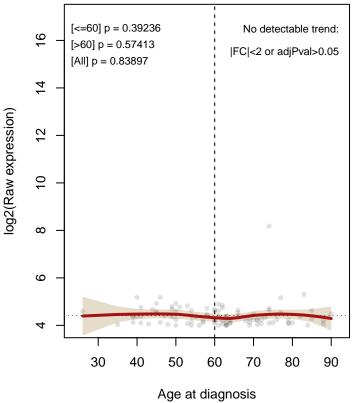
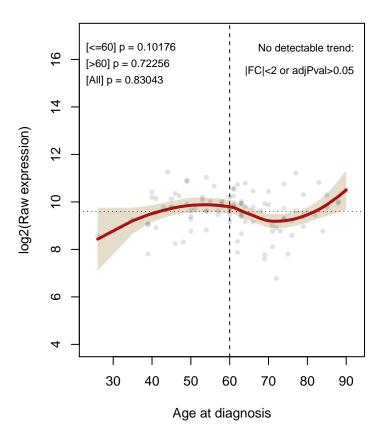


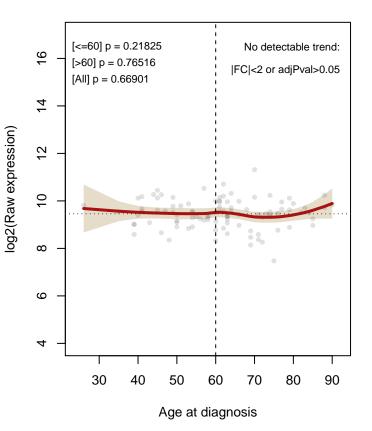
ATM (non-ER binding)

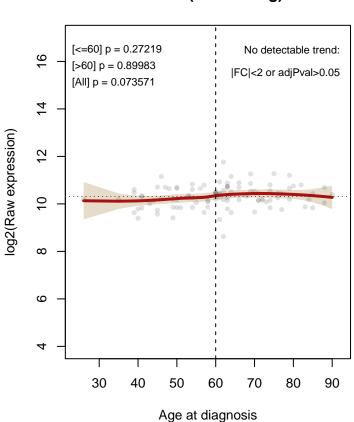




ATR (non-ER binding)

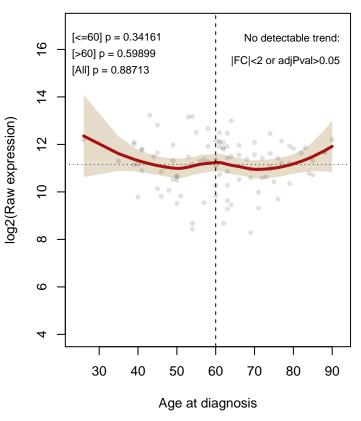
AXIN1 (ER binding)

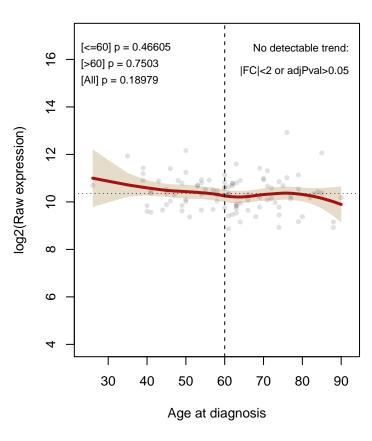






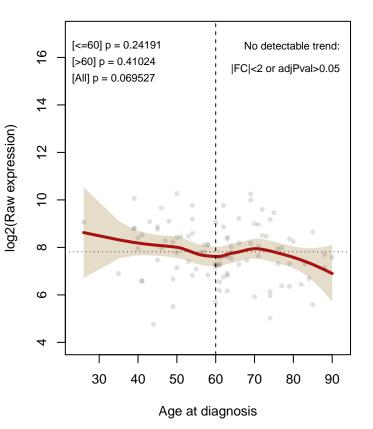
BCL3 (non-ER binding)

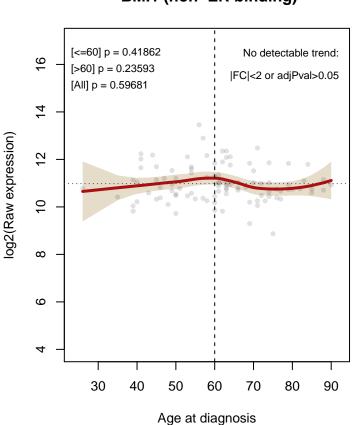




BIRC5 (non-ER binding)

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|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.047826[All] p = 0.720194 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 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|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.61333[AII] p = 0.909384 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

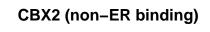
60

Age at diagnosis

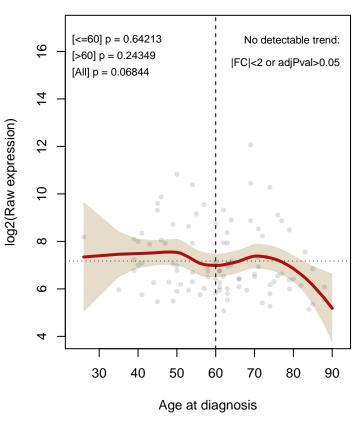
70

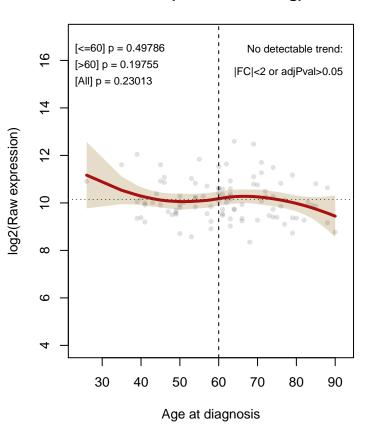
80

90



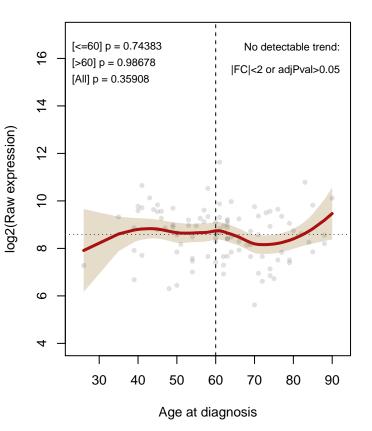
CBX4 (non-ER binding)

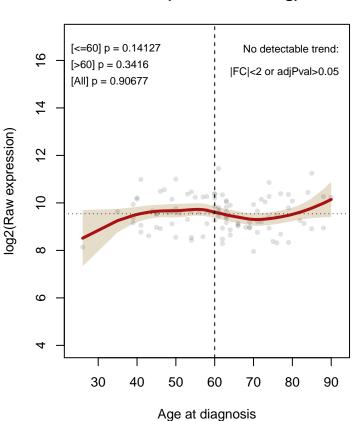


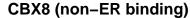


CBX6 (non-ER binding)

CBX7 (non-ER binding)







[<=60] p = 0.65586No detectable trend: 16 [>60] p = 0.6453 |FC|<2 or adjPval>0.05 [All] p = 0.740274 12 10

log2(Raw expression)

ω

9

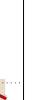
30

40

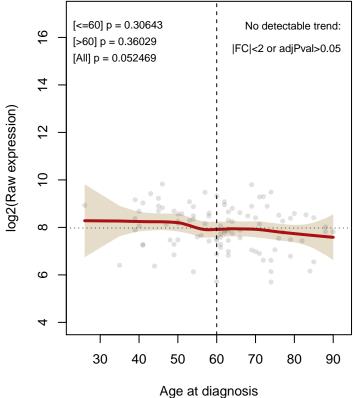
50







CCNA2 (non-ER binding)



CCNB1 (non-ER binding)

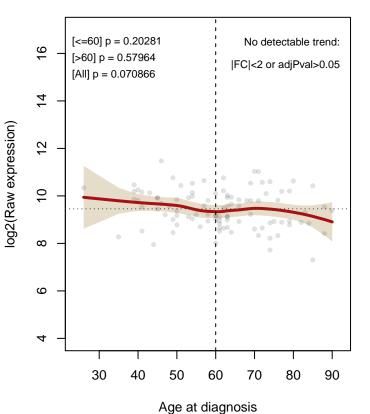
Age at diagnosis

60

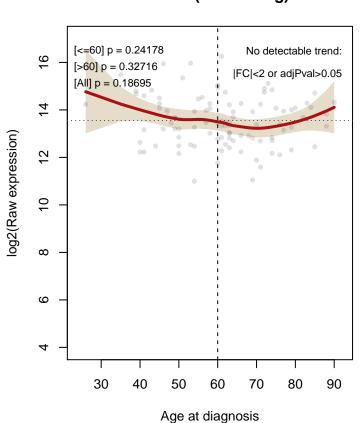
70

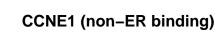
80

90

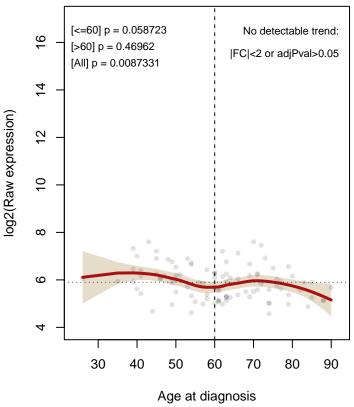


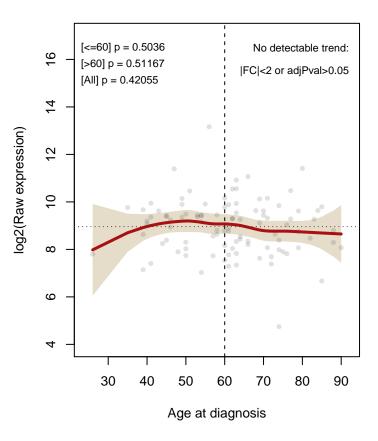
CCND1 (ER binding)





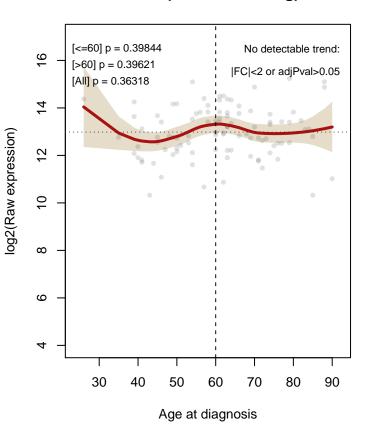
CD163 (non-ER binding)

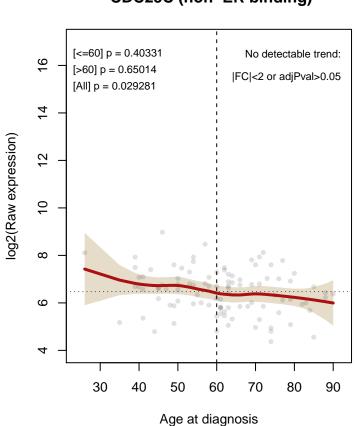


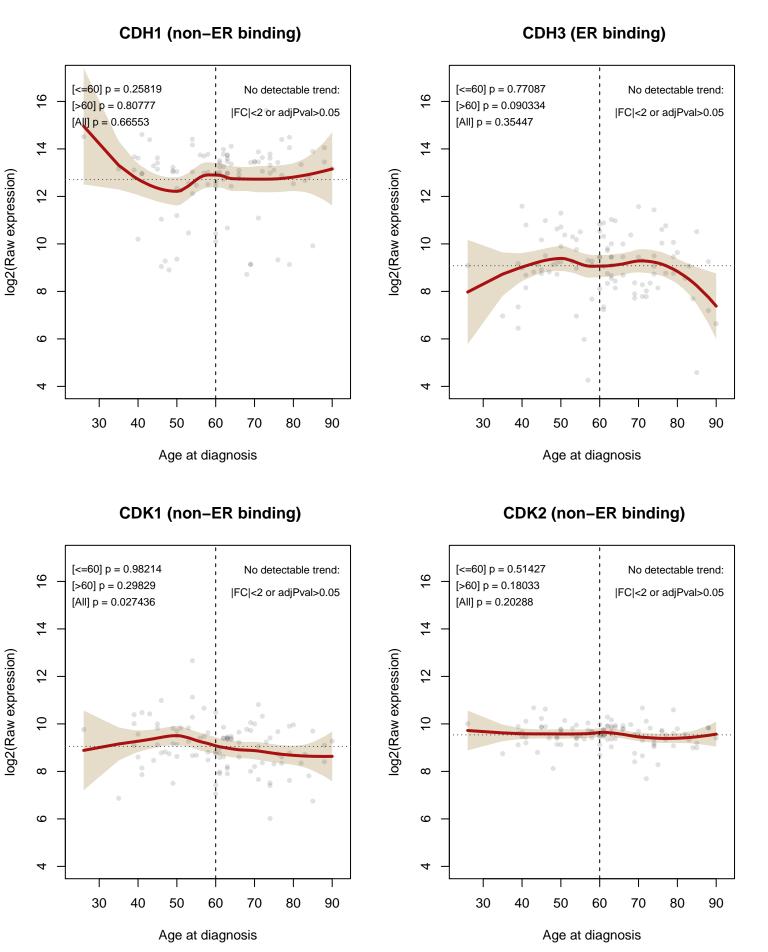


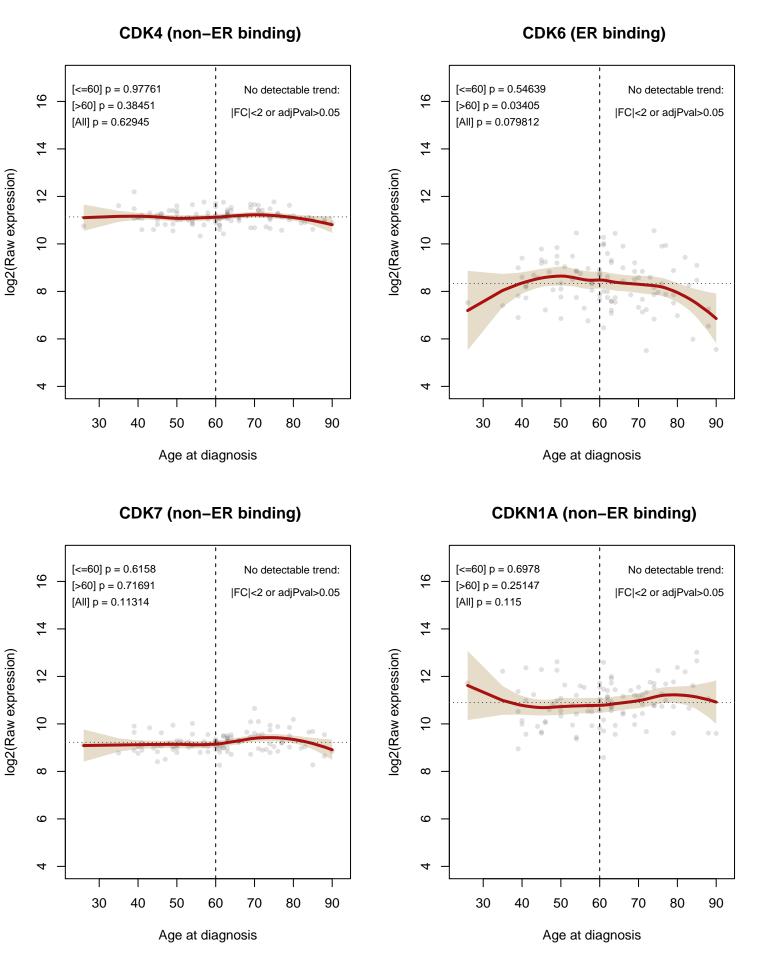
CD44 (non-ER binding)

