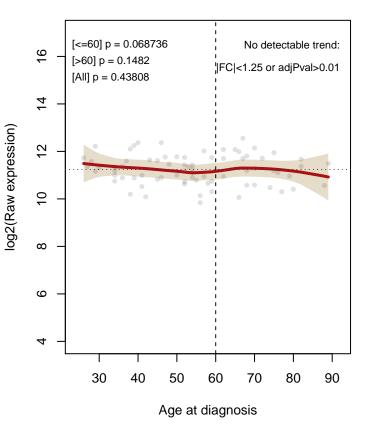
KIT (non-ER binding)

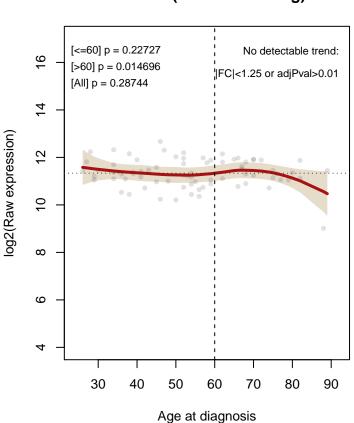


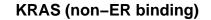


KMT2C (non-ER binding)

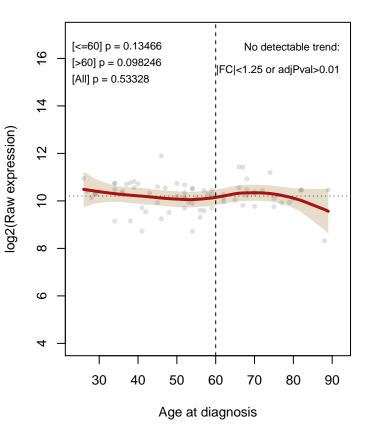
KMT2D (non-ER binding)

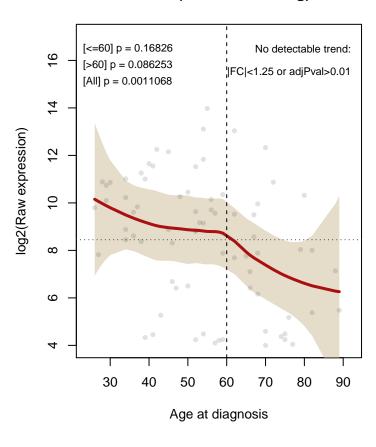






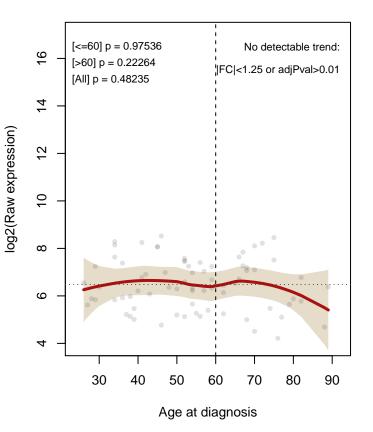
KRT5 (non-ER binding)

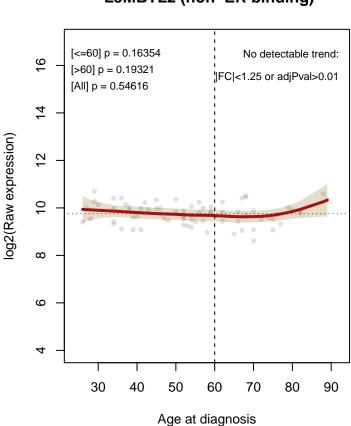




L3MBTL1 (non-ER binding)

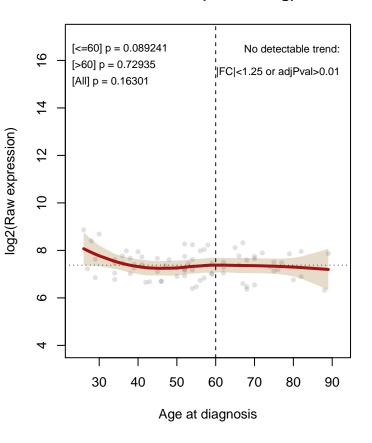
L3MBTL2 (non-ER binding)

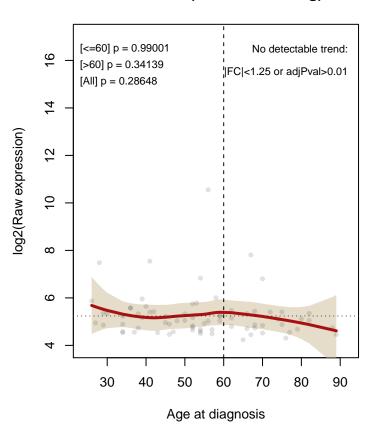




L3MBTL3 (ER binding)

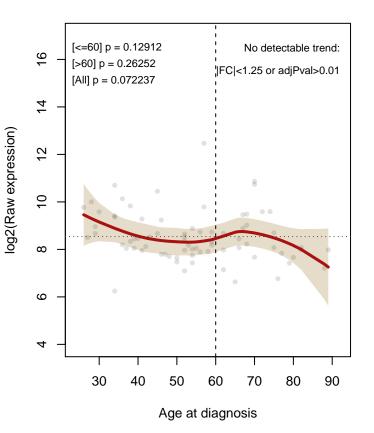
L3MBTL4 (non-ER binding)

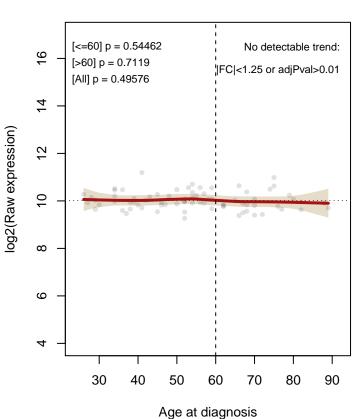




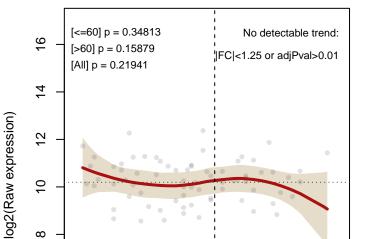
LEF1 (non-ER binding)

MAP2K1 (non-ER binding)



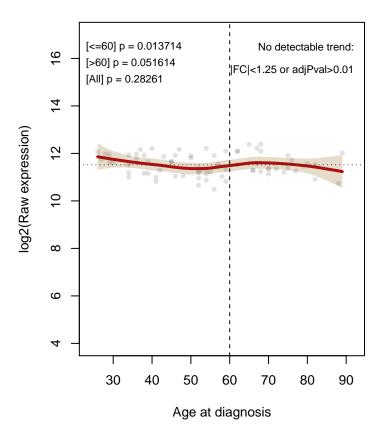






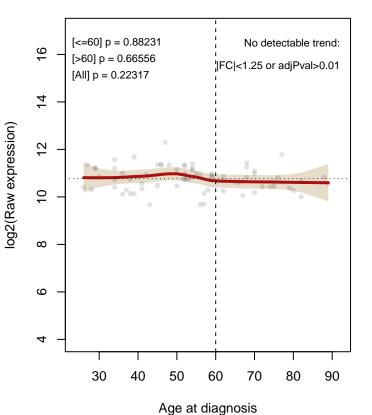
ω

MAPK1 (non-ER binding)

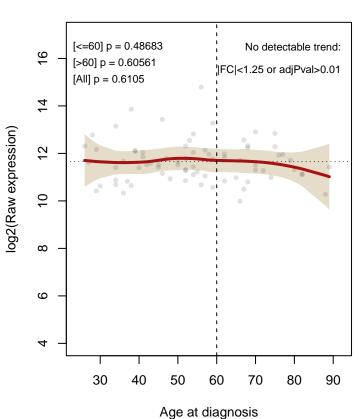


MAPK3 (non-ER binding)

