

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.65451No detectable trend: [<=60] p = 0.80638No detectable trend: 16 16 [>60] p = 0.63189 [>60] p = 0.02709 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.69645[All] p = 0.696874 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 = 0.19413No detectable trend: [<=60] p = 0.8312No detectable trend: 16 16 [>60] p = 0.78238 [>60] p = 0.8344|FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.22163[AII] p = 0.996924 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

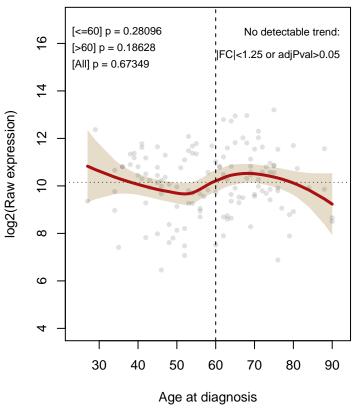
Age at diagnosis

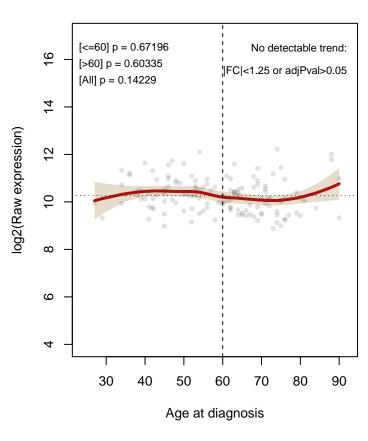
70

80



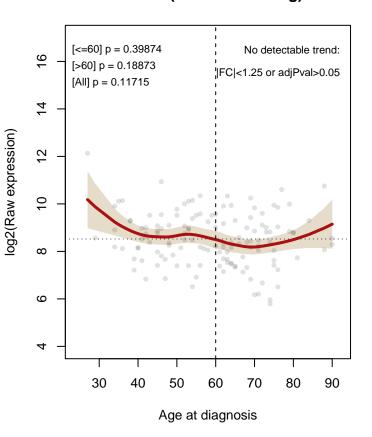
BCL3 (non-ER binding)

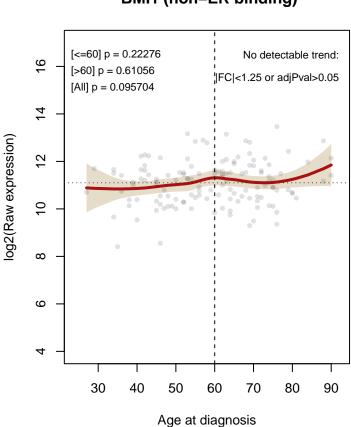




BIRC5 (non-ER binding)

BMI1 (non-ER binding)





BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.68381No detectable trend: [<=60] p = 0.71906No detectable trend: 16 16 [>60] p = 0.019556 [>60] p = 0.054486 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.97195[All] p = 0.114544 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 = 0.39206No detectable trend: [<=60] p = 0.55224No detectable trend: 16 16 [>60] p = 0.72163 [>60] p = 0.046372 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.2362[All] p = 0.698454 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

60

Age at diagnosis

70

80

CBX2 (non-ER binding) CBX4 (non-ER binding) [<=60] p = 0.021786 No detectable trend: [<=60] p = 0.20531No detectable trend: 16 16 [>60] p = 0.82602 [>60] p = 0.74559 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.52481[AII] p = 0.00983744 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.11722No detectable trend: [<=60] p = 0.72604No detectable trend: 16 16 [>60] p = 0.052939 [>60] p = 0.0030478 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.9575[All] p = 0.958264 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞

9

30

40

50

60

Age at diagnosis

70

80

90

9

30

40

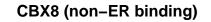
50

60

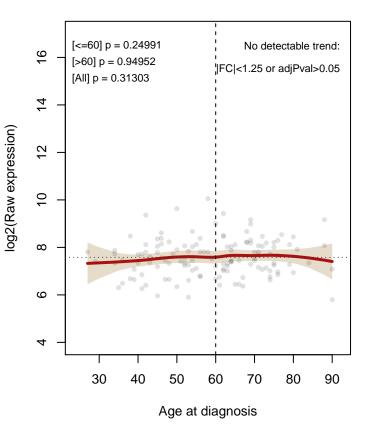
Age at diagnosis

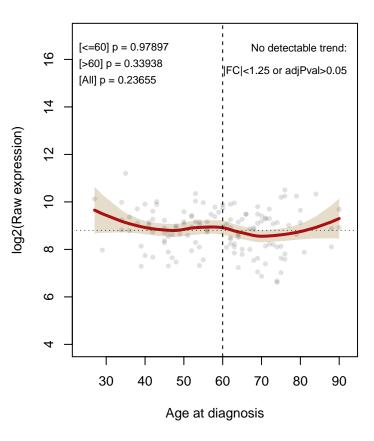
70

80



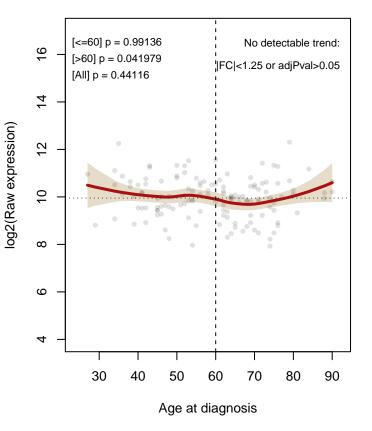
CCNA2 (non-ER binding)