CDC25C (non-ER binding)









CDKN1B (non-ER binding)





16

10

30

40

log2(Raw expression)



ω 9

50

Age at diagnosis

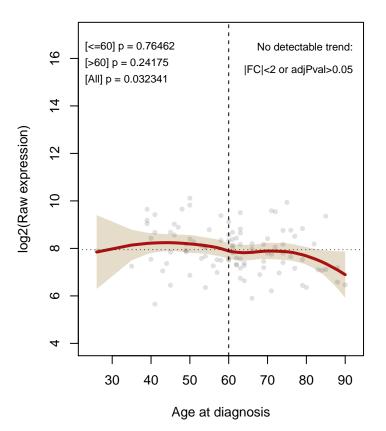
60

70

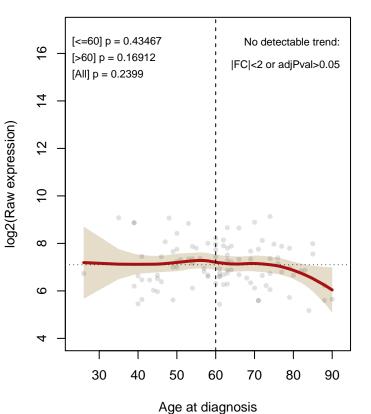
80

90

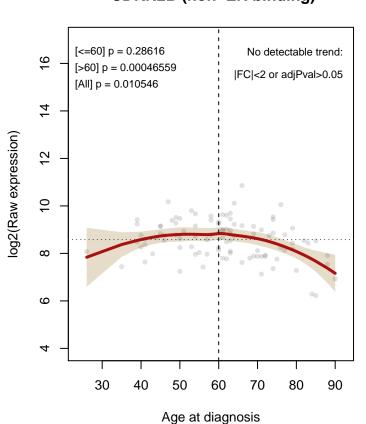
CDKN1C (non-ER binding)



CDKN2A (non-ER binding)

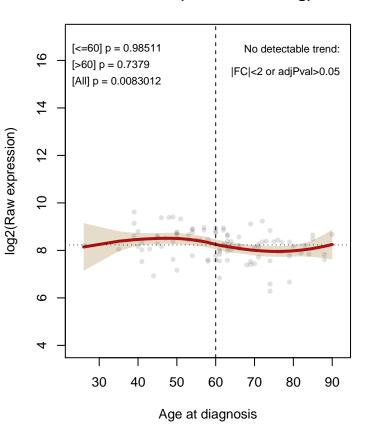


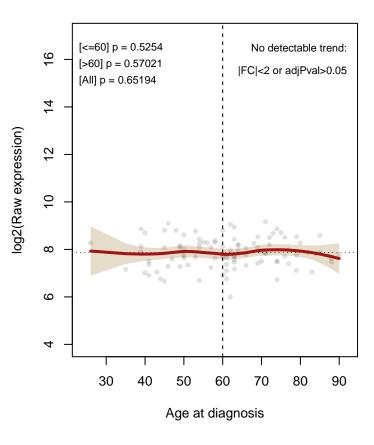
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

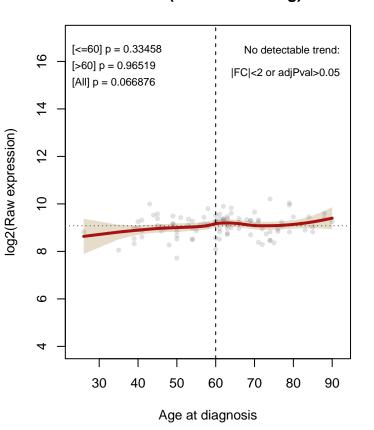
CDKN2D (non-ER binding)

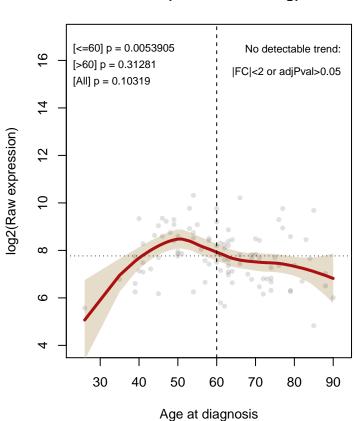




CHUK (non-ER binding)

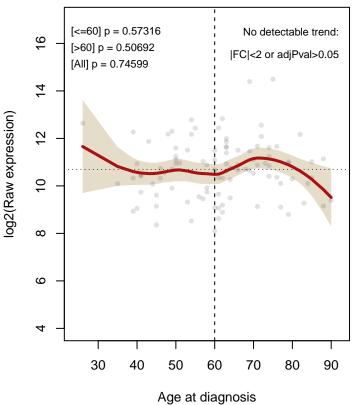
CIITA (non-ER binding)

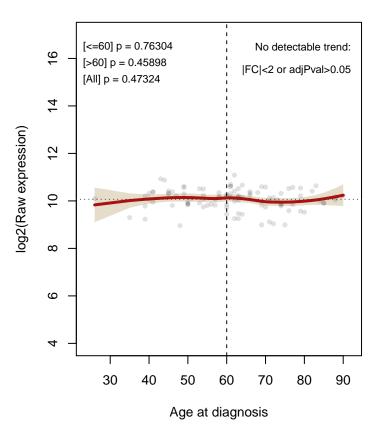




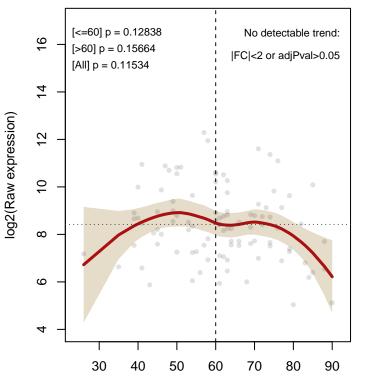
CLDN3 (non-ER binding)

CREB1 (non-ER binding)



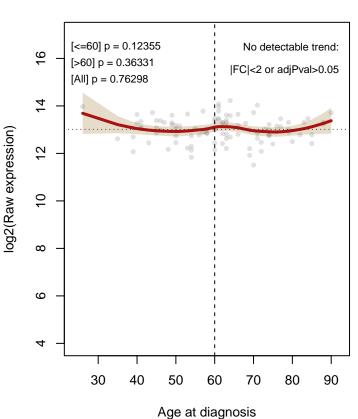


CRYAB (non-ER binding)



Age at diagnosis

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|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.81118[AII] p = 5.3258e - 054 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.90284No detectable trend: [<=60] p = 0.012384 No detectable trend: 16 16 [>60] p = 0.45963 [>60] p = 0.82821 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.13869[All] p = 0.0273764 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

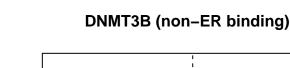
60

Age at diagnosis

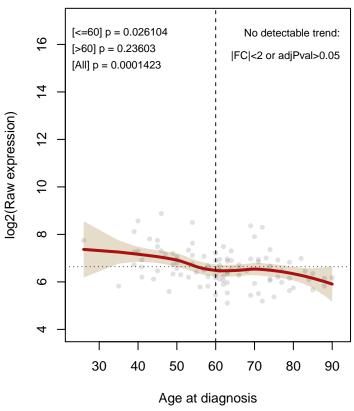
70

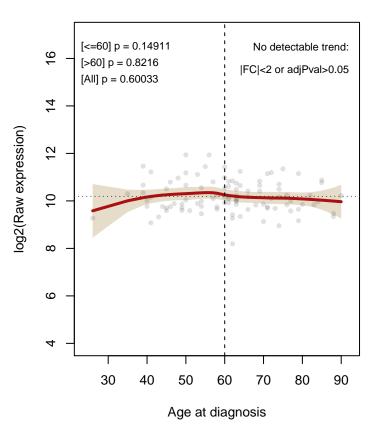
80

90



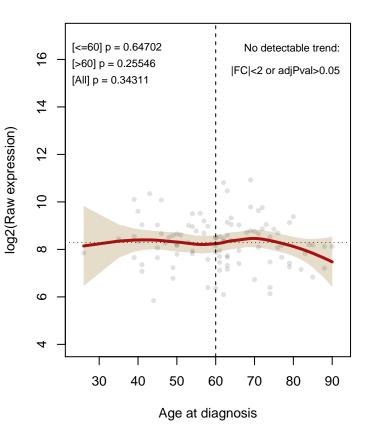
DVL1 (non-ER binding)

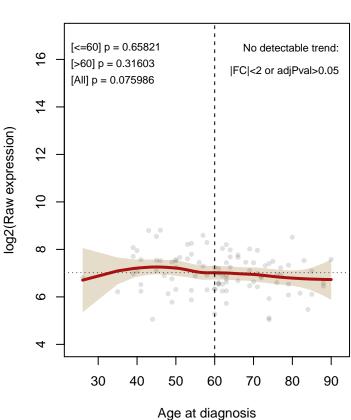


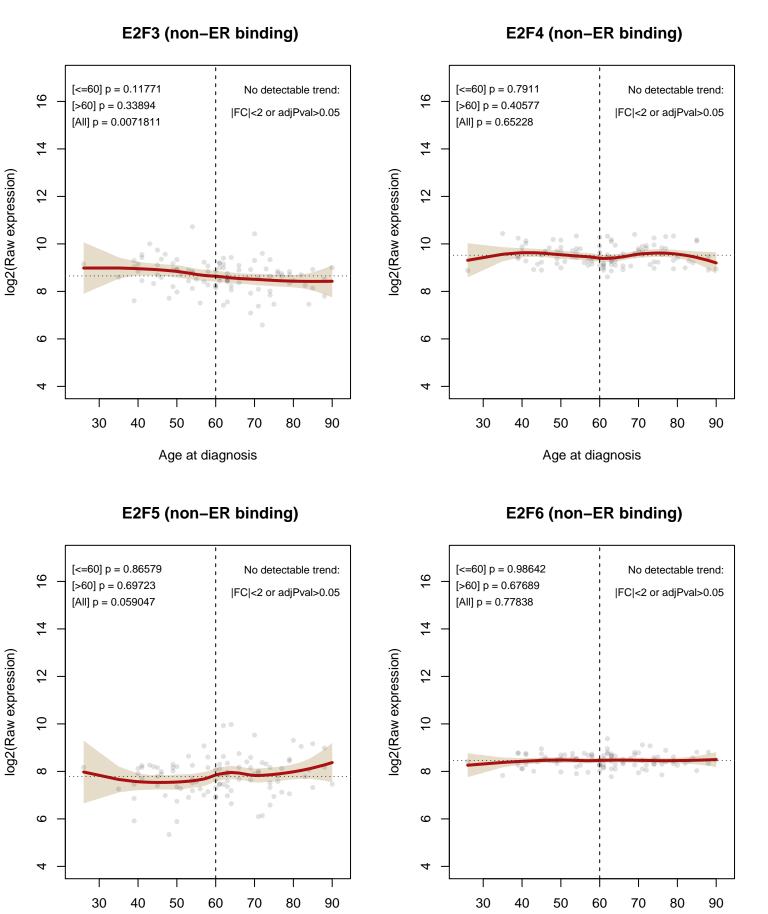


E2F1 (non-ER binding)

E2F2 (non-ER binding)

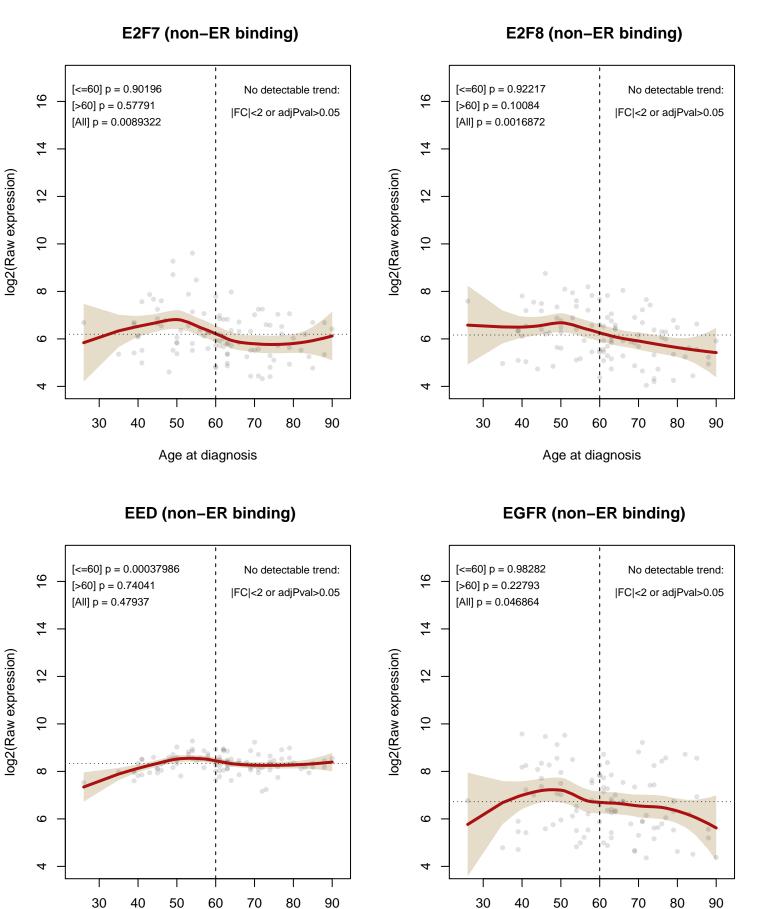






Age at diagnosis

Age at diagnosis

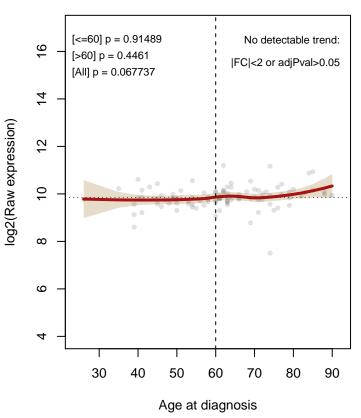


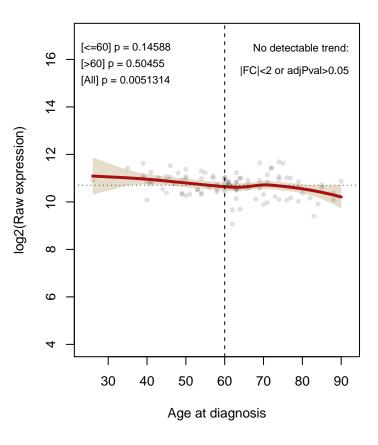
Age at diagnosis

Age at diagnosis



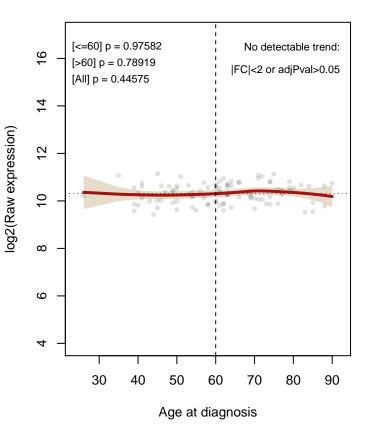
EHMT2 (non-ER binding)