Age at diagnosis

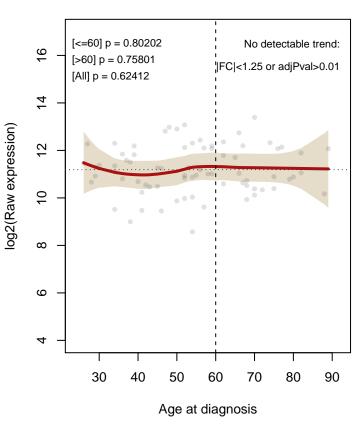


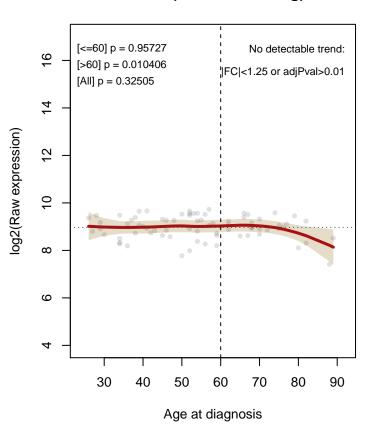
MDM2 (non-ER binding)





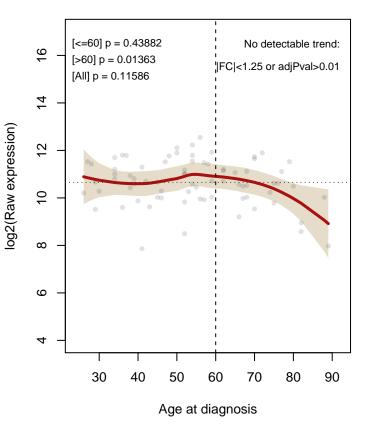
MTF2 (non-ER binding)

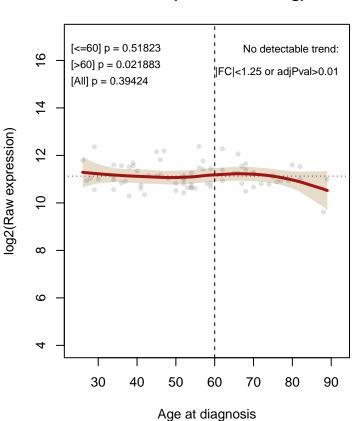




MYC (non-ER binding)

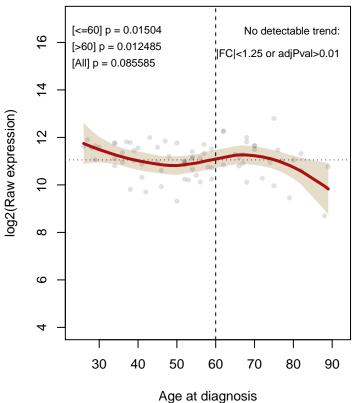
NCOA6 (non-ER binding)

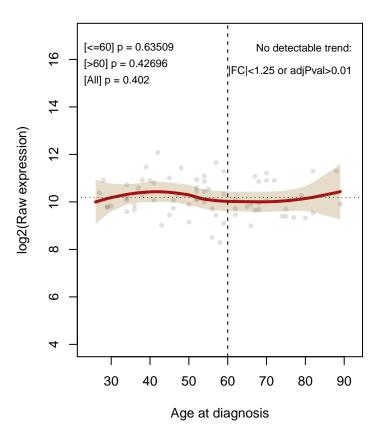






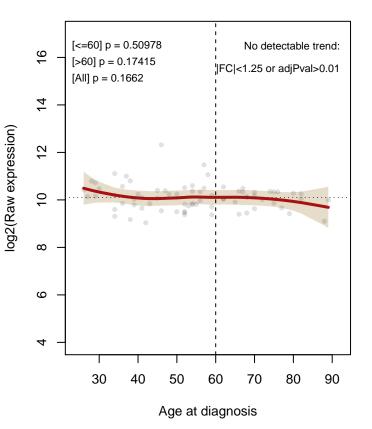
NES (non-ER binding)

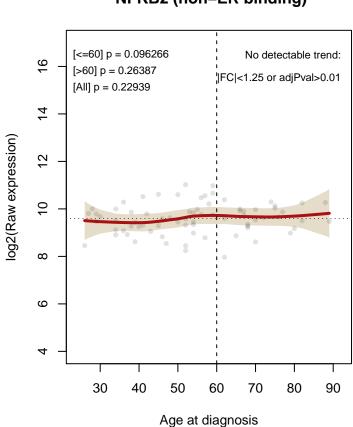




NFKB1 (non-ER binding)

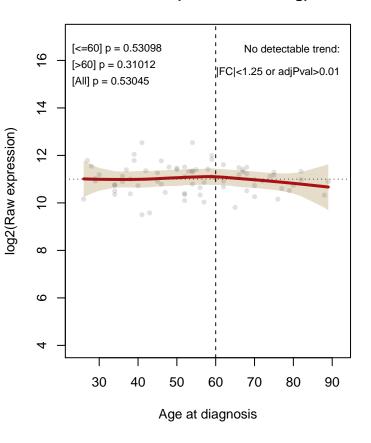
NFKB2 (non-ER binding)

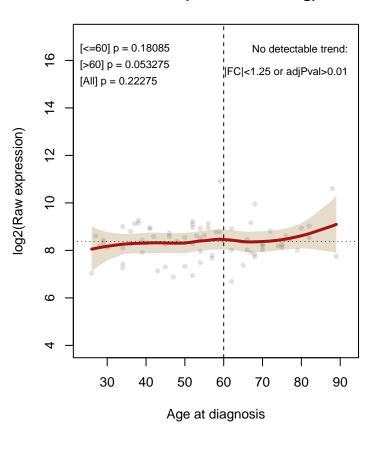




NFKBIA (non-ER binding)

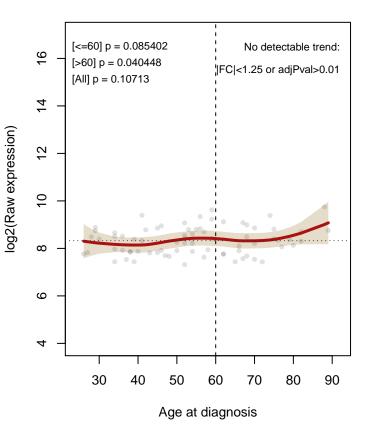
NFKBIB (non-ER binding)

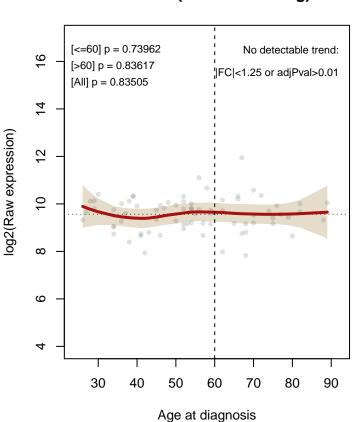




NFKBIE (non-ER binding)

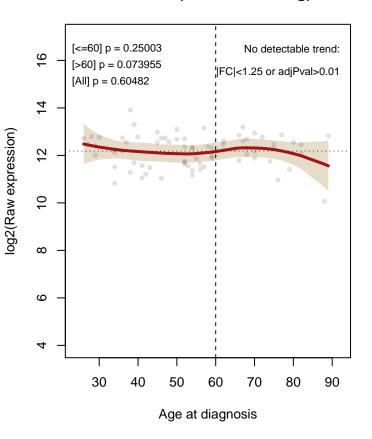
NOTCH1 (non-ER binding)

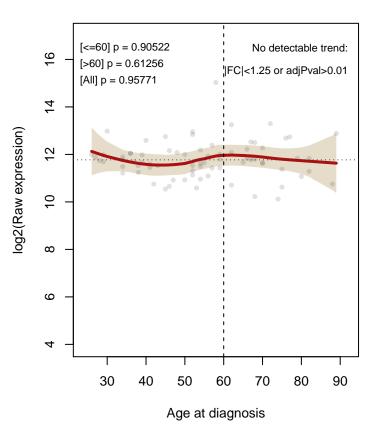




NOTCH2 (non-ER binding)

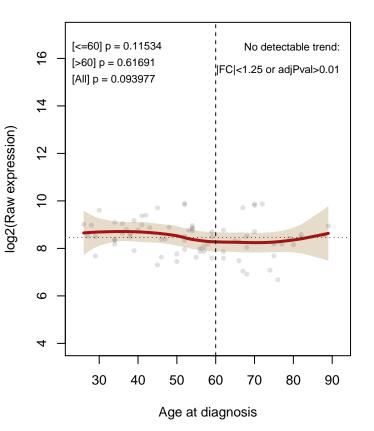
NOTCH3 (non-ER binding)