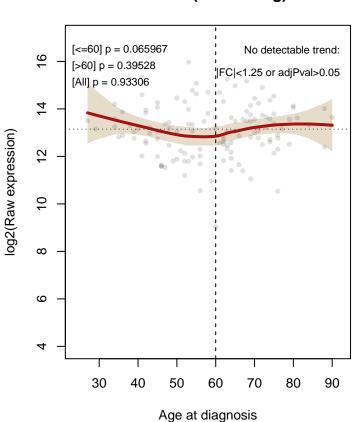


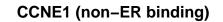


CCNB1 (non-ER binding)

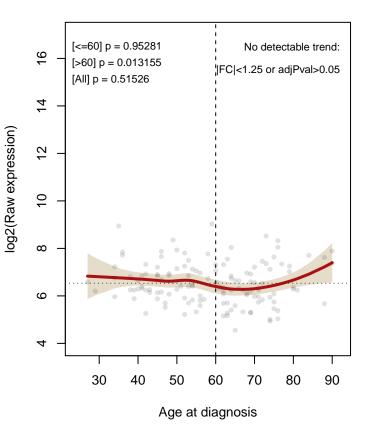
CCND1 (ER binding)

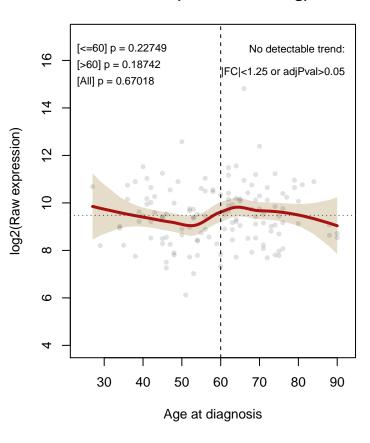






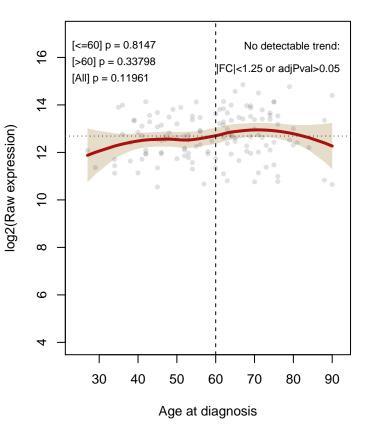
CD163 (non-ER binding)