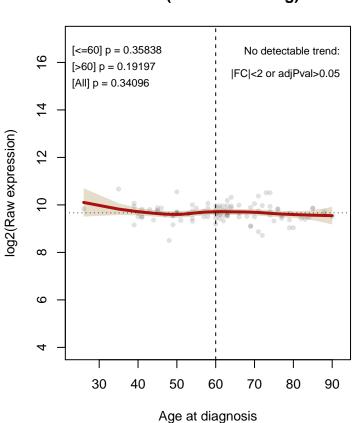


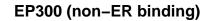


ELAC2 (non-ER binding)

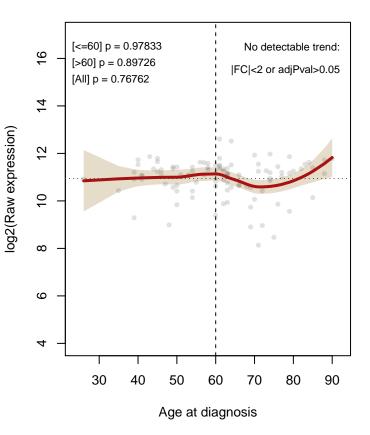
ELK1 (non-ER binding)

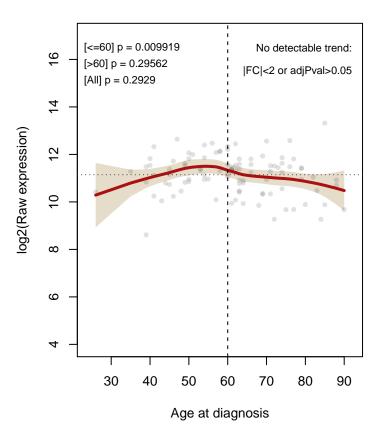






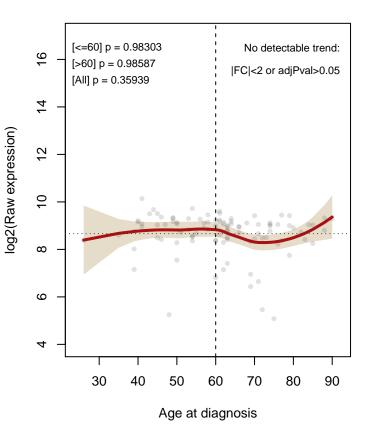
EPAS1 (non-ER binding)

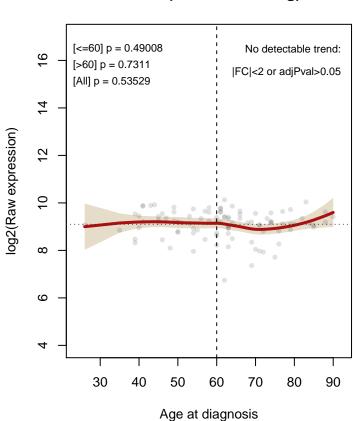


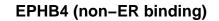


EPC1 (non-ER binding)

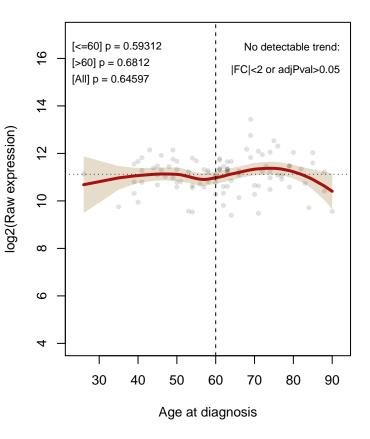
EPC2 (non-ER binding)

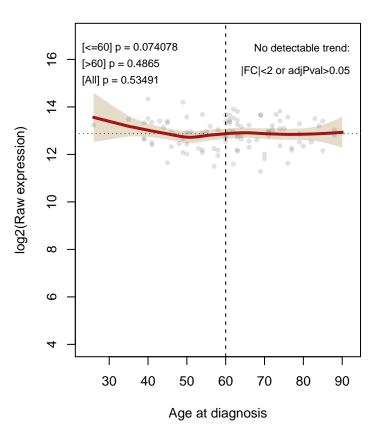






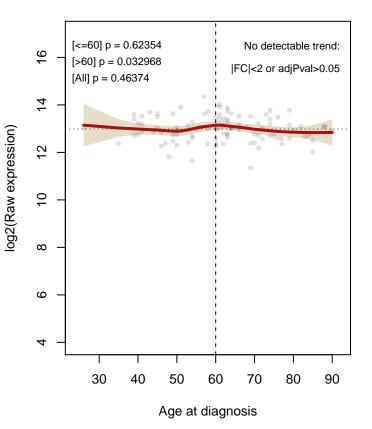
ERBB2 (non-ER binding)

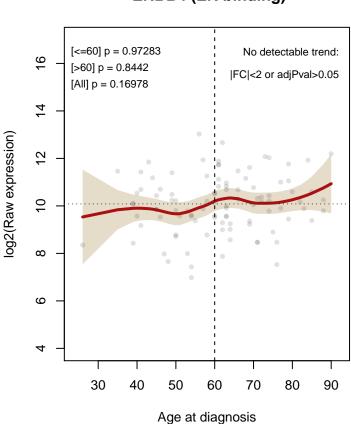


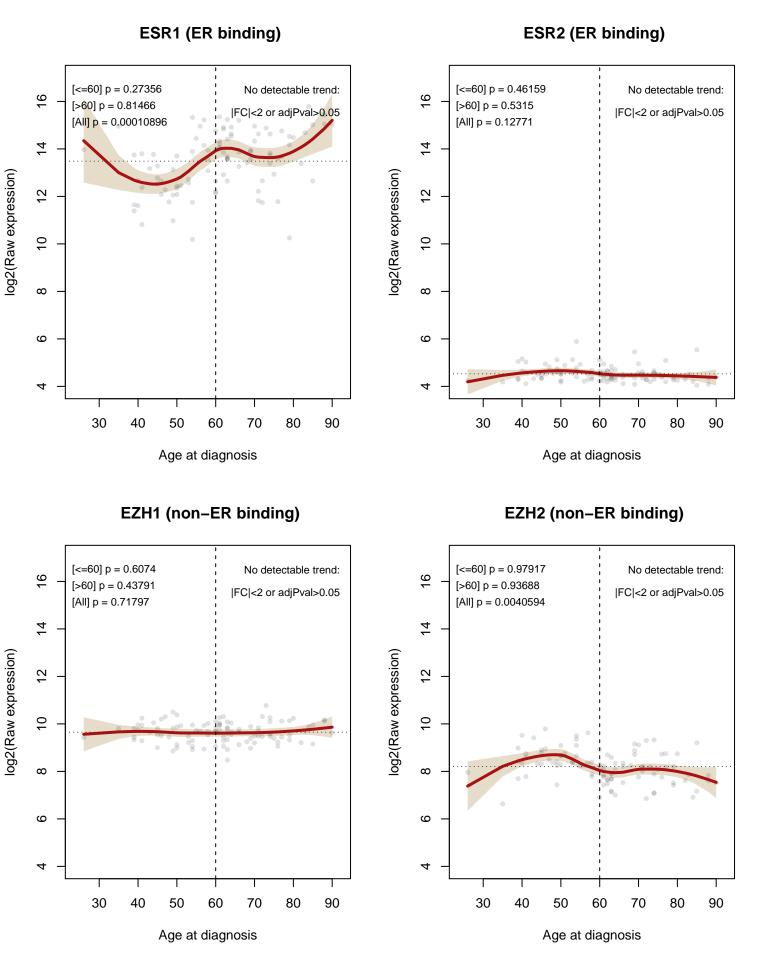


ERBB3 (non-ER binding)

ERBB4 (ER binding)

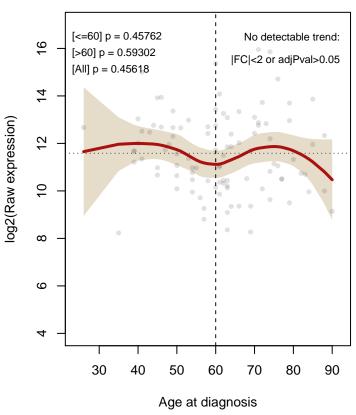


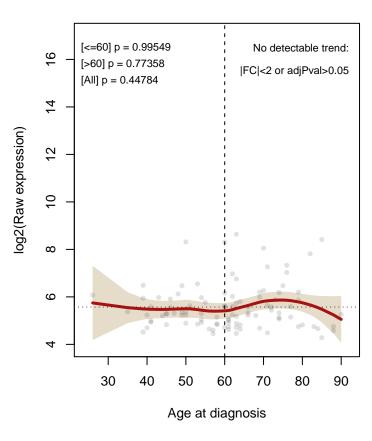






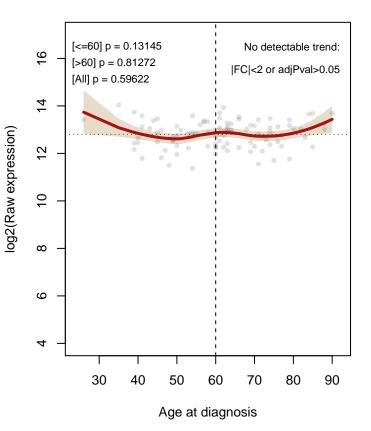
FOSL1 (non-ER binding)

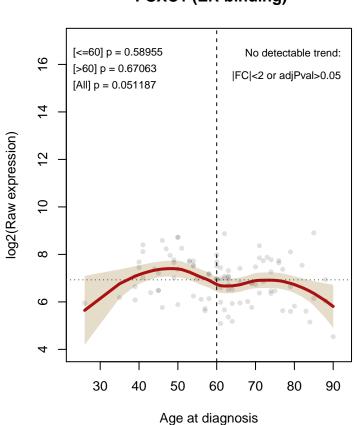


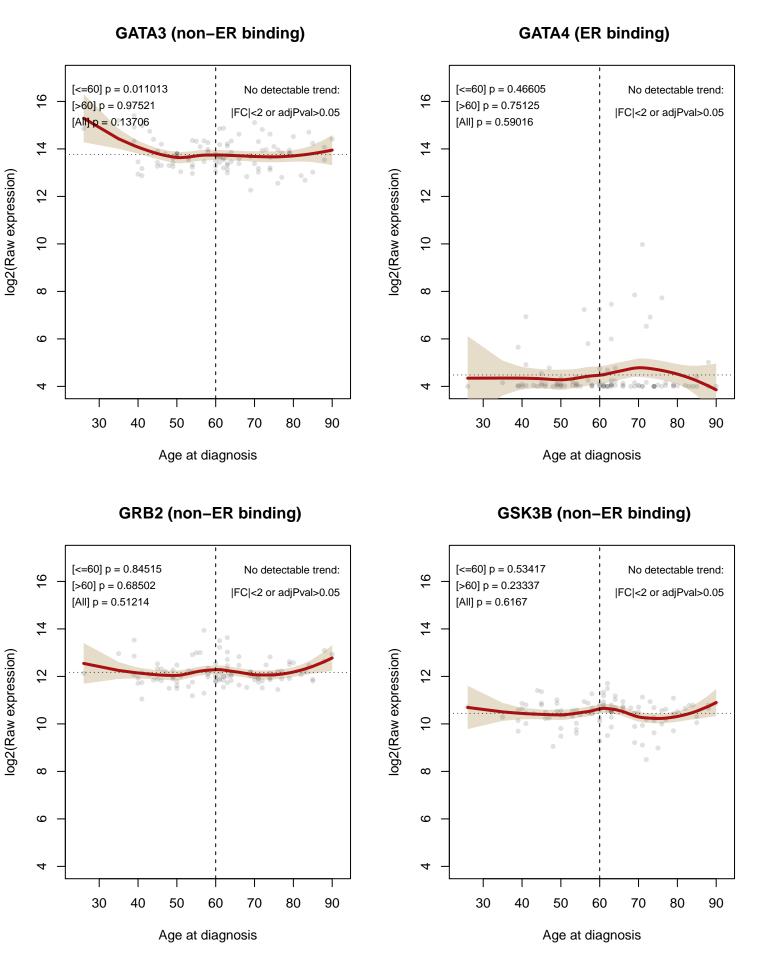


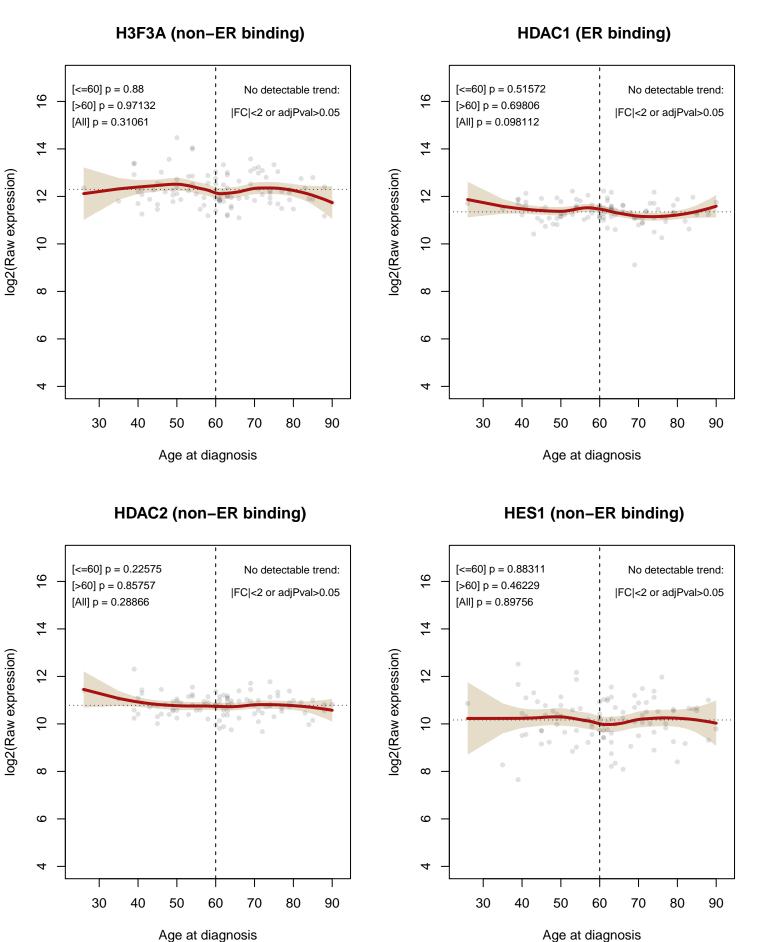
FOXA1 (ER binding)

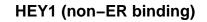
FOXC1 (ER binding)