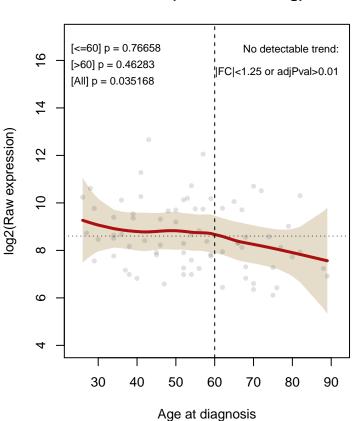


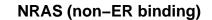


NOTCH4 (non-ER binding)

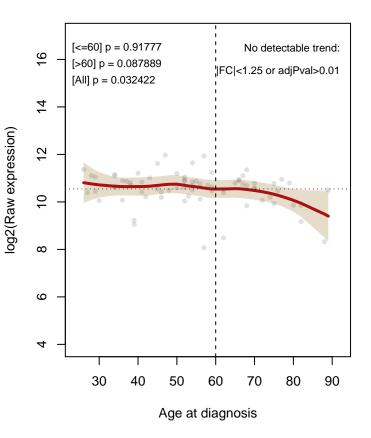
NR4A2 (non-ER binding)

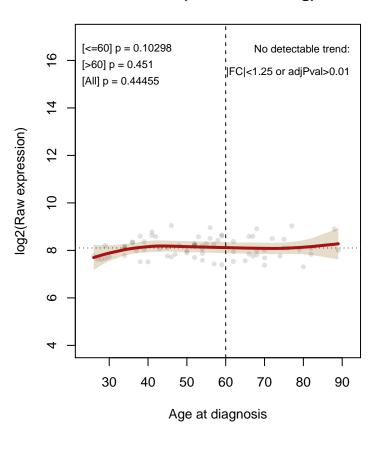






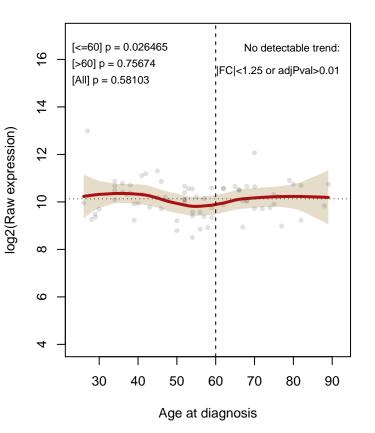
PCGF1 (non-ER binding)

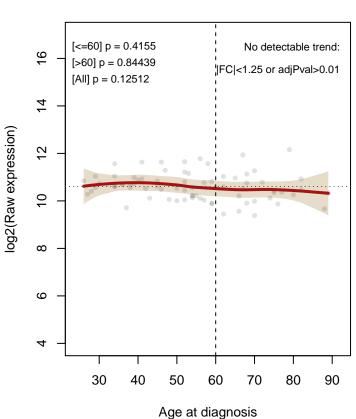




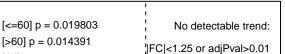
PCGF2 (non-ER binding)

PCGF3 (non-ER binding)





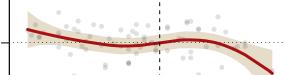






log2(Raw expression)

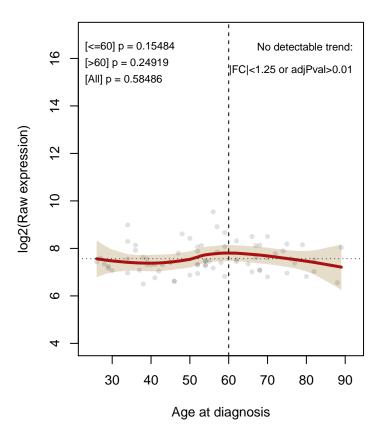
log2(Raw expression)



∞

Age at diagnosis

PCGF6 (non-ER binding)

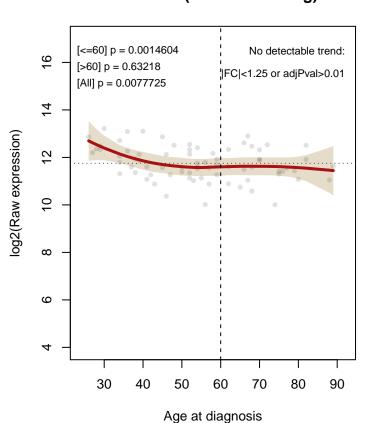


PDGFRA (non-ER binding)

[<=60] p = 0.062453No detectable trend: [>60] p = 0.43864 FC|<1.25 or adjPval>0.01 [All] p = 0.058468 ∞

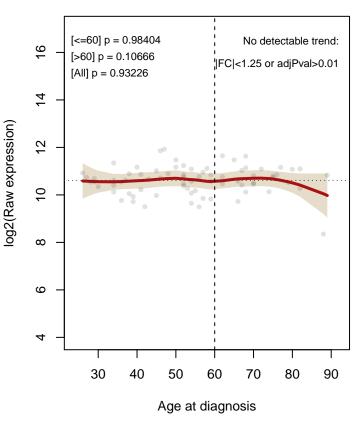
Age at diagnosis

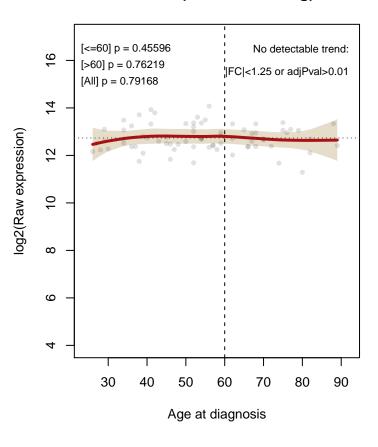
PDGFRB (non-ER binding)





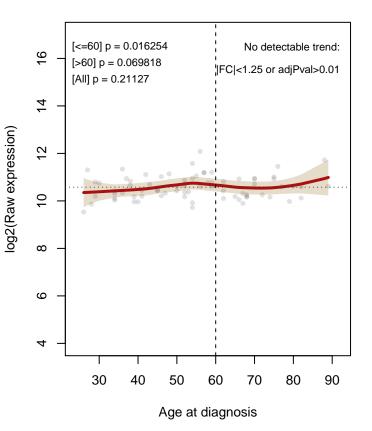
PEBP1 (non-ER binding)

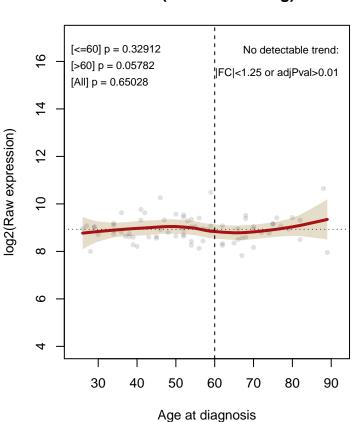


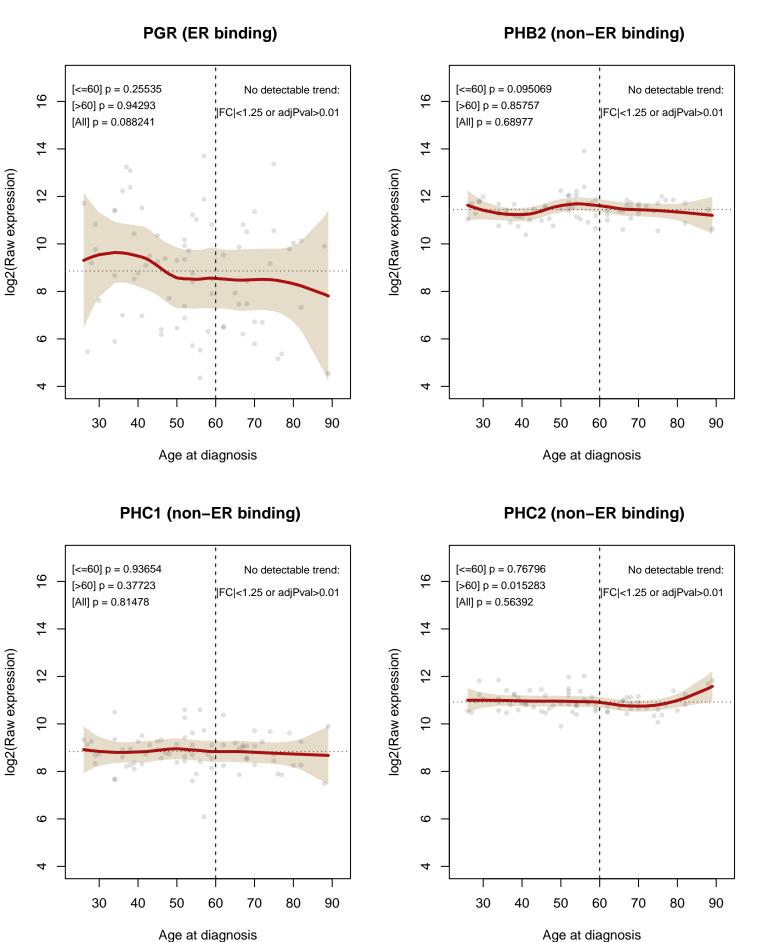


PELP1 (non-ER binding)