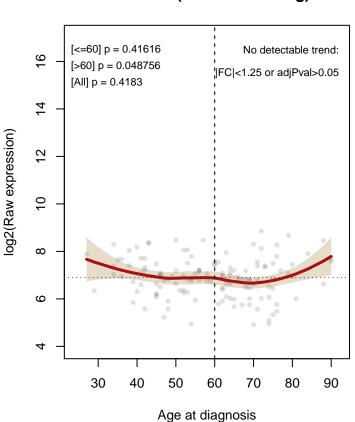


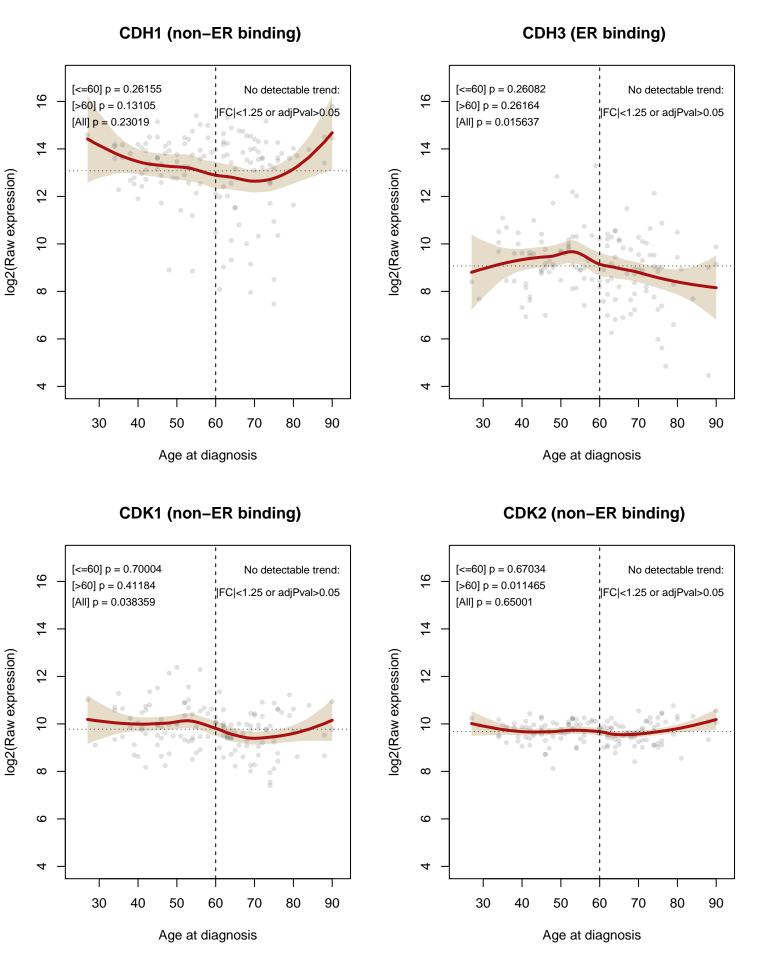


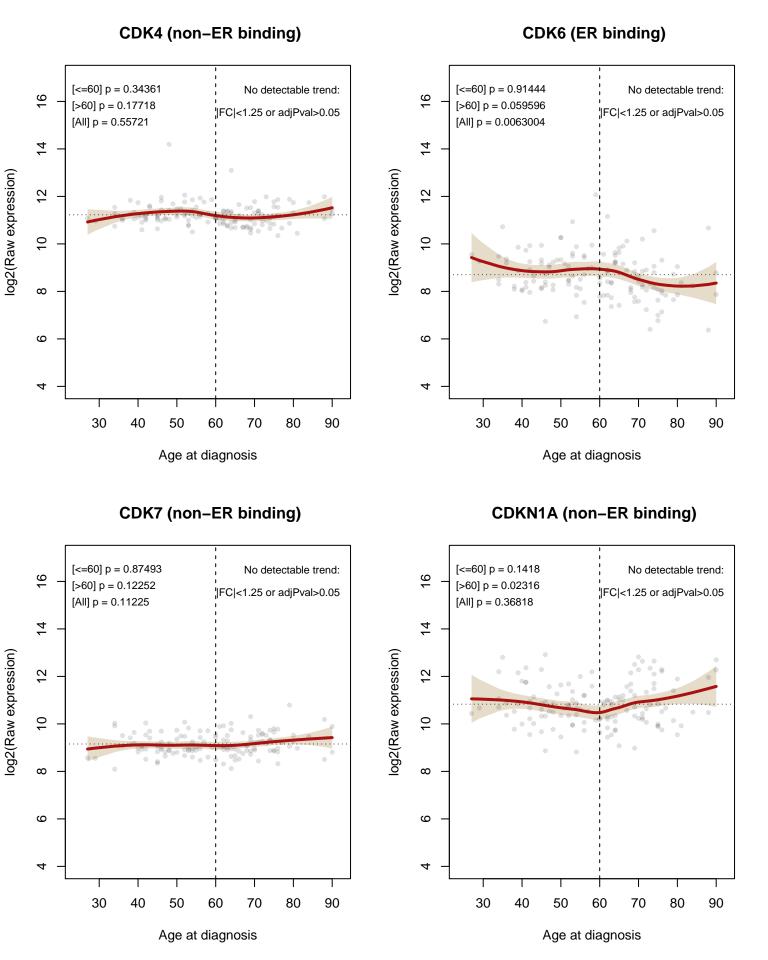
CD44 (non-ER binding)

CDC25C (non-ER binding)



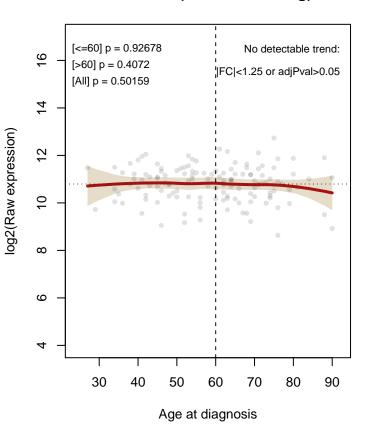


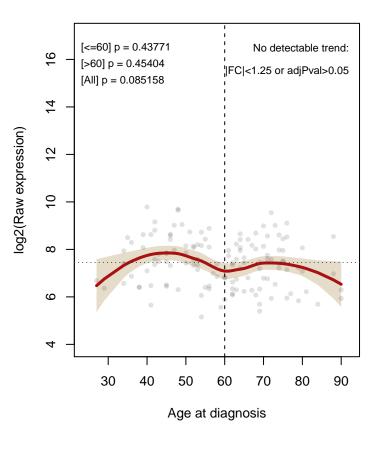




CDKN1B (non-ER binding)

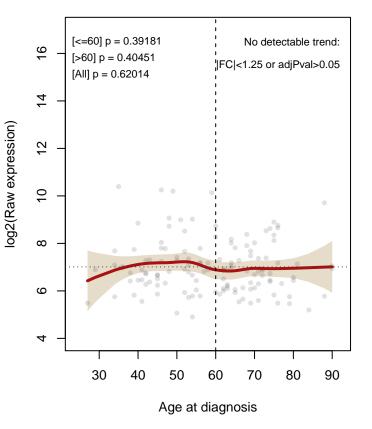
CDKN1C (non-ER binding)