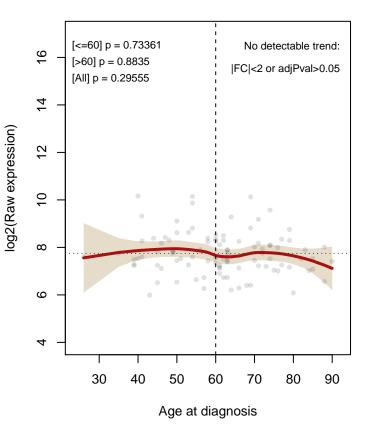


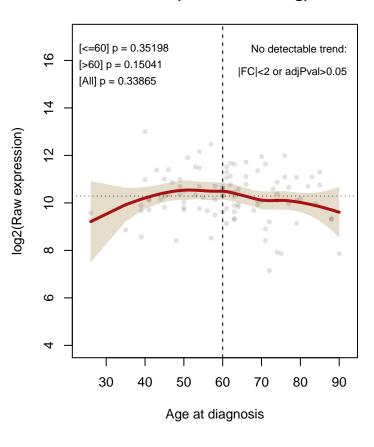






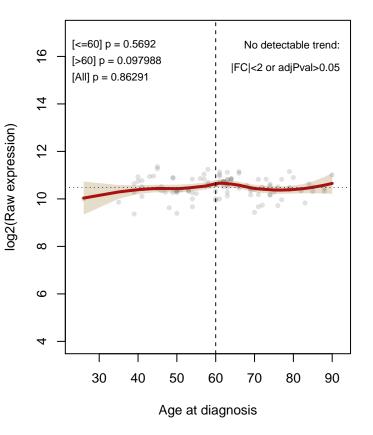
HIF1A (non-ER binding)

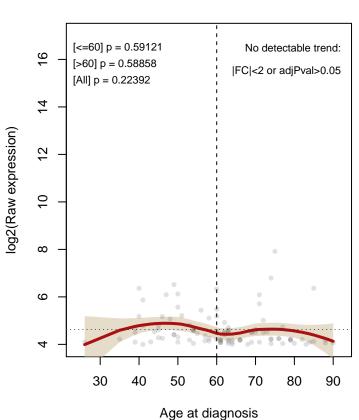


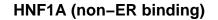


HIF1AN (non-ER binding)

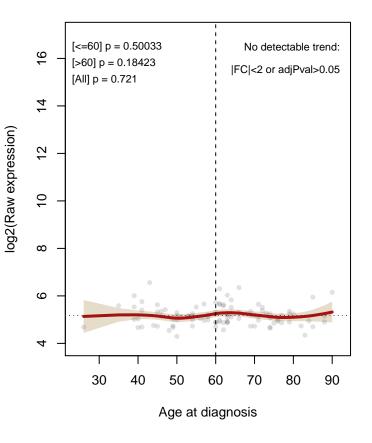
HIF3A (non-ER binding)

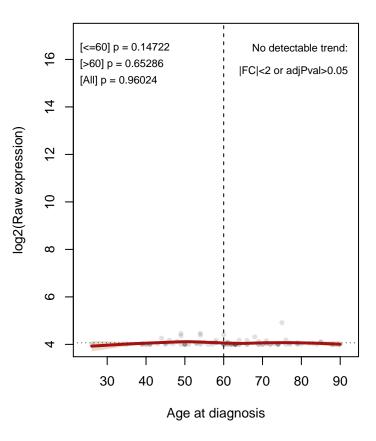






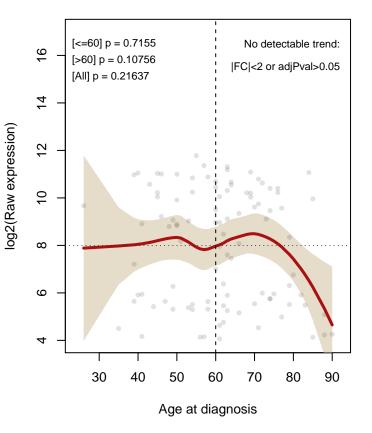
HNF1B (non-ER binding)

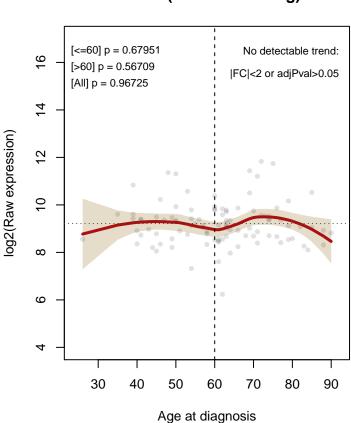




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.18721 No detectable trend: [<=60] p = 0.10765No detectable trend: 16 16 [>60] p = 0.5615 [>60] p = 0.4845|FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.5507[AII] p = 0.706724 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω 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|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.59447[All] p = 0.718084 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

9

30

40

50

60

Age at diagnosis

70

80

90

9

30

40

50

60

Age at diagnosis

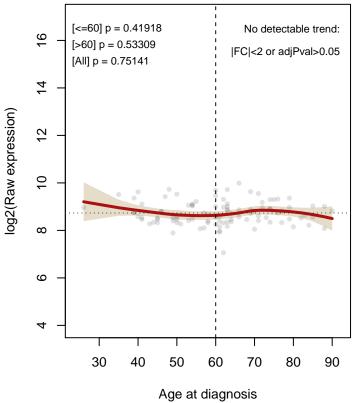
70

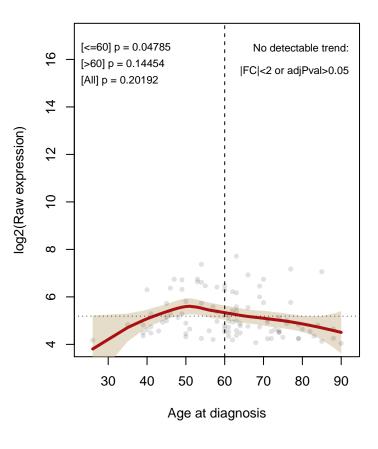
80

90



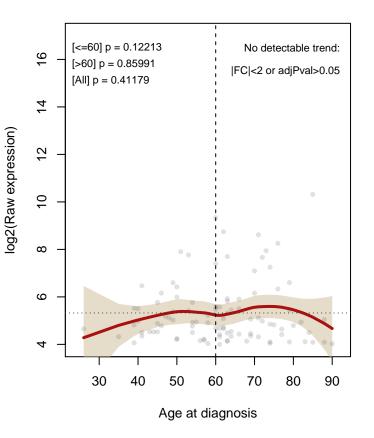
IL2RA (non-ER binding)

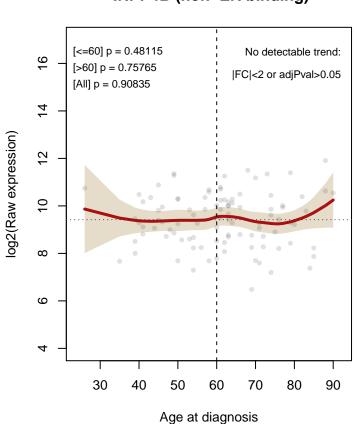


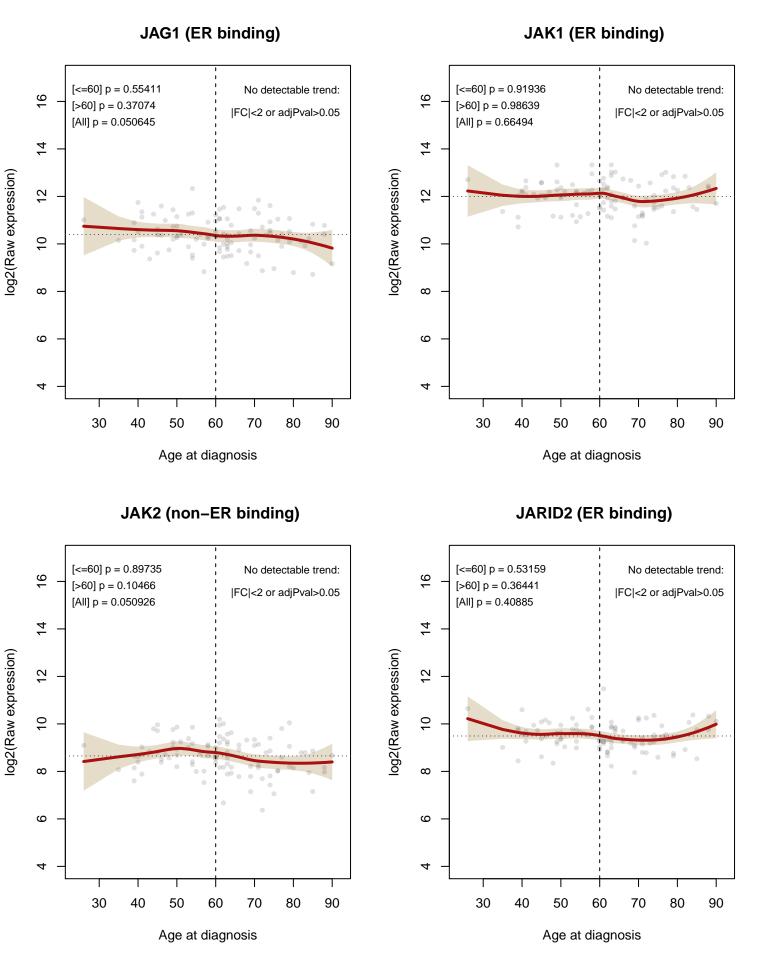


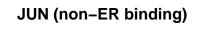
IL6 (non-ER binding)

INPP4B (non-ER binding)

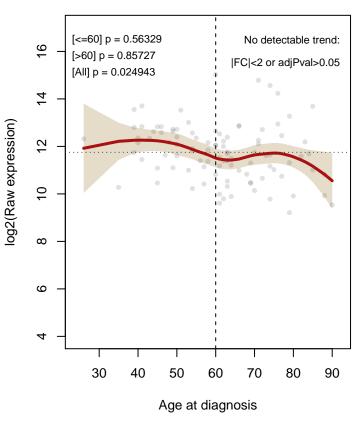


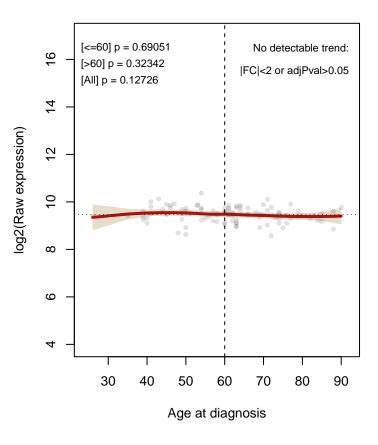






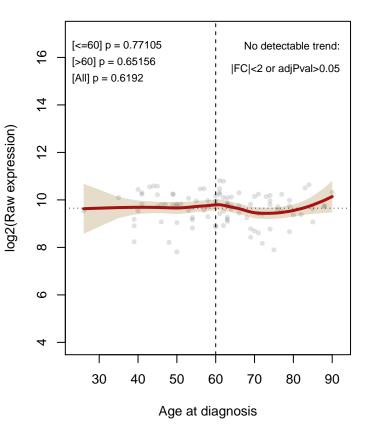
KDM2B (non-ER binding)

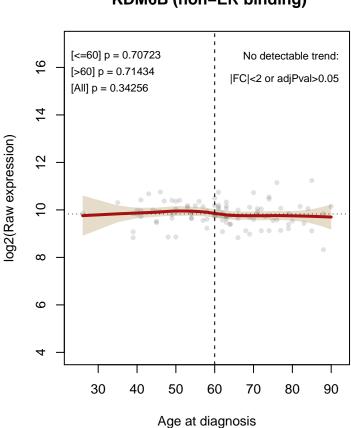


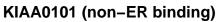


KDM6A (non-ER binding)

KDM6B (non-ER binding)







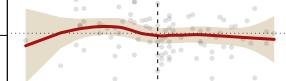




ω

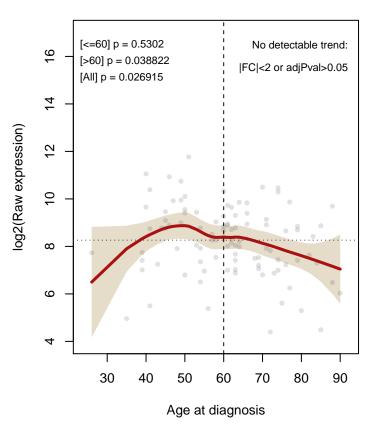
log2(Raw expression)





Age at diagnosis

KIT (non-ER binding)

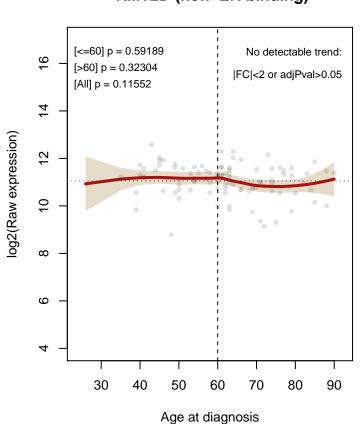


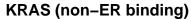
KMT2C (non-ER binding)

[<=60] p = 0.72005No detectable trend: [>60] p = 0.39437 |FC|<2 or adjPval>0.05 [All] p = 0.21071log2(Raw expression) ω

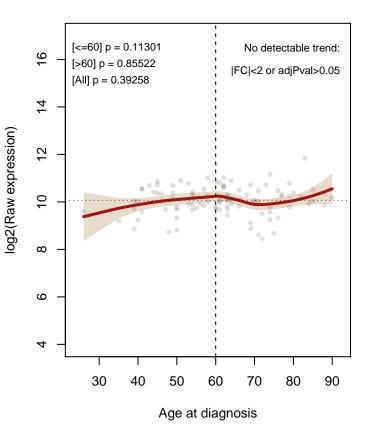
Age at diagnosis

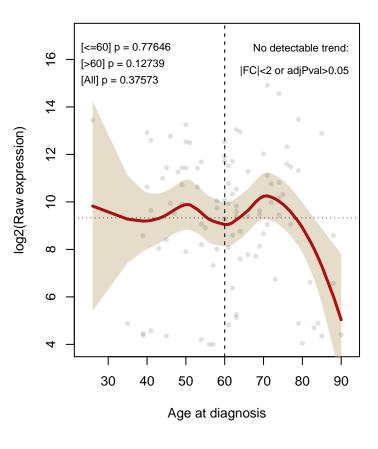
KMT2D (non-ER binding)





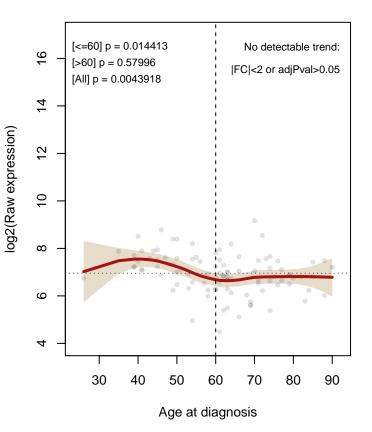
g) KRT5 (non–ER binding)

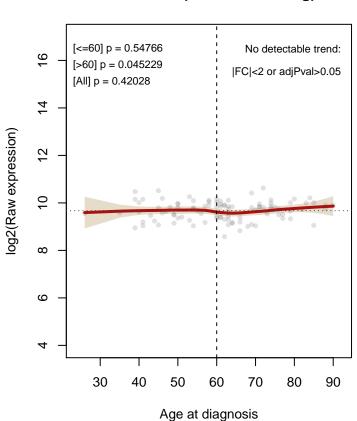




L3MBTL1 (non-ER binding)