PGP (non-ER binding)

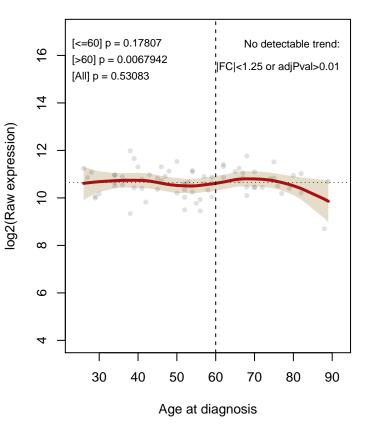


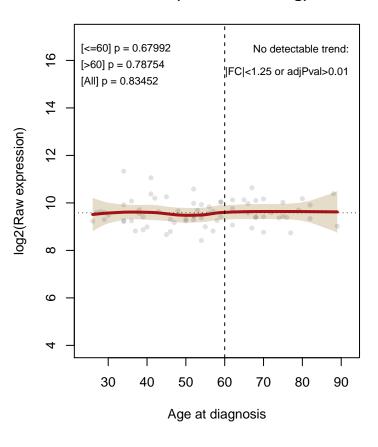






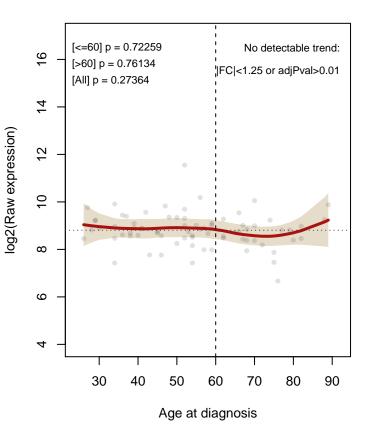
PHF1 (non-ER binding)

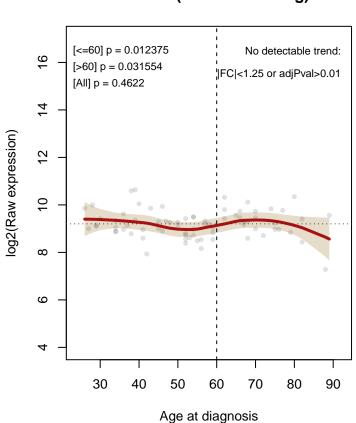




PHF19 (non-ER binding)

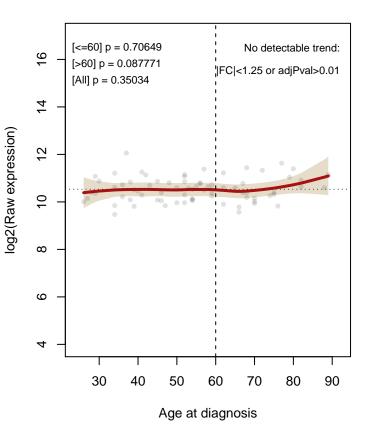
PIK3CA (non-ER binding)

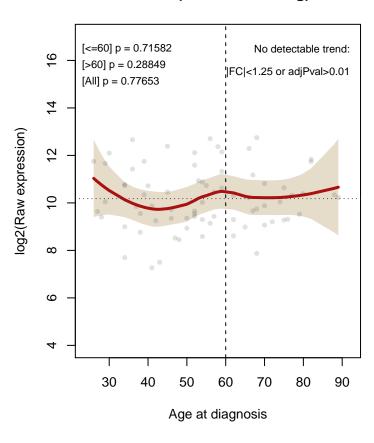






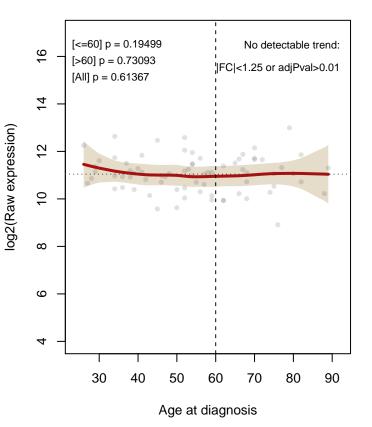
PLAU (non-ER binding)

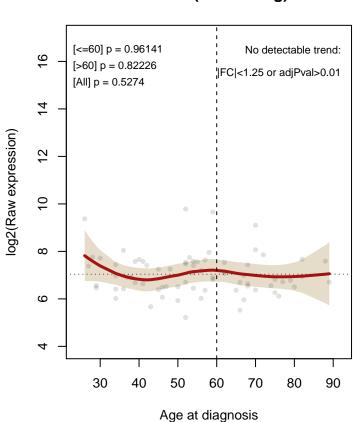


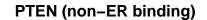


PODXL (non-ER binding)

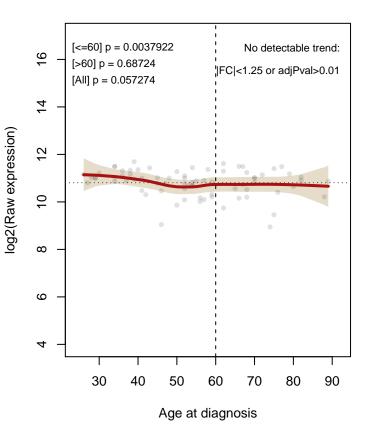
PPARG (ER binding)

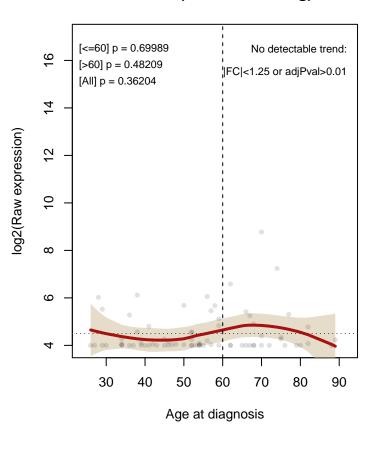






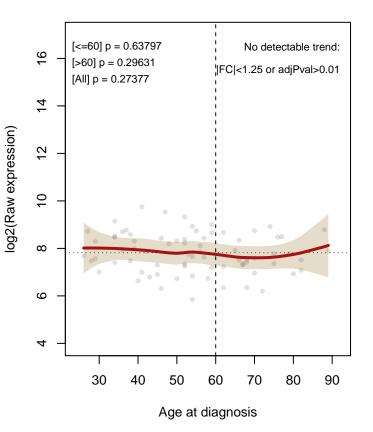
PYDC1 (non-ER binding)

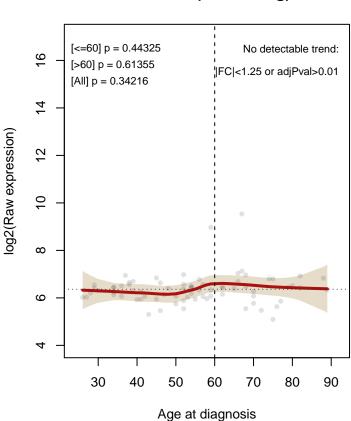




RAD51 (non-ER binding)