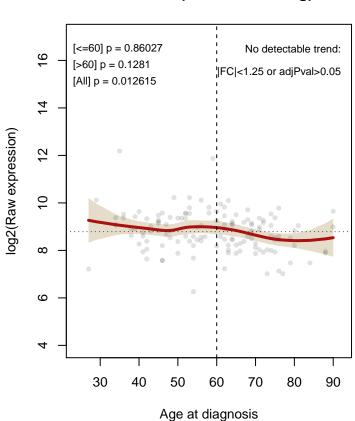


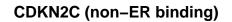


CDKN2A (non-ER binding)

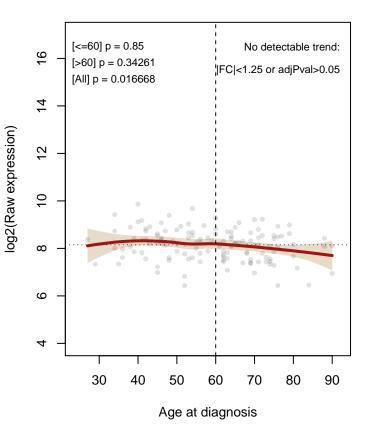
CDKN2B (non-ER binding)

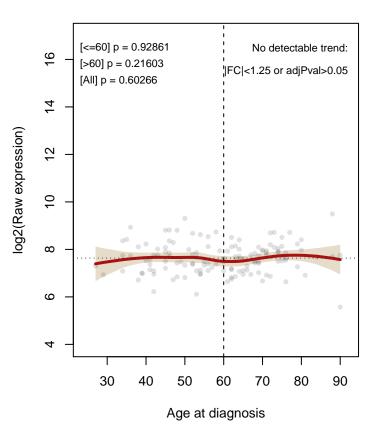






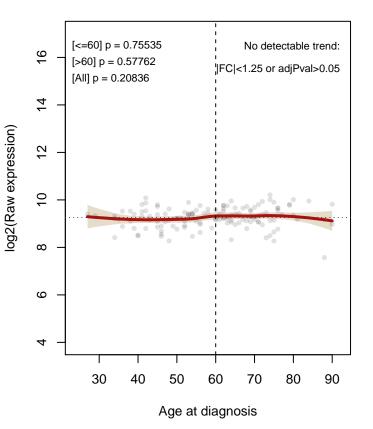
CDKN2D (non-ER binding)

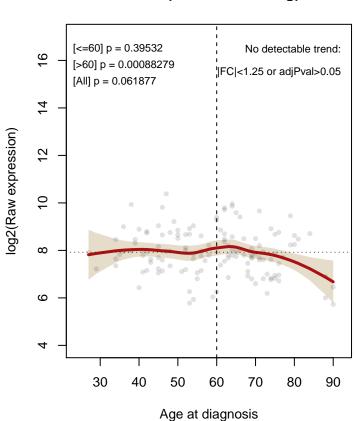




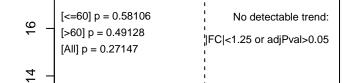
CHUK (non-ER binding)

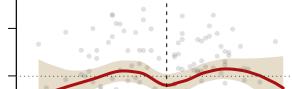
CIITA (non-ER binding)

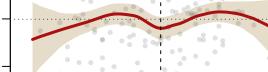




CLDN3 (non-ER binding)







log2(Raw expression)

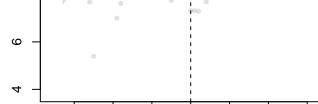
12

10

 ∞

30

40



Age at diagnosis

50

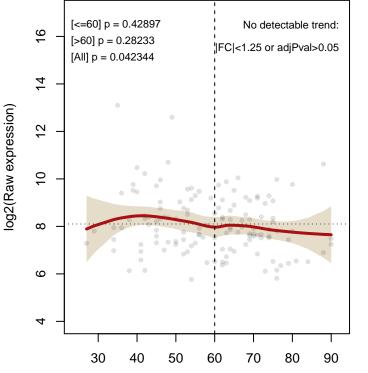
CRYAB (non-ER binding)