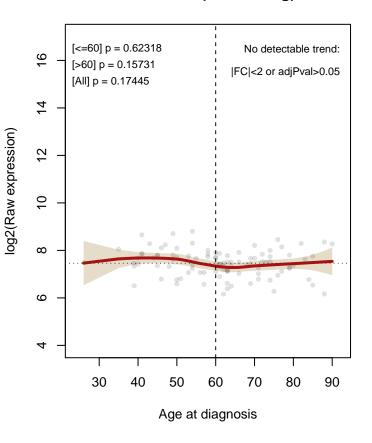
L3MBTL2 (non-ER binding)

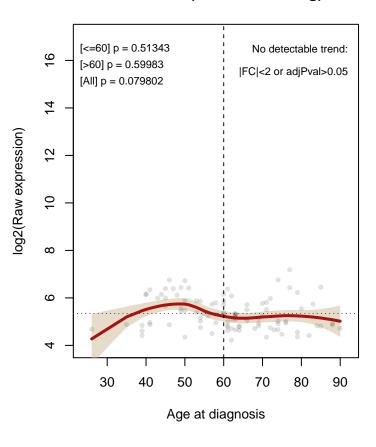




L3MBTL3 (ER binding)

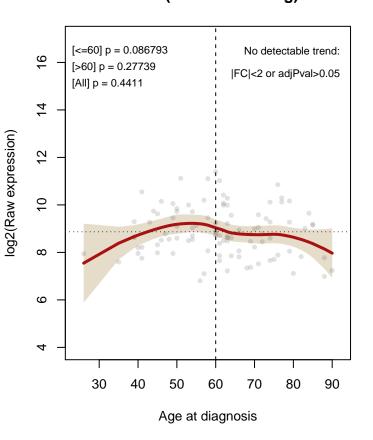
L3MBTL4 (non-ER binding)

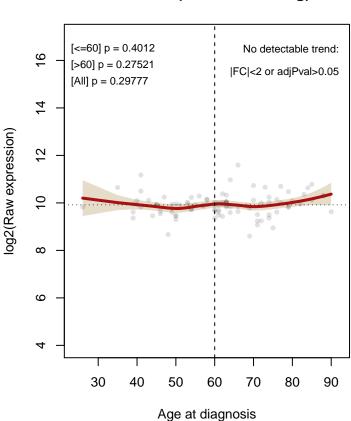




LEF1 (non-ER binding)

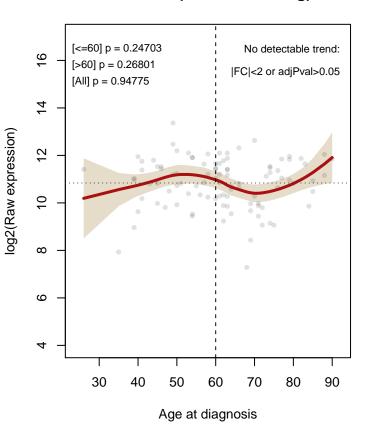
MAP2K1 (non-ER binding)

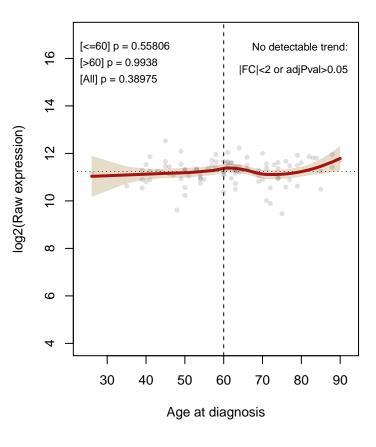




MAP3K1 (non-ER binding)

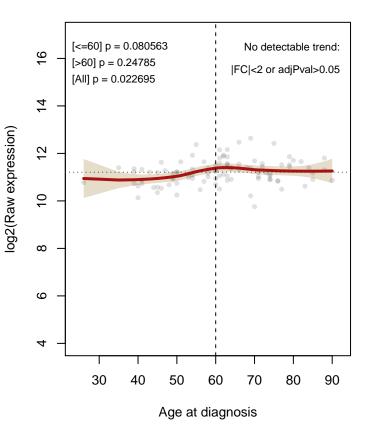
MAPK1 (non-ER binding)

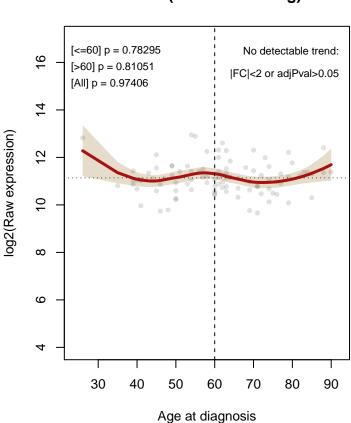


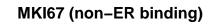


MAPK3 (non-ER binding)

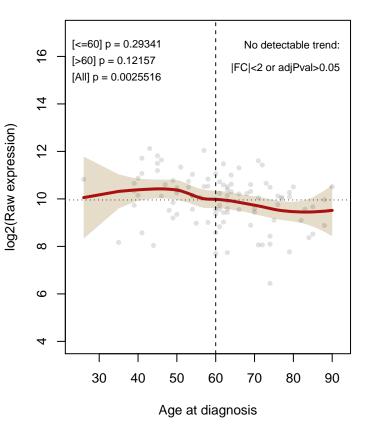
MDM2 (non-ER binding)

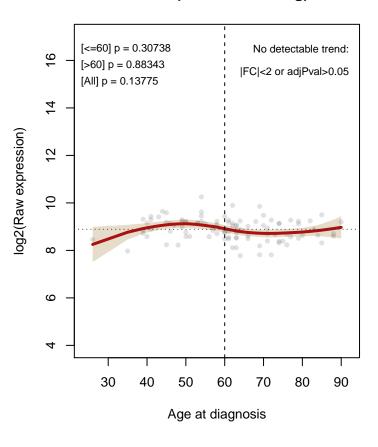






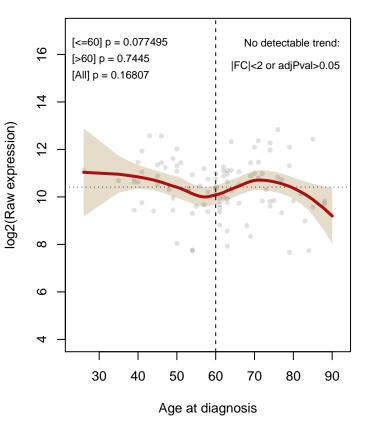
MTF2 (non-ER binding)

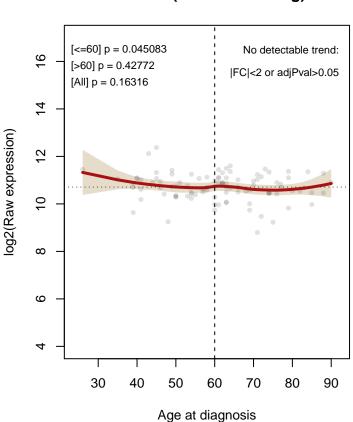




MYC (non-ER binding)

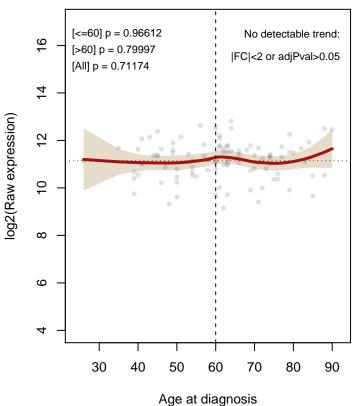
NCOA6 (non-ER binding)

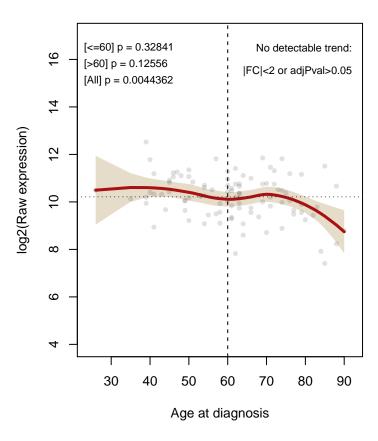






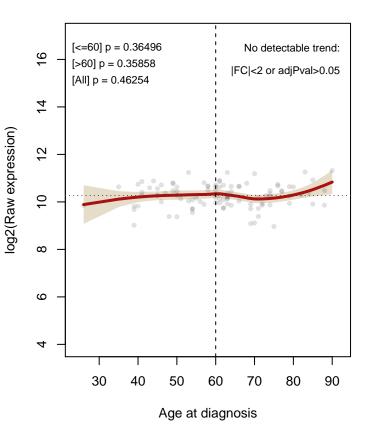
NES (non-ER binding)

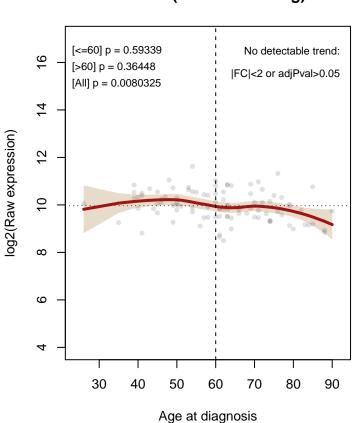




NFKB1 (non-ER binding)

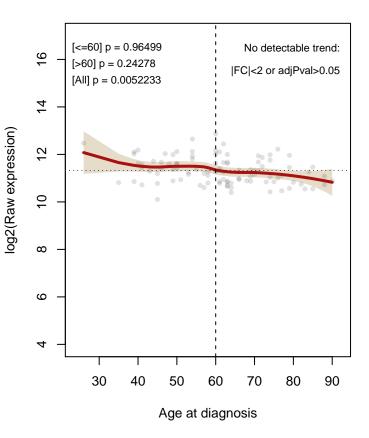
NFKB2 (non-ER binding)

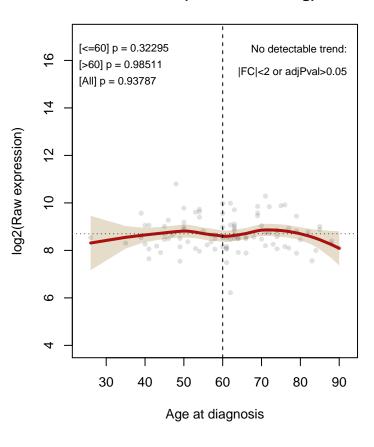






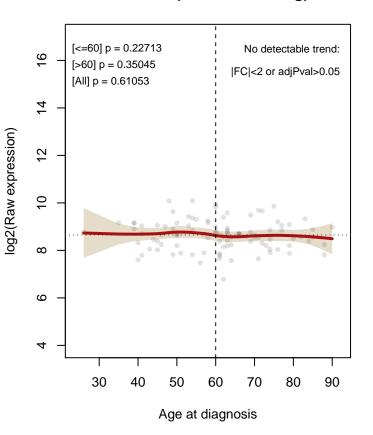
NFKBIB (non-ER binding)

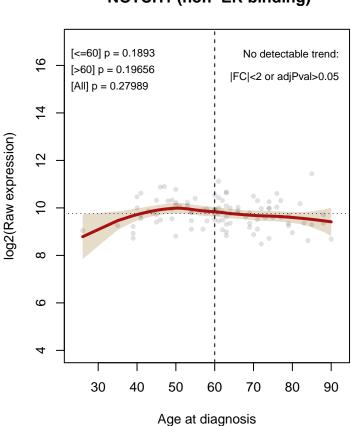




NFKBIE (non-ER binding)

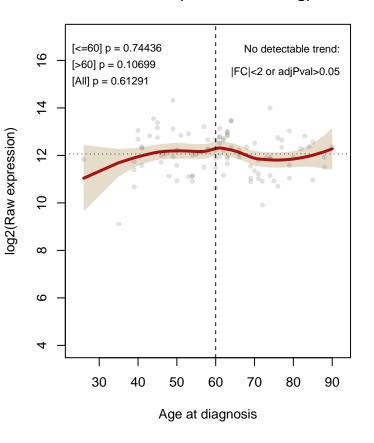
NOTCH1 (non-ER binding)

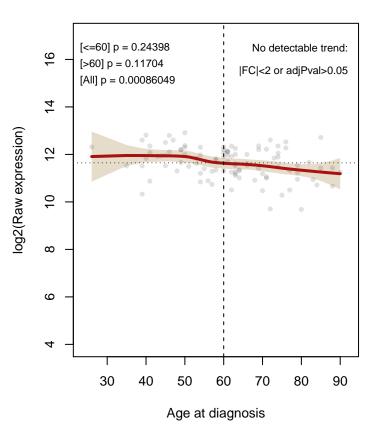




NOTCH2 (non-ER binding)

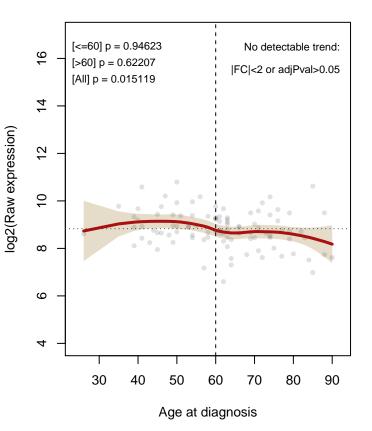
NOTCH3 (non-ER binding)

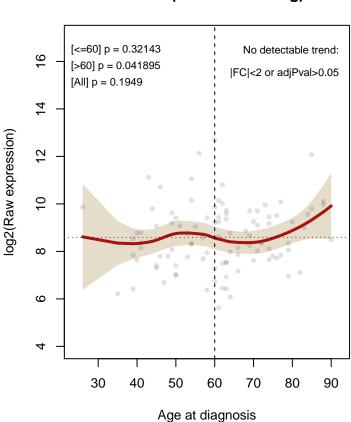


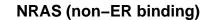


NOTCH4 (non-ER binding)

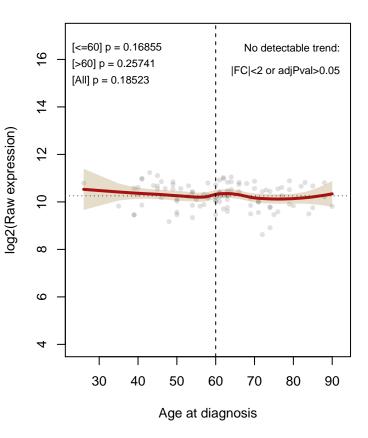
NR4A2 (non-ER binding)