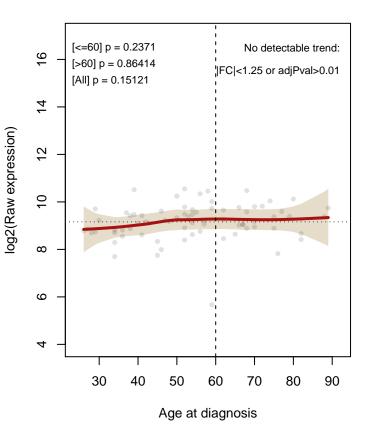
RAD51B (ER binding)

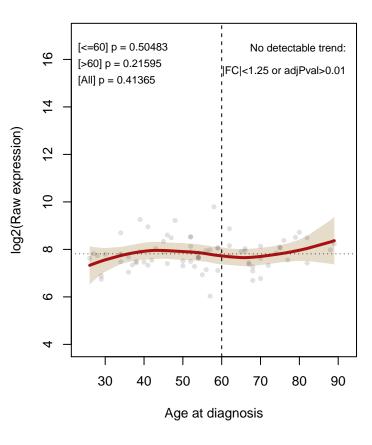




RAD51C (non-ER binding)

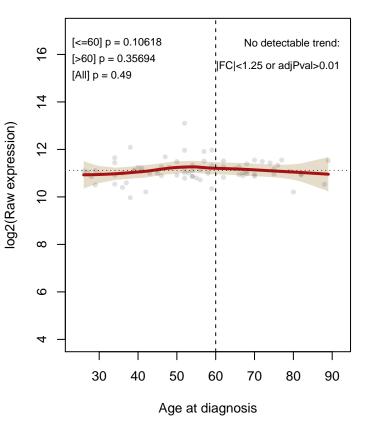
RAD51D (non-ER binding)

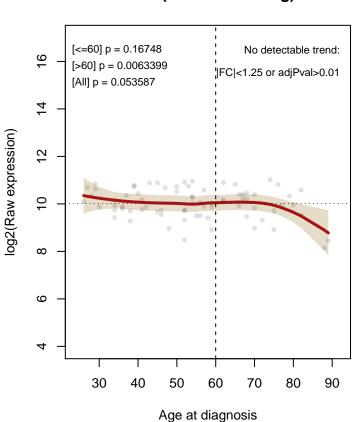


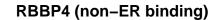


RAF1 (non-ER binding)

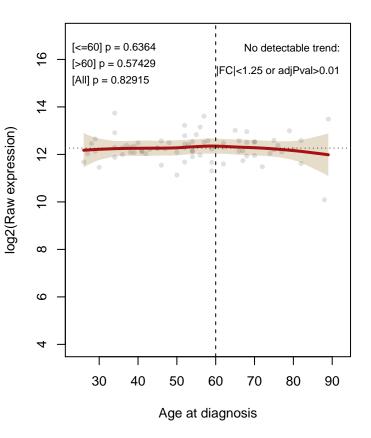
RB1 (non-ER binding)

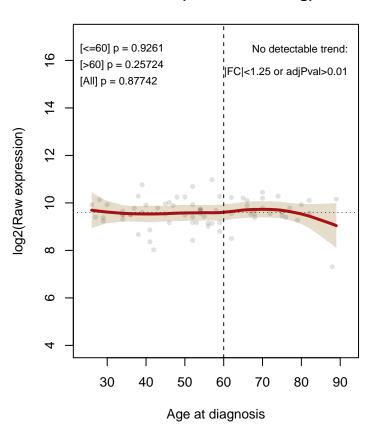






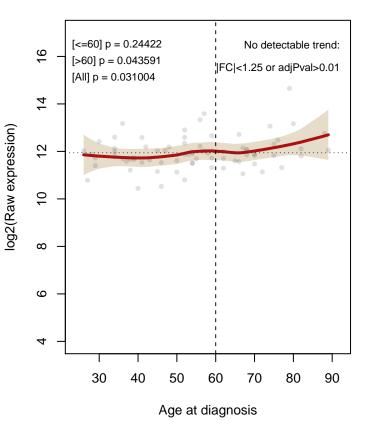
RBBP5 (non-ER binding)

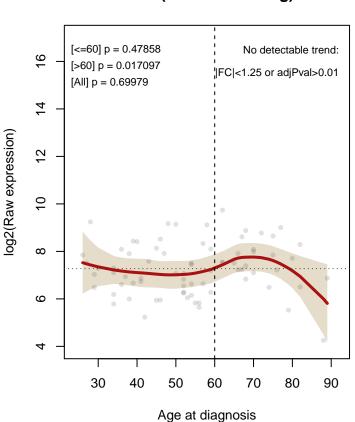




RBBP7 (non-ER binding)

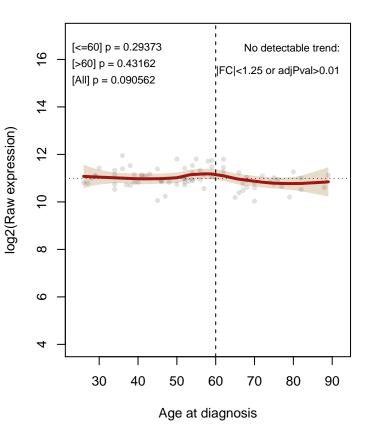
REL (non-ER binding)

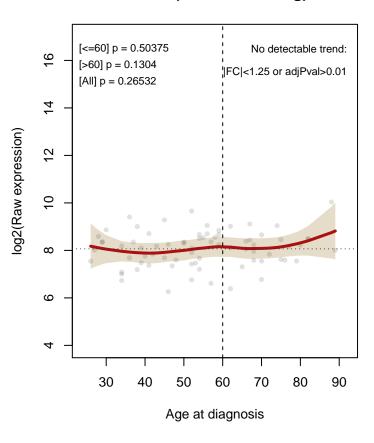






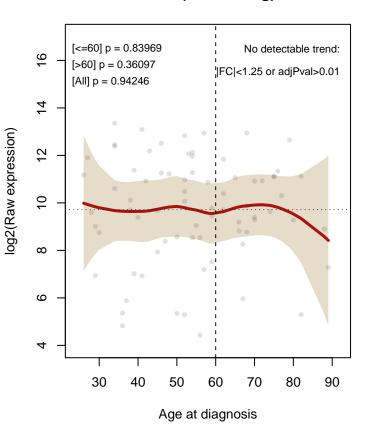
RELB (non-ER binding)

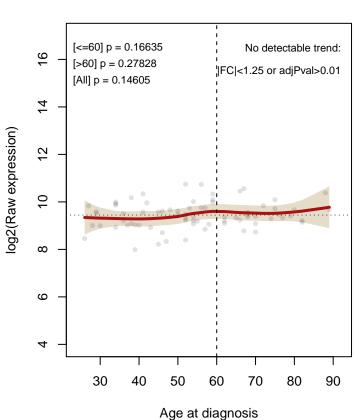


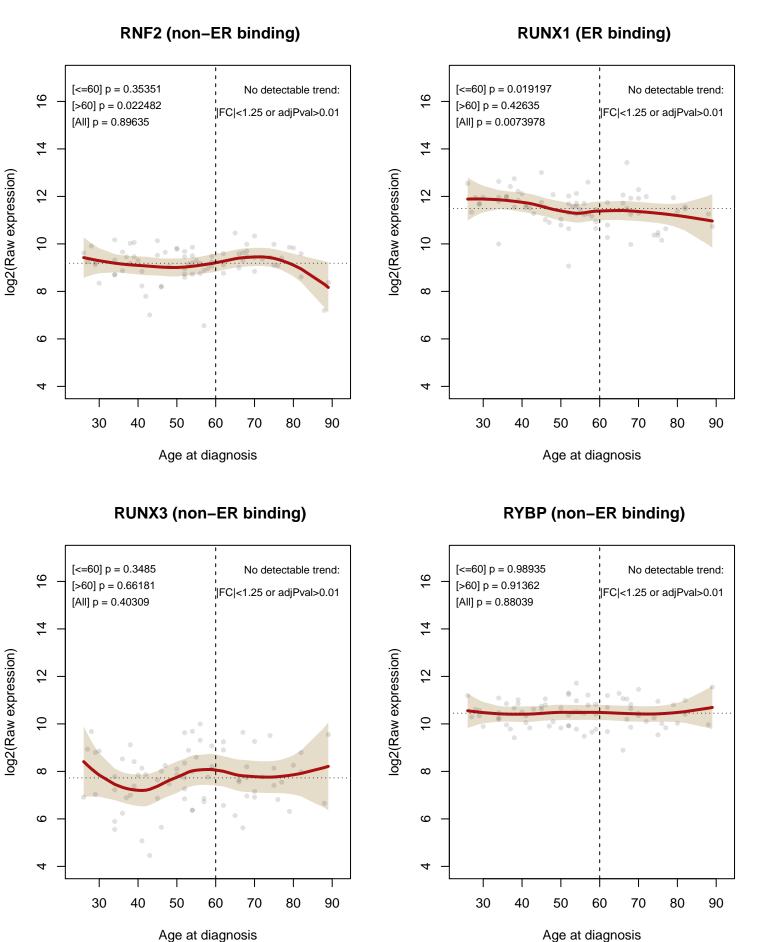


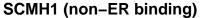
RET (ER binding)