60

70

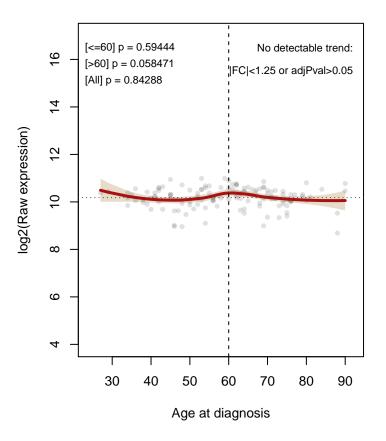
80

90

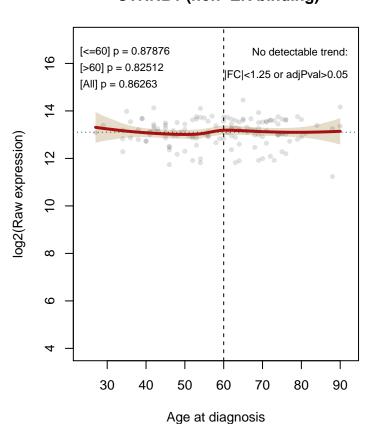


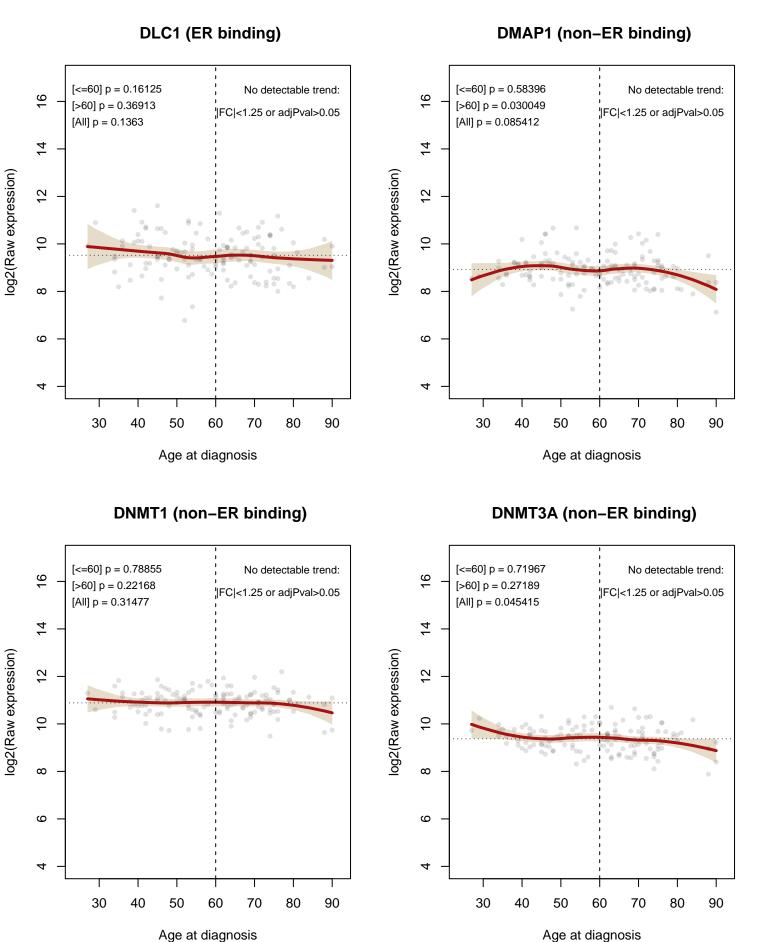
Age at diagnosis

CREB1 (non-ER binding)



CTNNB1 (non-ER binding)





DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.087892 No detectable trend: [<=60] p = 0.58797No detectable trend: 16 16 [>60] p = 0.85113 [>60] p = 0.094779 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.56761[All] p = 0.0673174 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis E2F1 (non-ER binding) E2F2 (non-ER binding) [<=60] p = 0.31059No detectable trend: [<=60] p = 0.31079No detectable trend: 16 16 [>60] p = 0.21918 [>60] p = 0.41214 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.35528[All] p = 0.0304244 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