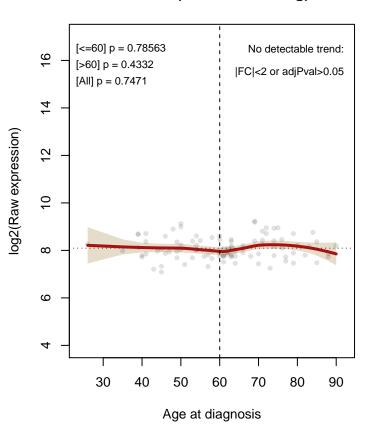






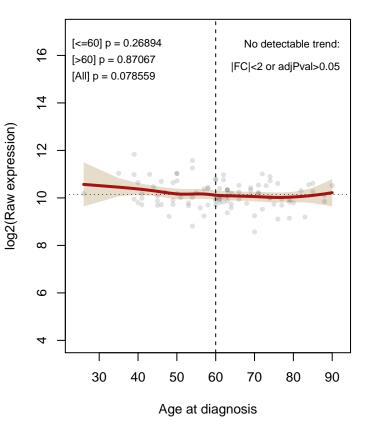
PCGF1 (non-ER binding)

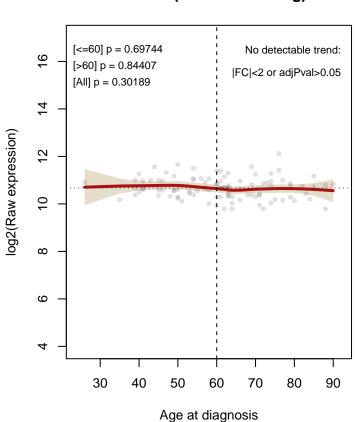


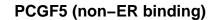


PCGF2 (non-ER binding)

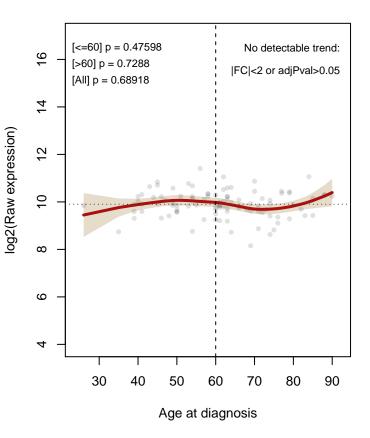
PCGF3 (non-ER binding)

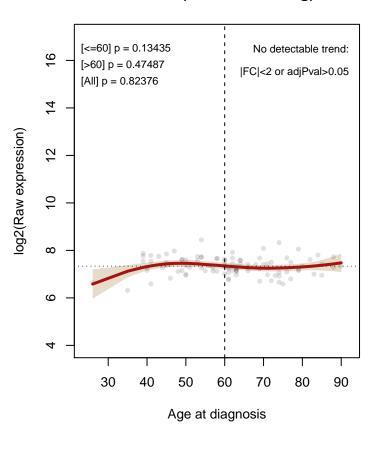






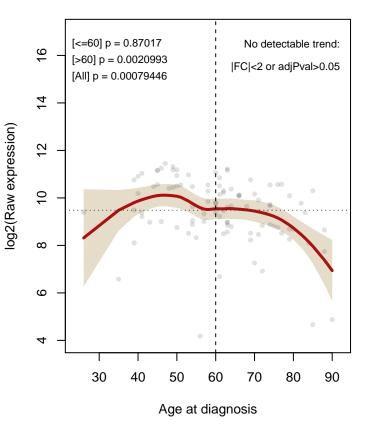
PCGF6 (non-ER binding)

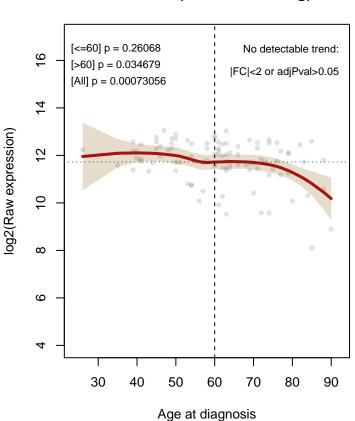




PDGFRA (non-ER binding)

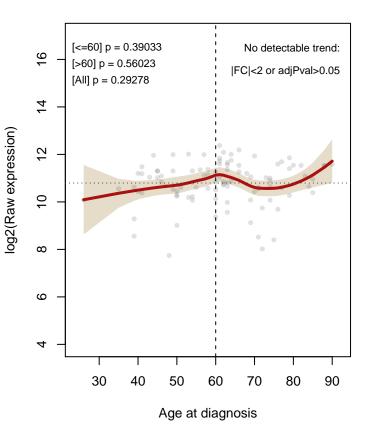
PDGFRB (non-ER binding)

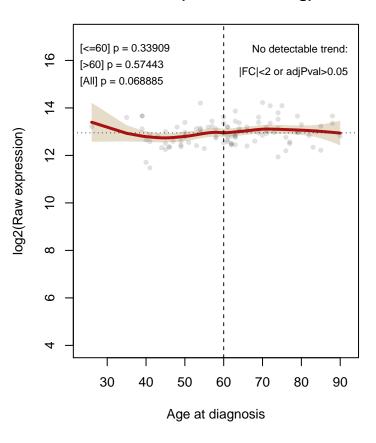






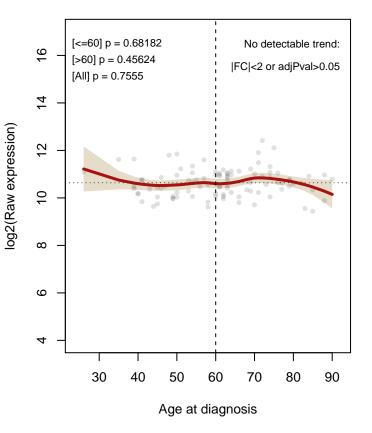
PEBP1 (non-ER binding)

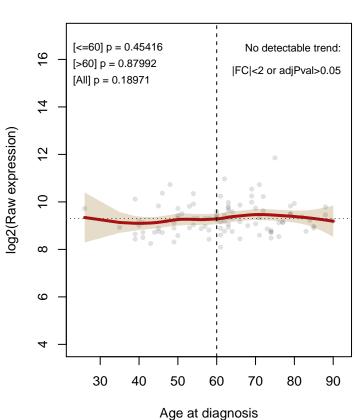


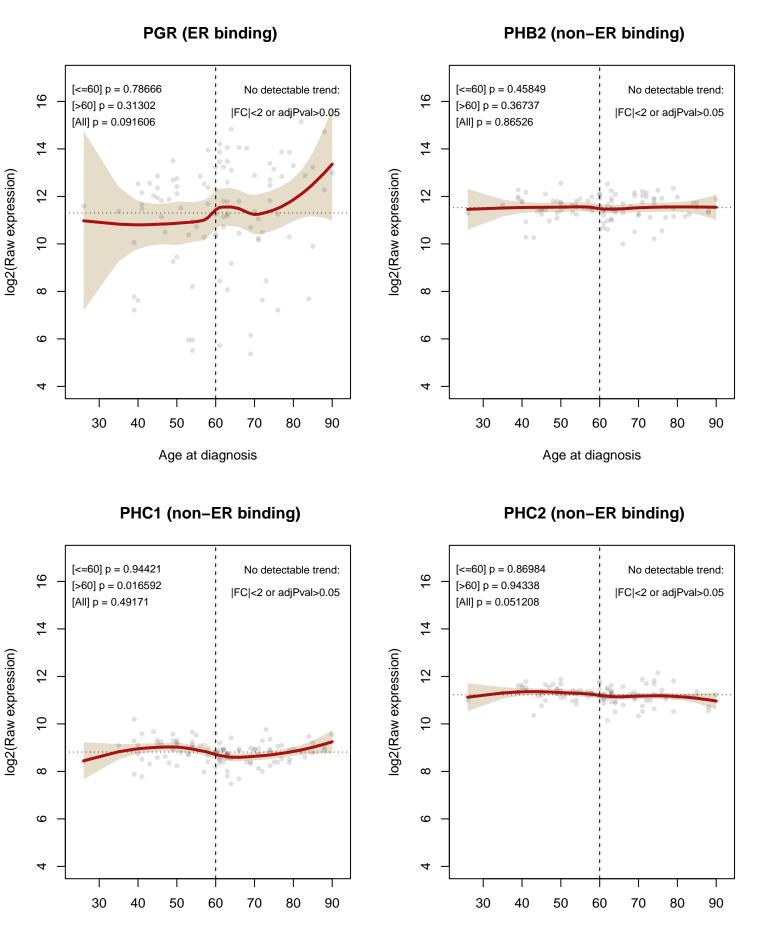


PELP1 (non-ER binding)

PGP (non-ER binding)







Age at diagnosis

Age at diagnosis

PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.81055No detectable trend: [<=60] p = 0.52661No detectable trend: 16 16 [>60] p = 0.43863 [>60] p = 0.37319 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.63663[All] p = 0.497154 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 PHF19 (non-ER binding) PIK3CA (non-ER binding) [<=60] p = 0.48691No detectable trend: [<=60] p = 0.65547No detectable trend: 16 16 [>60] p = 0.96335 [>60] p = 0.37864 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.74872[AII] p = 0.00263084 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω

9

30

40

50

60

Age at diagnosis

70

80

90

9

30

40

50

60

Age at diagnosis

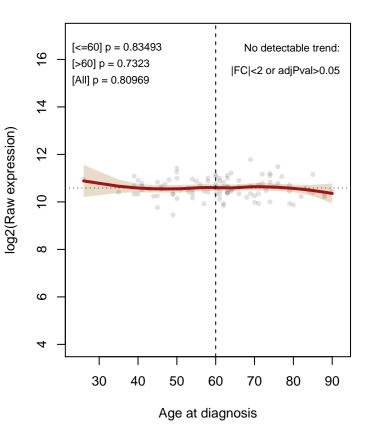
70

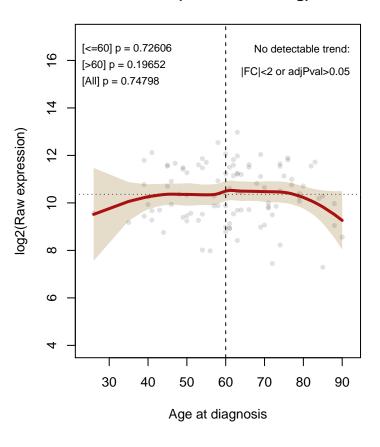
80

90



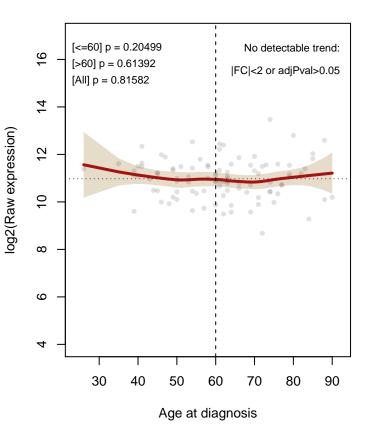
PLAU (non-ER binding)

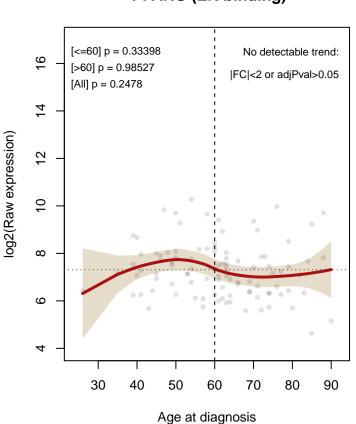


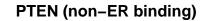


PODXL (non-ER binding)

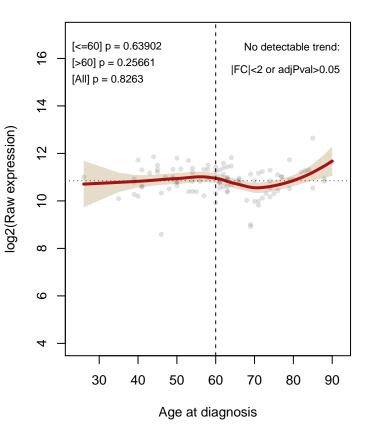
PPARG (ER binding)

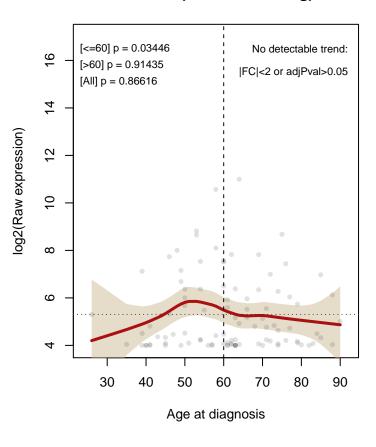






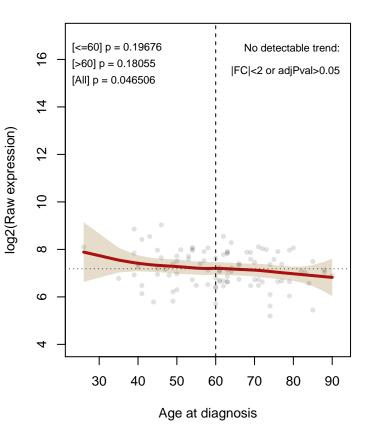
PYDC1 (non-ER binding)

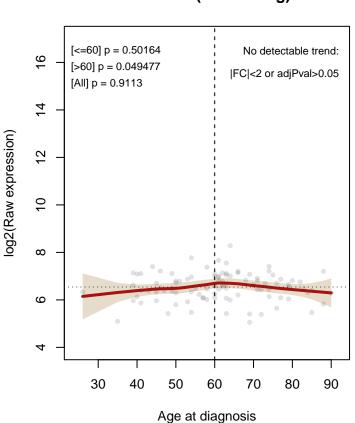




RAD51 (non-ER binding)

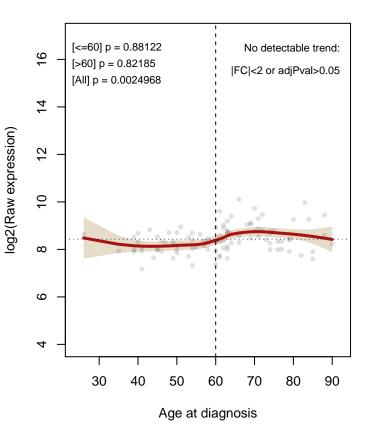
RAD51B (ER binding)

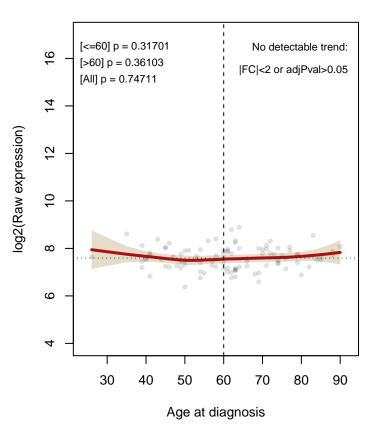




RAD51C (non-ER binding)

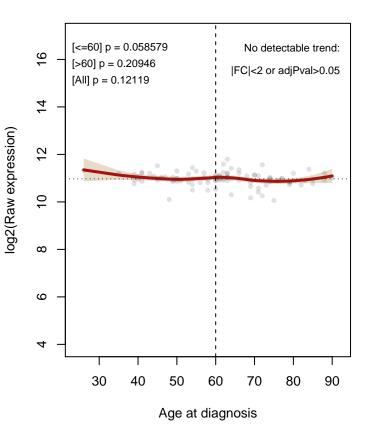
RAD51D (non-ER binding)