RING1 (non-ER binding)









[<=60] p = 0.76727

[>60] p = 0.69515

[AII] p = 0.84058

30

40

50

16

4

12

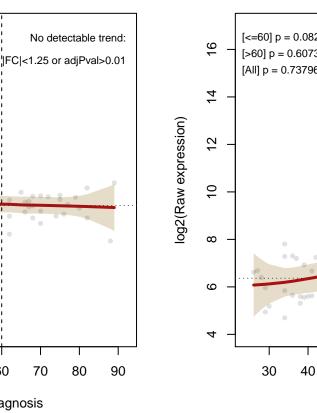
10

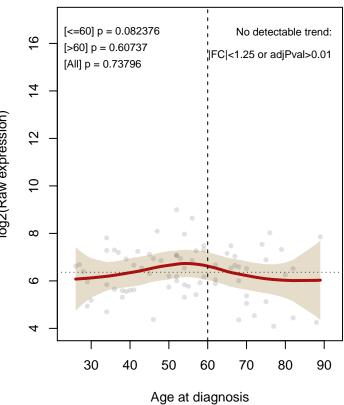
ω

9

log2(Raw expression)

SCML2 (non-ER binding)





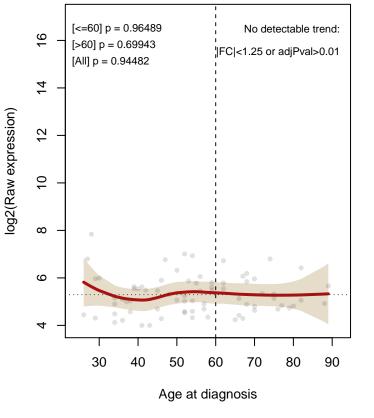
SCML4 (non-ER binding)

Age at diagnosis

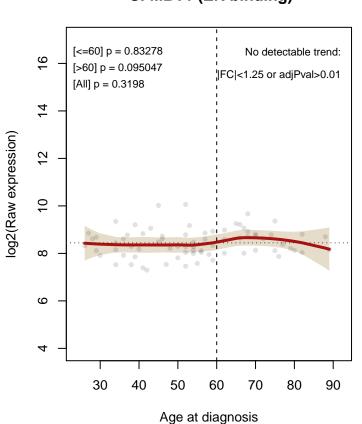
60

70

80



SFMBT1 (ER binding)



SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.67951No detectable trend: [<=60] p = 0.6005No detectable trend: 16 16 [>60] p = 0.2316 [>60] p = 0.81314 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.67567[All] p = 0.461124 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.086661No detectable trend: [<=60] p = 0.42473No detectable trend: 16 16 [>60] p = 0.017039 [>60] p = 0.676FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.062834[All] p = 0.197934 4 log2(Raw expression) log2(Raw expression) 12 12 10 10

ω

9

30

40

50

60

Age at diagnosis

70

80

90

ω

9

30

40

50

60

Age at diagnosis

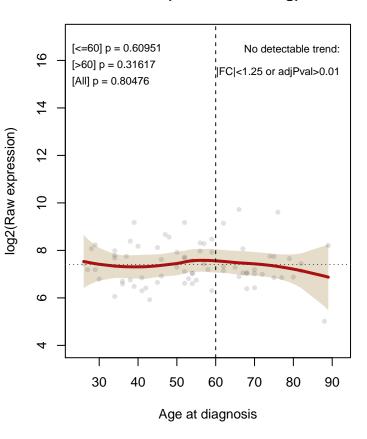
70

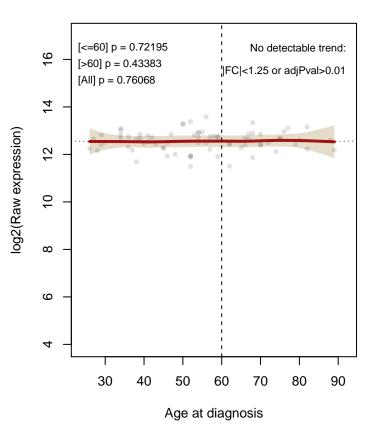
80

90

SKP2 (non-ER binding)

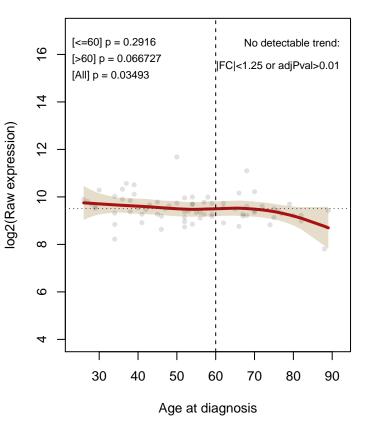
SLC25A3 (non-ER binding)

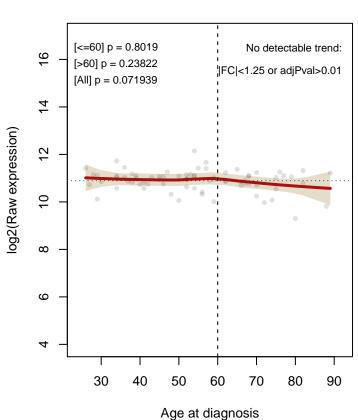




SMAD1 (non-ER binding)

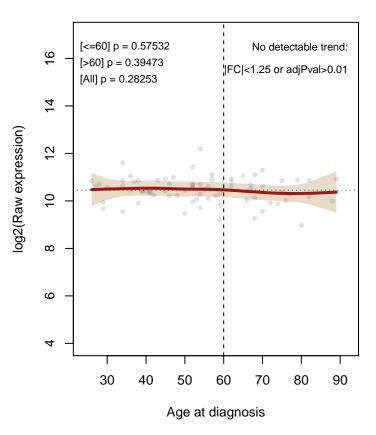
SMAD2 (non-ER binding)





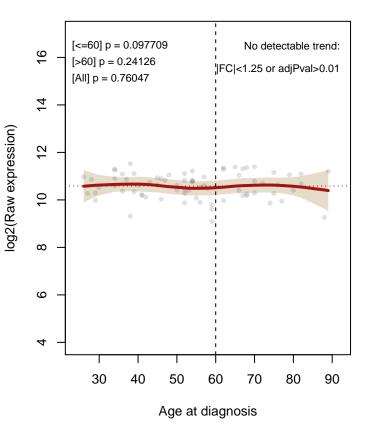
SMAD3 (ER binding) [<=60] p = 0.38696 [>60] p = 0.12864 [All] p = 0.31652 | FC|<1.25 or adjPval>0.01

SMAD4 (non-ER binding)

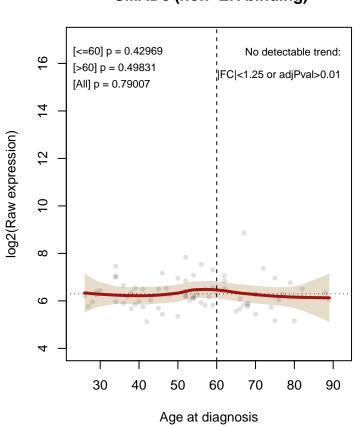


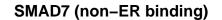
SMAD5 (non-ER binding)