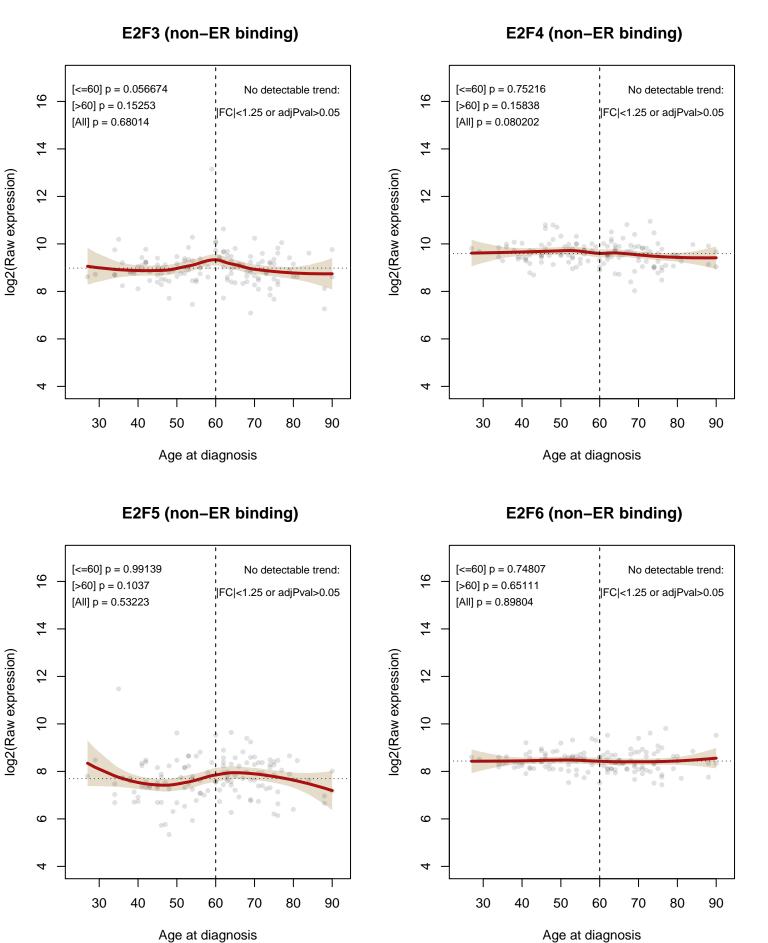
50

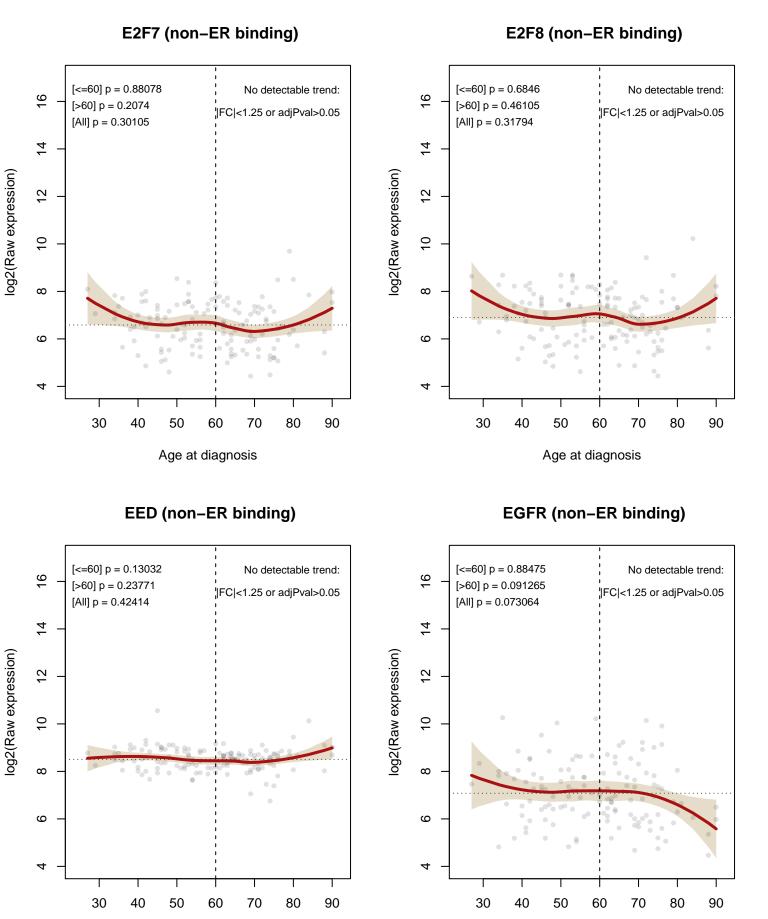
60

Age at diagnosis

70

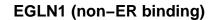
80



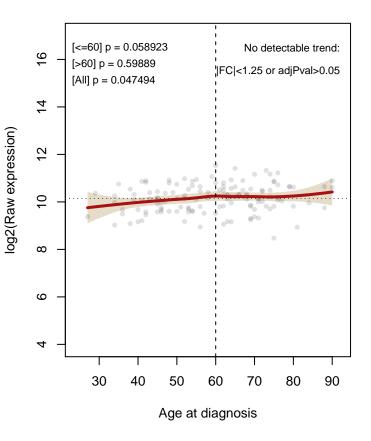


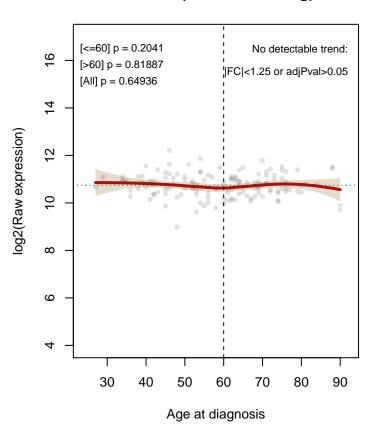
Age at diagnosis

Age at diagnosis



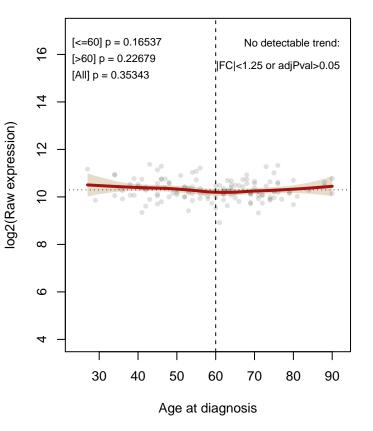
EHMT2 (non-ER binding)