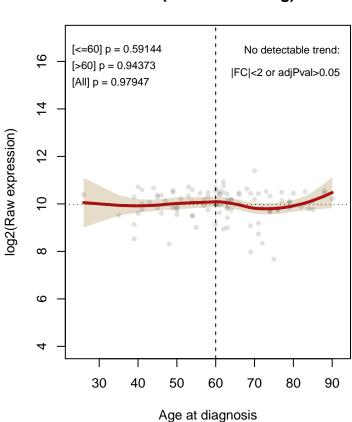


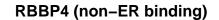


RAF1 (non-ER binding)

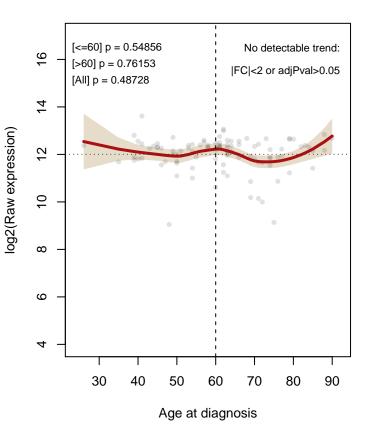
RB1 (non-ER binding)

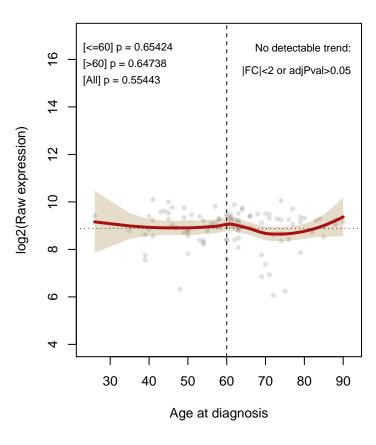






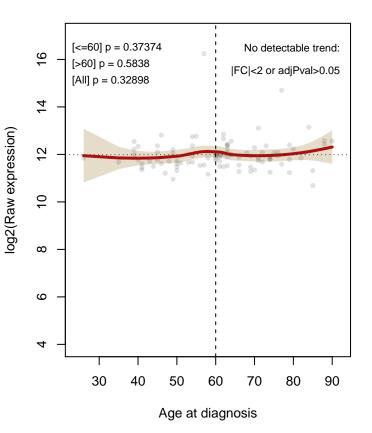
RBBP5 (non-ER binding)

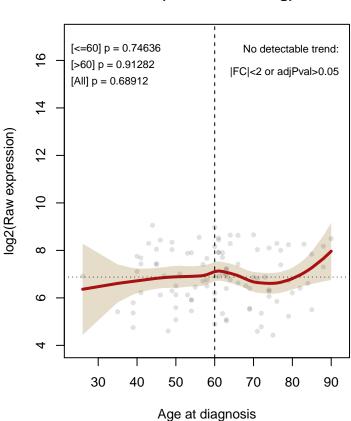


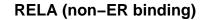


RBBP7 (non-ER binding)

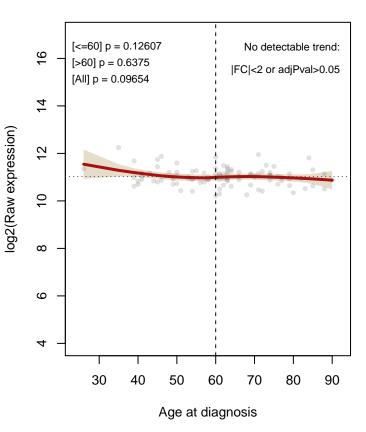
REL (non-ER binding)

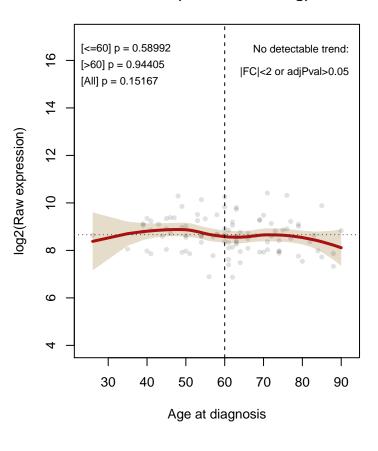






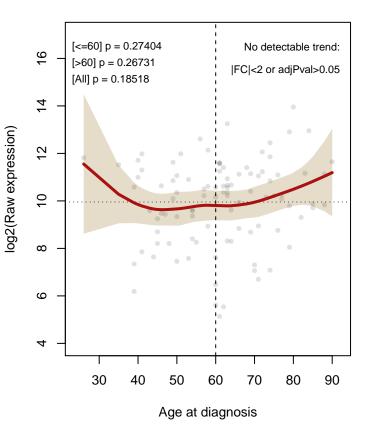
RELB (non-ER binding)

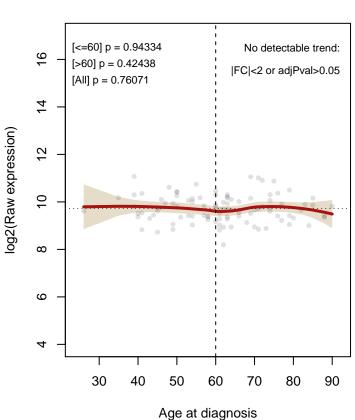




RET (ER binding)

RING1 (non-ER binding)





RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.60042No detectable trend: [<=60] p = 0.28227No detectable trend: 16 16 [>60] p = 0.54213 [>60] p = 0.77755 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.65542[AII] p = 0.130064 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.0088146No detectable trend: [<=60] p = 0.18207No detectable trend: 16 16 [>60] p = 0.1937 [>60] p = 0.8546|FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.16708[All] p = 0.505434 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

9

30

40

50

60

Age at diagnosis

70

80

90

9

30

40

50

60

Age at diagnosis

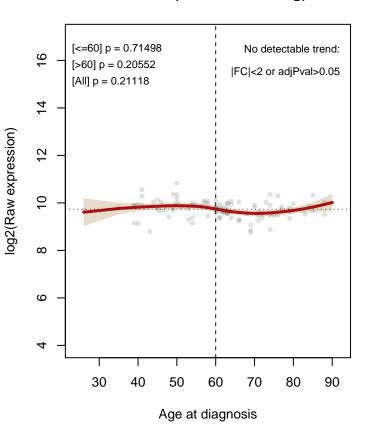
70

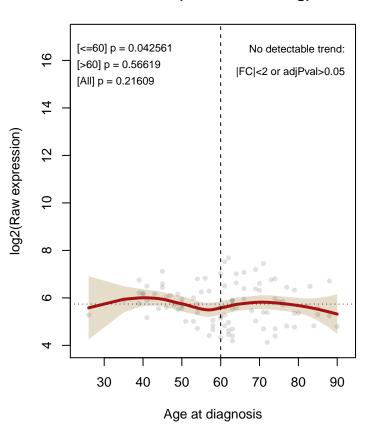
80

90

SCMH1 (non-ER binding)

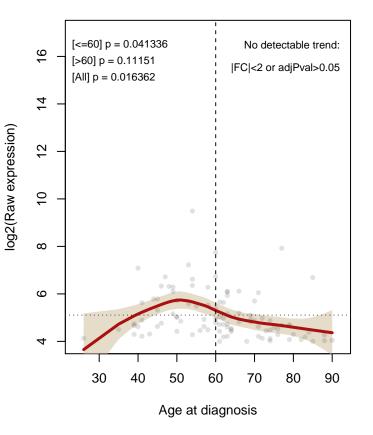
SCML2 (non-ER binding)

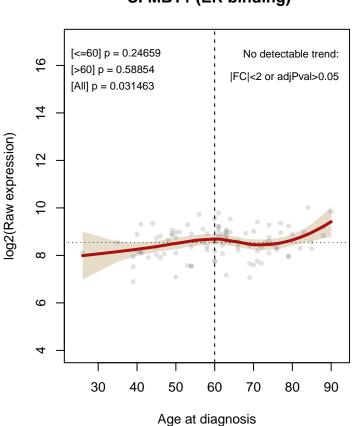




SCML4 (non-ER binding)

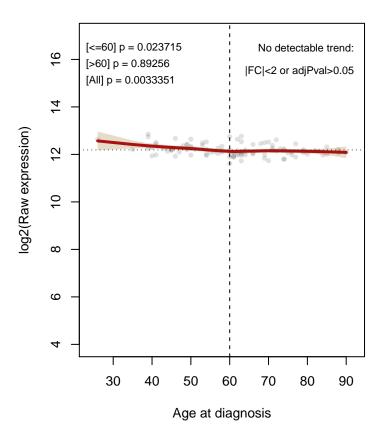
SFMBT1 (ER binding)

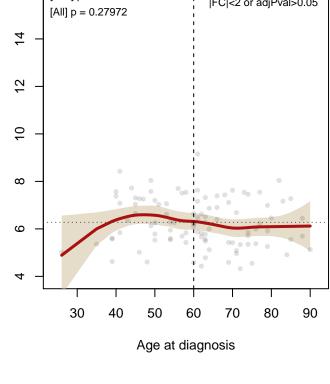




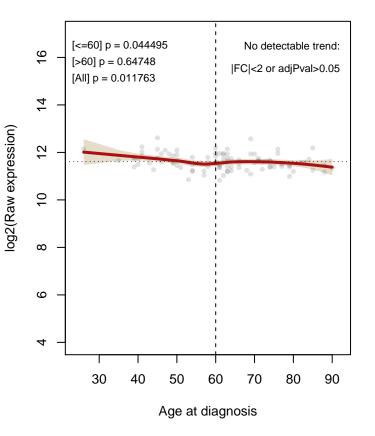
SFMBT2 (ER binding) [<=60] p = 0.86998No detectable trend: 16 [>60] p = 0.57435 |FC|<2 or adjPval>0.05 [AII] p = 0.279724 log2(Raw expression) 12

SFPQ (non-ER binding)

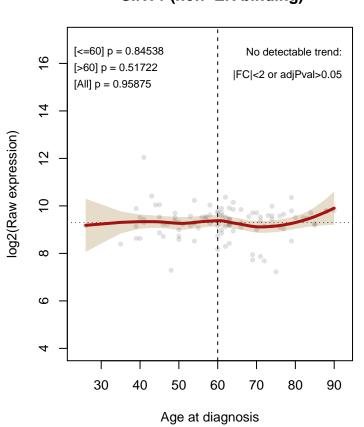




SHC1 (non-ER binding)

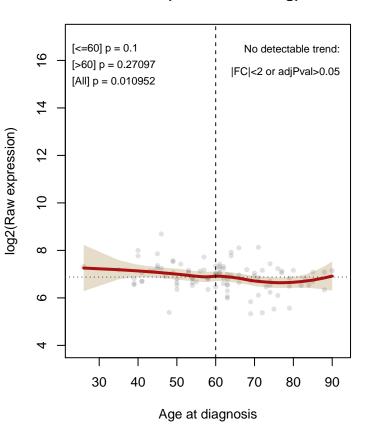


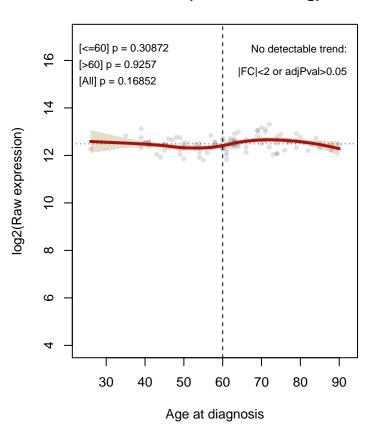
SIRT1 (non-ER binding)



SKP2 (non-ER binding)

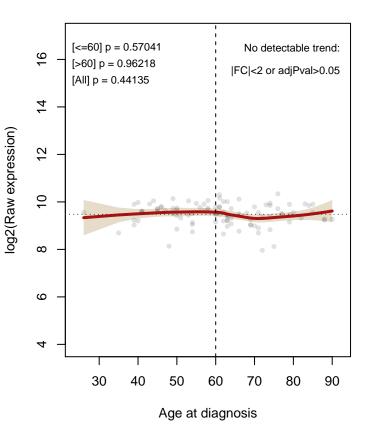
SLC25A3 (non-ER binding)

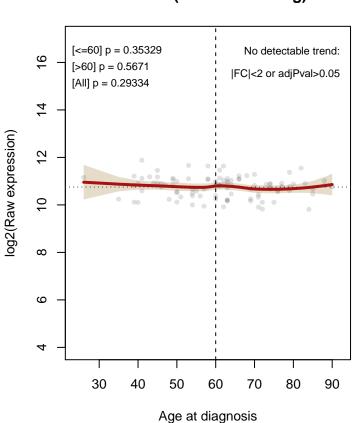




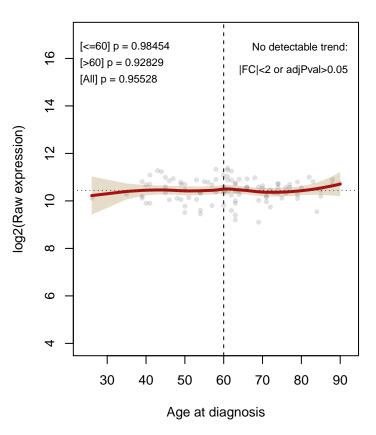
SMAD1 (non-ER binding)

SMAD2 (non-ER binding)



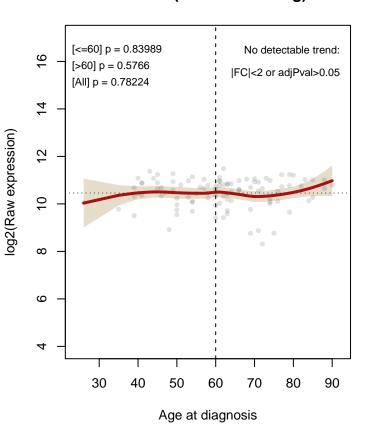


SMAD4 (non-ER binding)

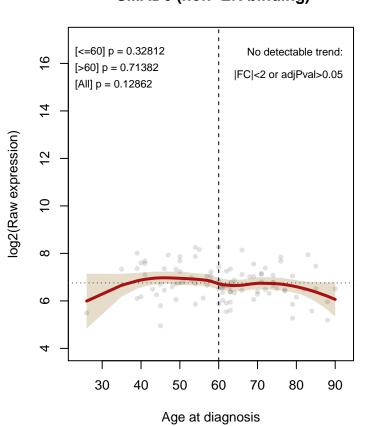


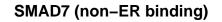
SMAD5 (non-ER binding)

Age at diagnosis

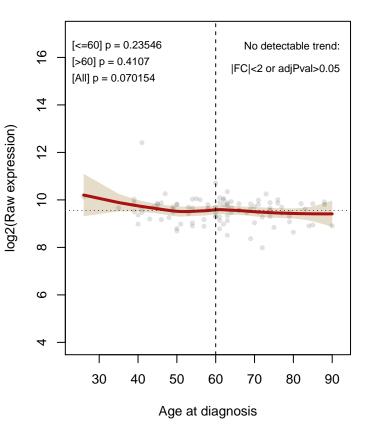


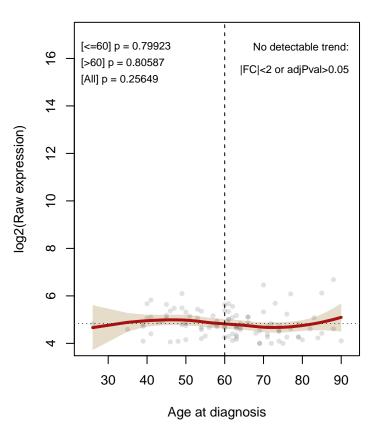
SMAD6 (non-ER binding)