Age at diagnosis

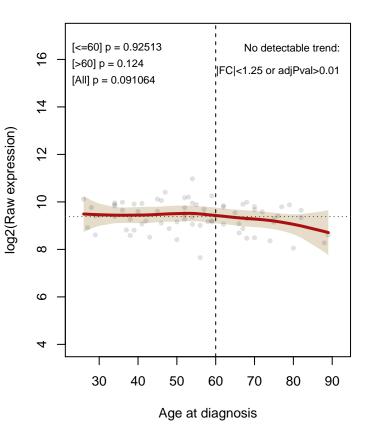


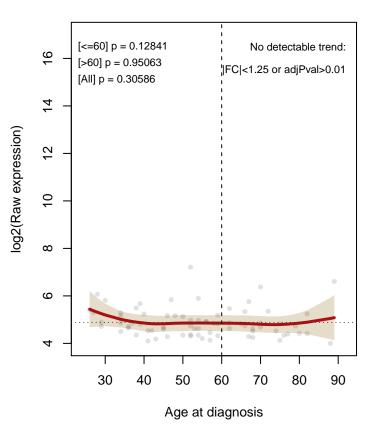
SMAD6 (non-ER binding)





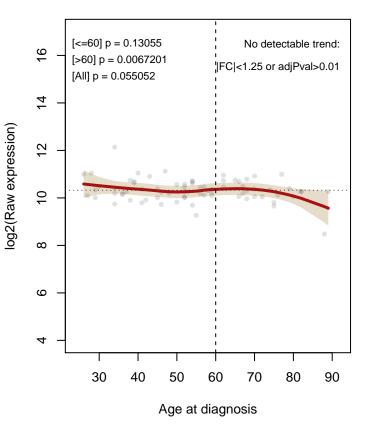
SMAD9 (non-ER binding)

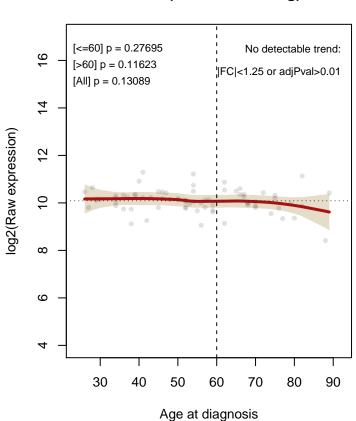


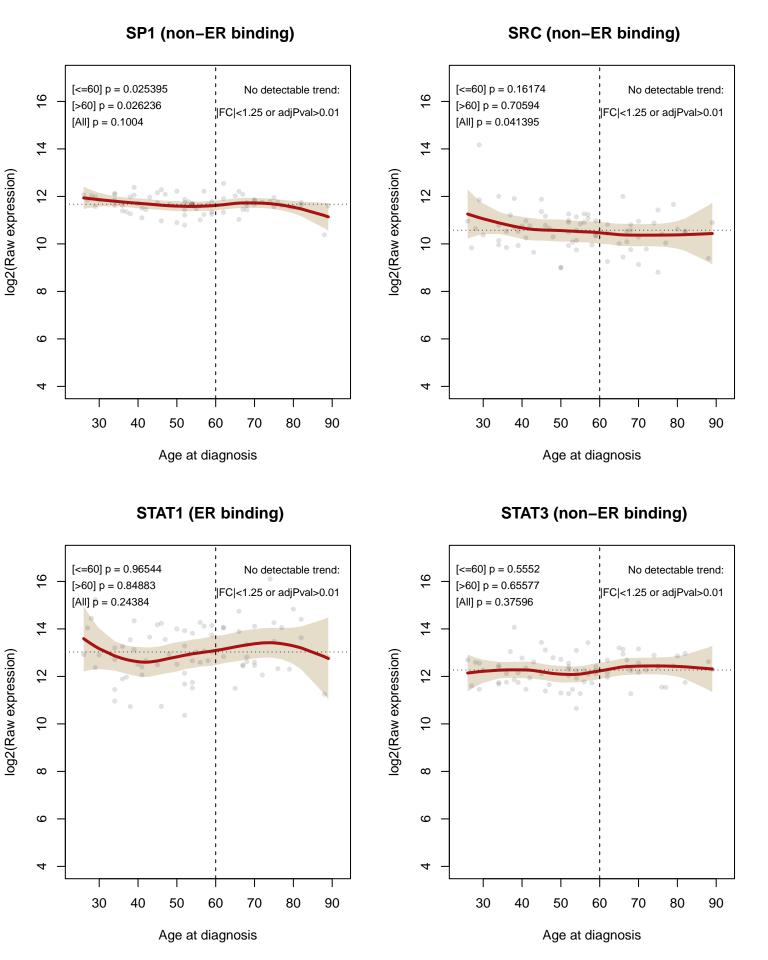


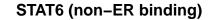
SOS1 (non-ER binding)

SOS2 (non-ER binding)

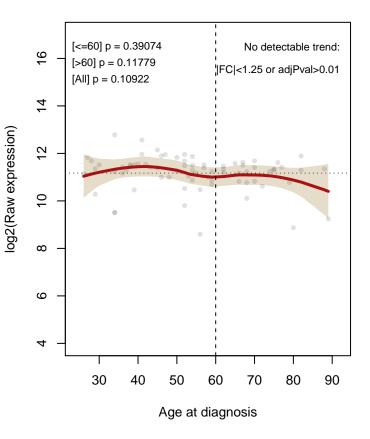


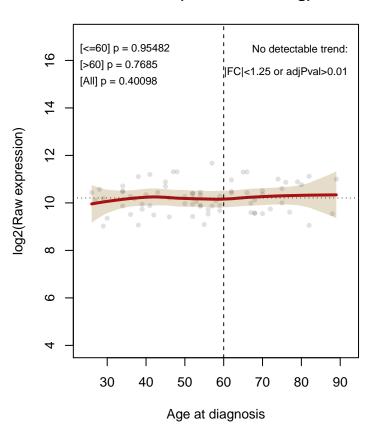






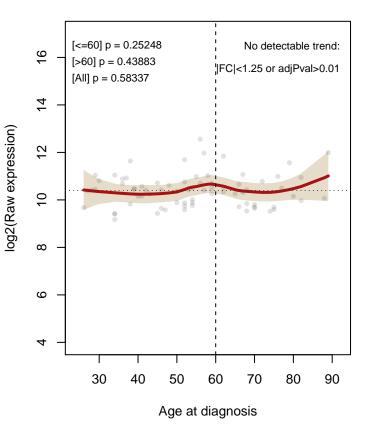
SUZ12 (non-ER binding)

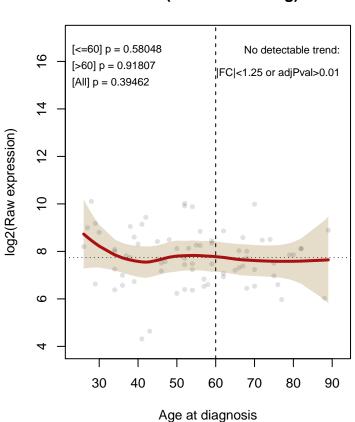




TCF3 (non-ER binding)

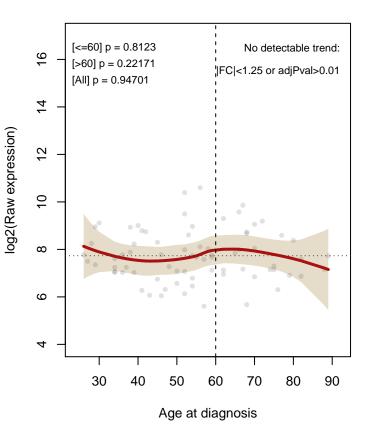
TCF7 (non-ER binding)

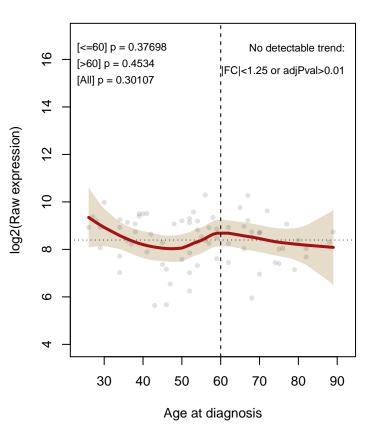






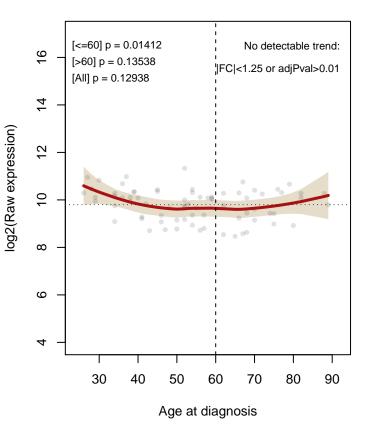
TCF7L2 (non-ER binding)