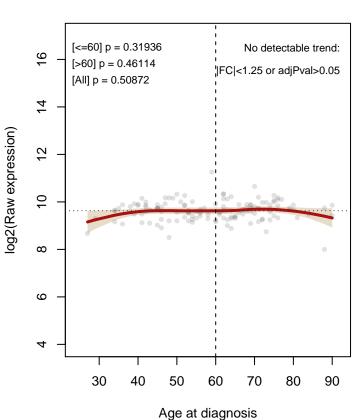




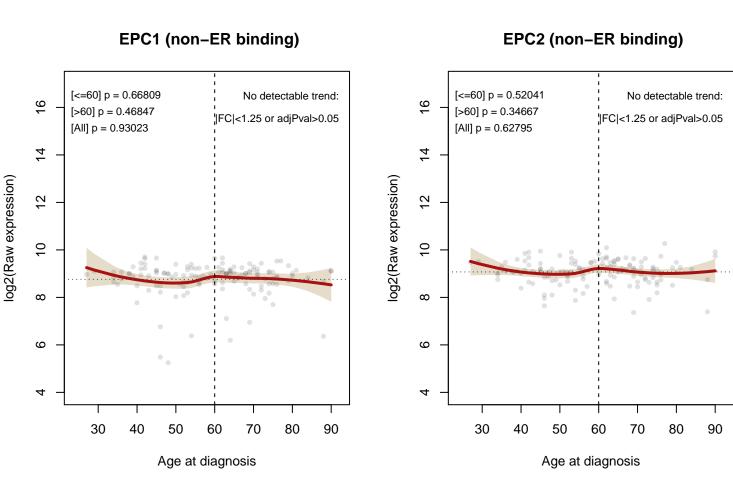
ELAC2 (non-ER binding)

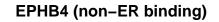
ELK1 (non-ER binding)



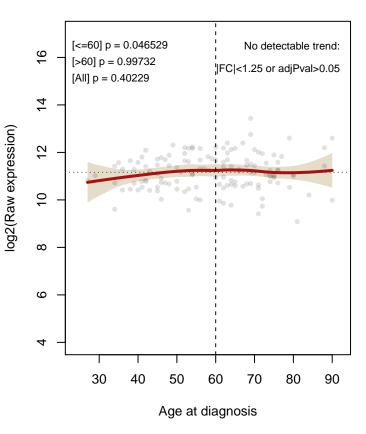


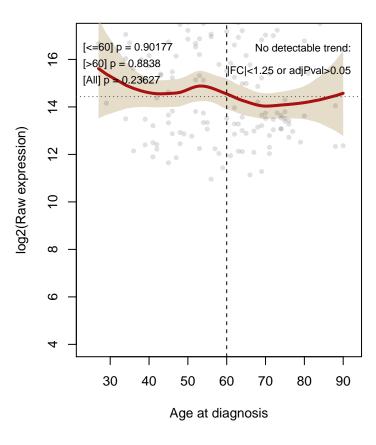
EP300 (non-ER binding) **EPAS1** (non-ER binding) [<=60] p = 0.99897No detectable trend: [<=60] p = 0.03226No detectable trend: 16 16 [>60] p = 0.32764 [>60] p = 0.002955 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.61626[AII] p = 0.90054 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 Age at diagnosis Age at diagnosis **EPC1** (non-ER binding) [<=60] p = 0.66809No detectable trend: [<=60] p = 0.52041





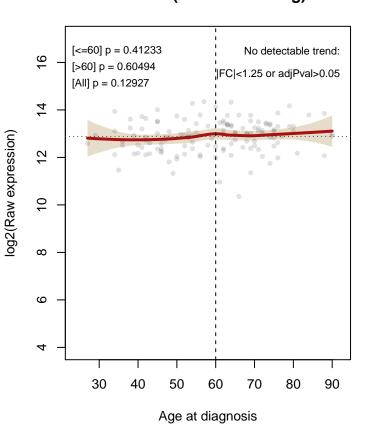
ERBB2 (non-ER binding)