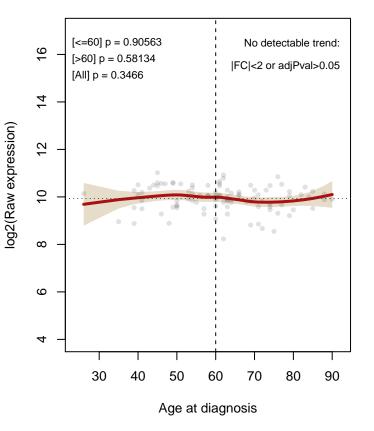
SMAD9 (non-ER binding)

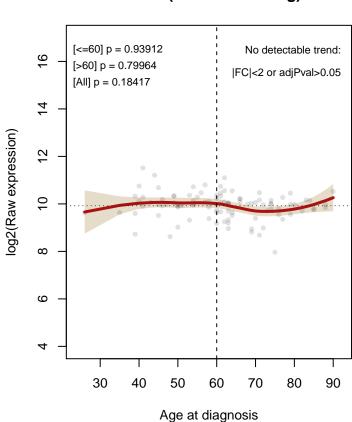


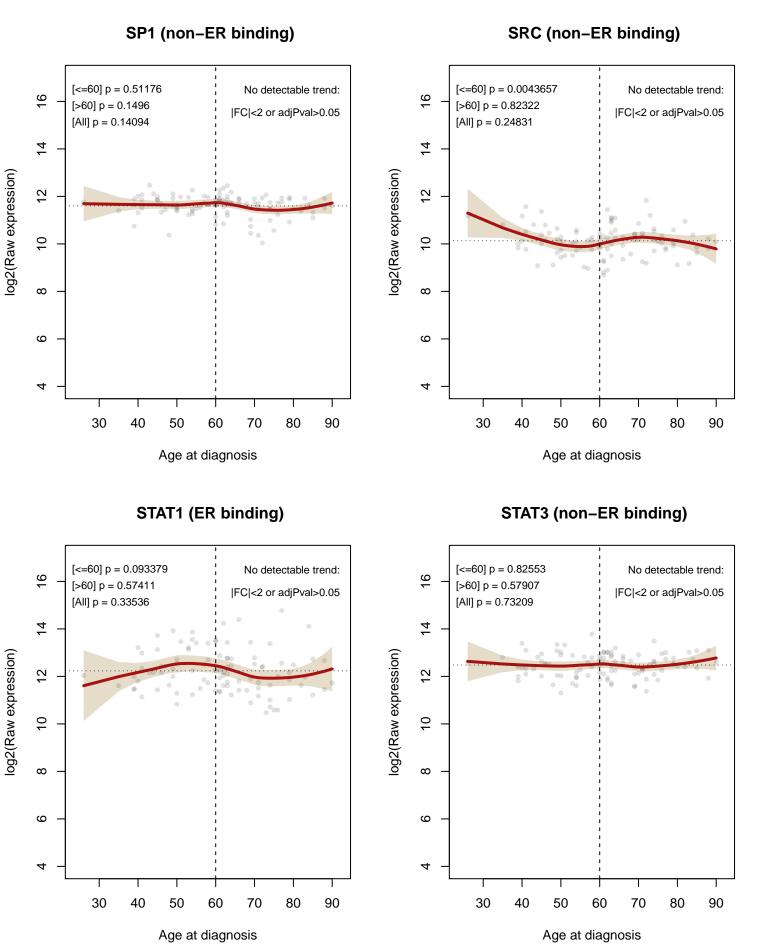


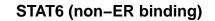
SOS1 (non-ER binding)

SOS2 (non-ER binding)

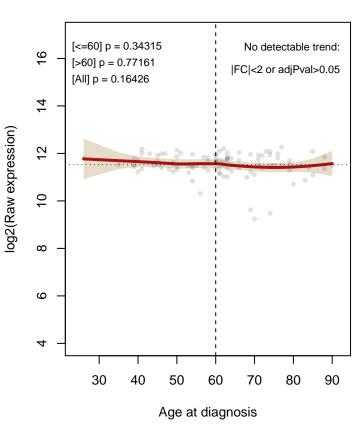


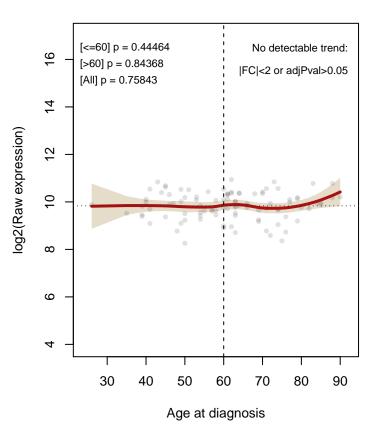






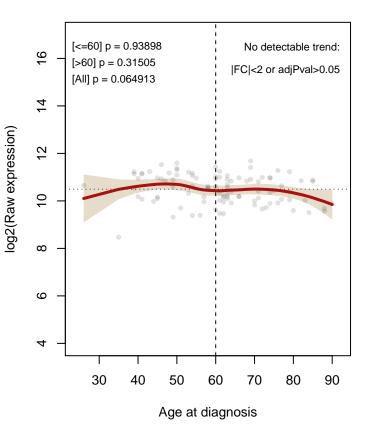
SUZ12 (non-ER binding)

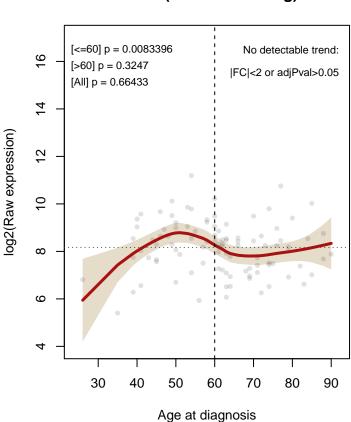




TCF3 (non-ER binding)

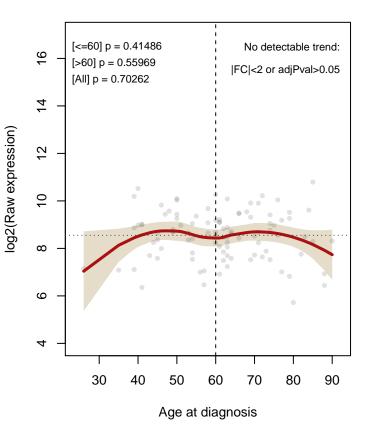
TCF7 (non-ER binding)

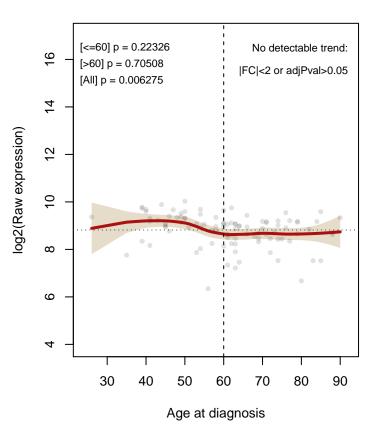






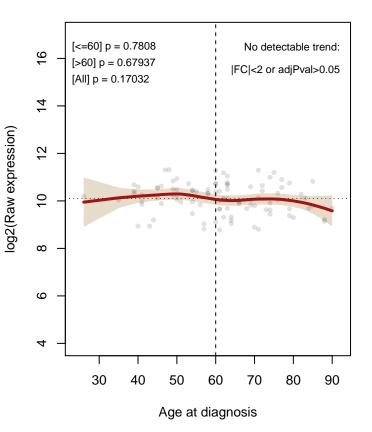
TCF7L2 (non-ER binding)

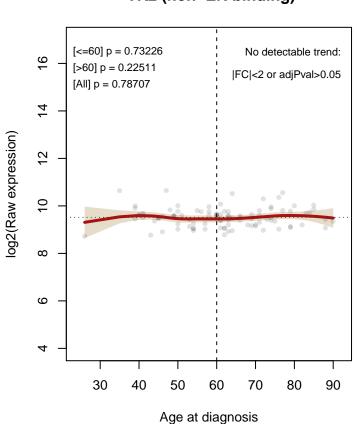


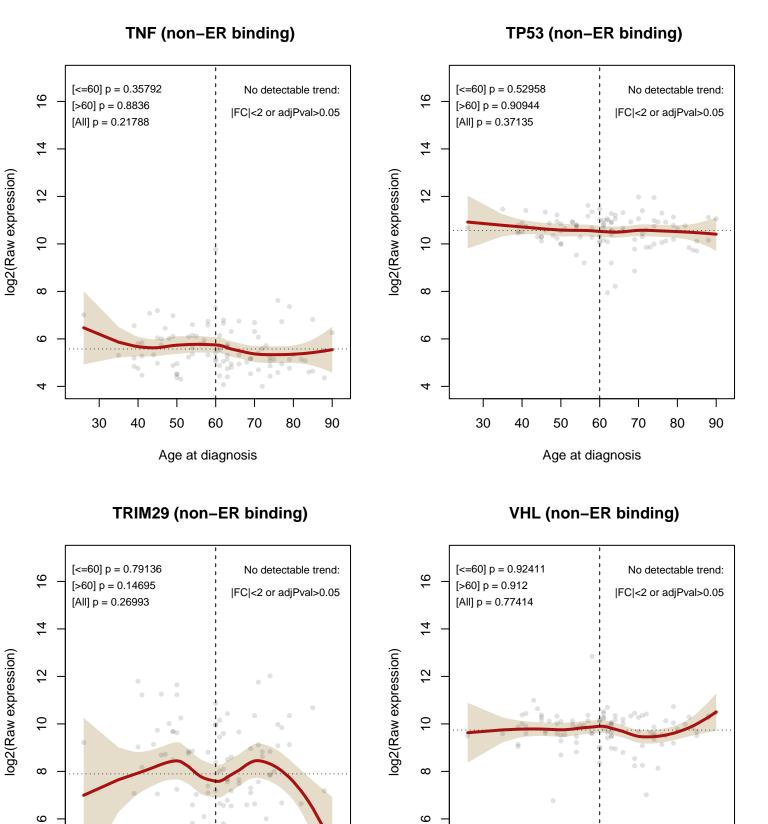


TGFB1 (non-ER binding)

TK2 (non-ER binding)



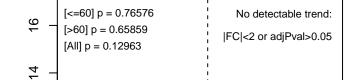


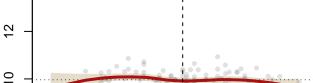


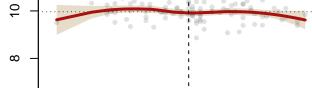
Age at diagnosis

Age at diagnosis









log2(Raw expression)

9

30

30

40

50

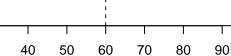
60

Age at diagnosis

70

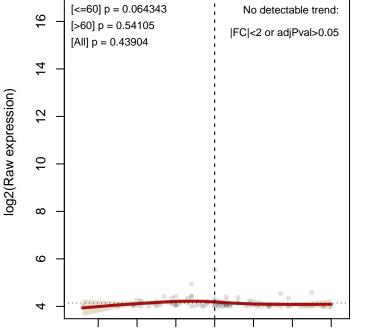
80

90

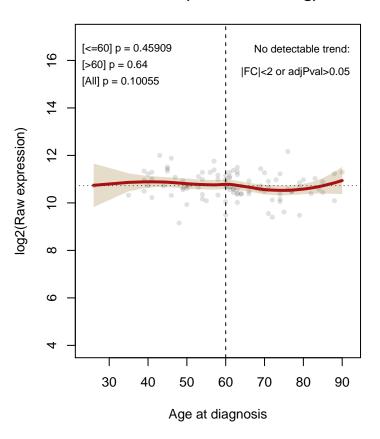


WNT1 (non-ER binding)

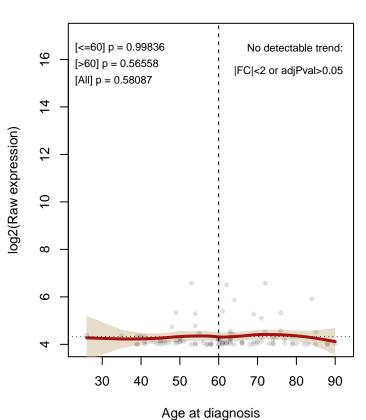
Age at diagnosis



WHSC1 (non-ER binding)



WNT3A (non-ER binding)

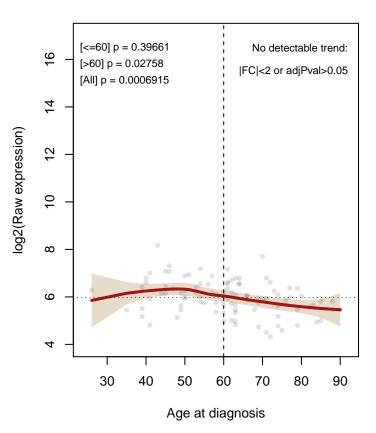


WNT7A (non-ER binding) [<=60] p = 0.11194No detectable trend: 16 [>60] p = 0.80107 |FC|<2 or adjPval>0.05 [All] p = 0.555154 log2(Raw expression) 12 10

ω

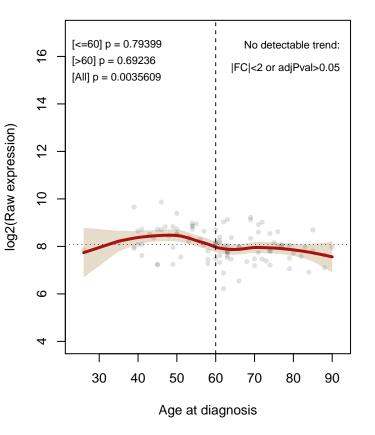
9

XRCC2 (non-ER binding)

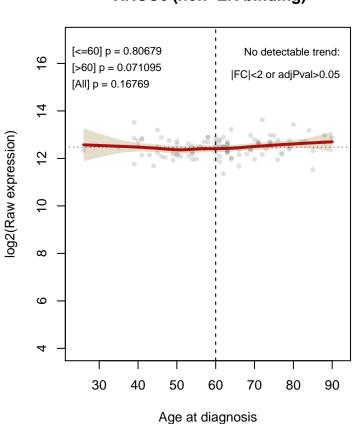


30 40 50 60 70 80 90 Age at diagnosis

XRCC3 (non-ER binding)

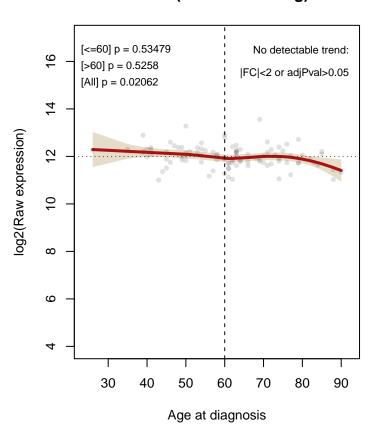


XRCC6 (non-ER binding)



YAF2 (non-ER binding)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