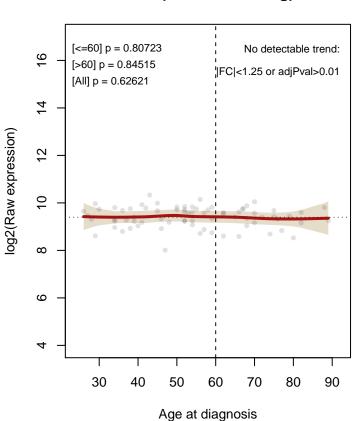


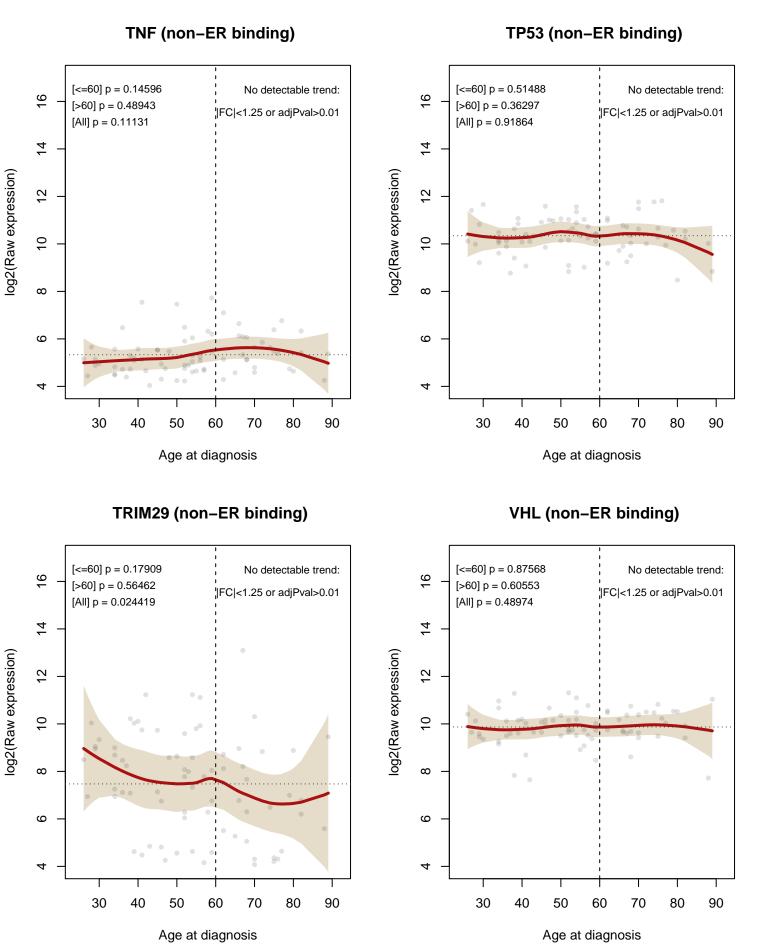


TGFB1 (non-ER binding)

TK2 (non-ER binding)









No detectable trend:

FC|<1.25 or adjPval>0.01

[<=60] p = 0.53659

[>60] p = 0.31505

[All] p = 0.33857

30

40

50

16

4

12

19

ω

9

log2(Raw expression)

log2(Raw expression)

9

30

40

50

60

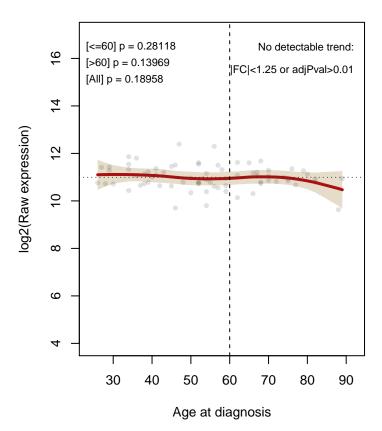
Age at diagnosis

70

80

90

WHSC1 (non-ER binding)



WNT1 (non-ER binding)

Age at diagnosis

60

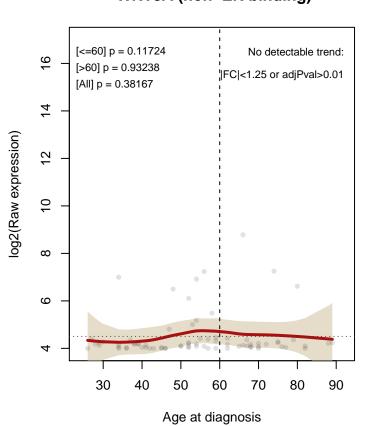
70

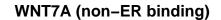
80

90

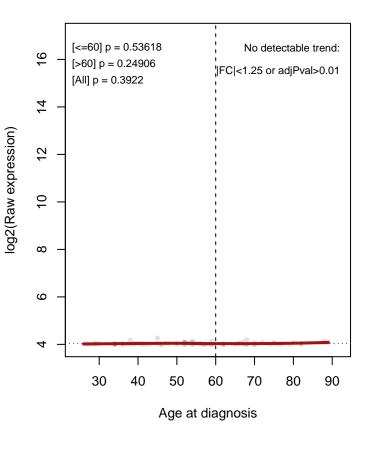
[<=60] p = 0.4073No detectable trend: 16 [>60] p = 0.64625 |FC|<1.25 or adjPval>0.01 [All] p = 0.626394 12 10 ω

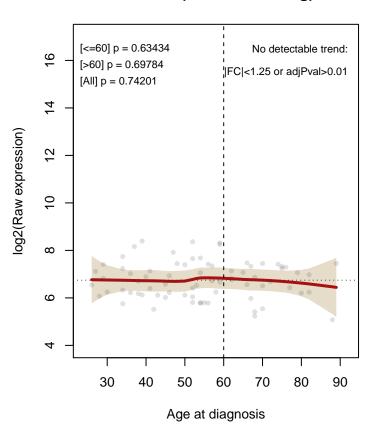
WNT3A (non-ER binding)





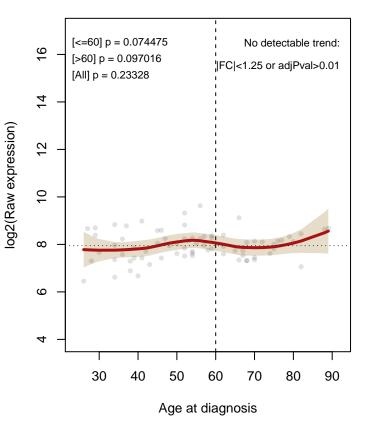
XRCC2 (non-ER binding)

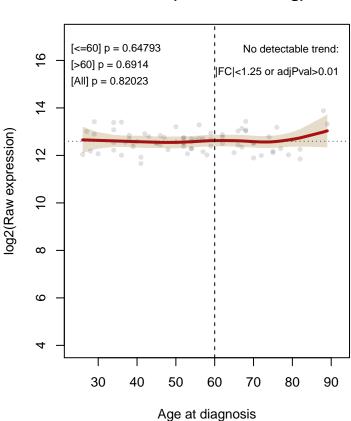




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)





YAF2 (non-ER binding)

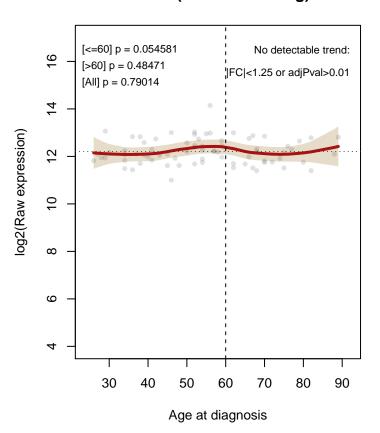
90 - [<=60] p = 0.88368 | No detectable trend: |FC|<1.25 or adjPval>0.01 | FC|<1.25 or adjPval>0.01 | No detectable trend: |FC|<1.25 or

30

40

50

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

60

70

80

90