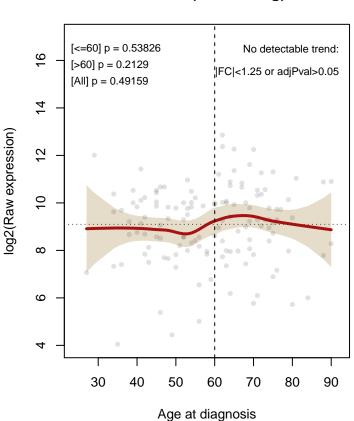


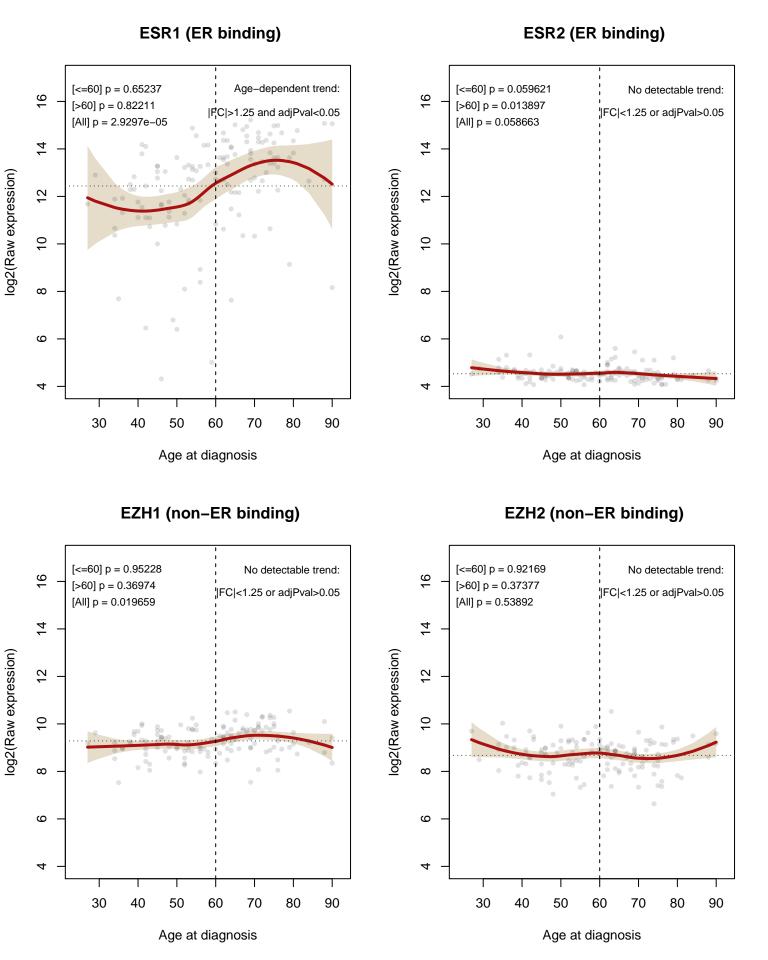


ERBB3 (non-ER binding)

ERBB4 (ER binding)







FOSL1 (non-ER binding) FOS (non-ER binding) [<=60] p = 0.11432No detectable trend: [<=60] p = 0.35442No detectable trend: 16 16 [>60] p = 0.29356 [>60] p = 0.50688 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.1349[All] p = 0.433864 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **FOXC1 (ER binding)** FOXA1 (ER binding) [<=60] p = 0.50444No detectable trend: [<=60] p = 0.68762No detectable trend: 16 16 [>60] p = 0.58216 [>60] p = 0.79594 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.21538[AII] p = 0.500794 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

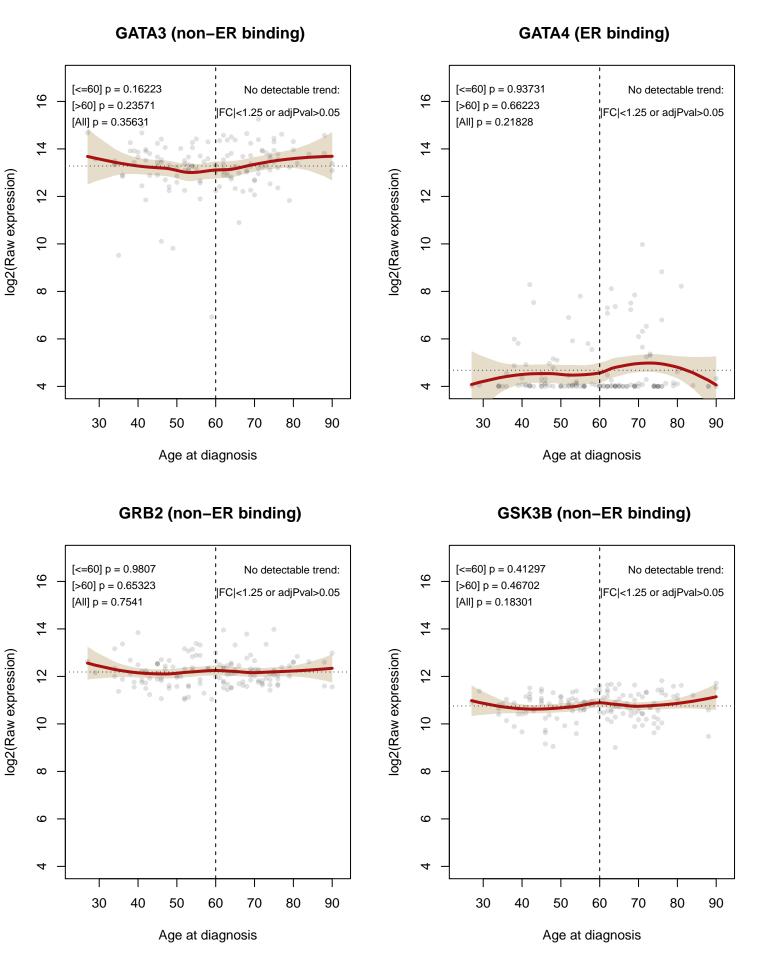
50

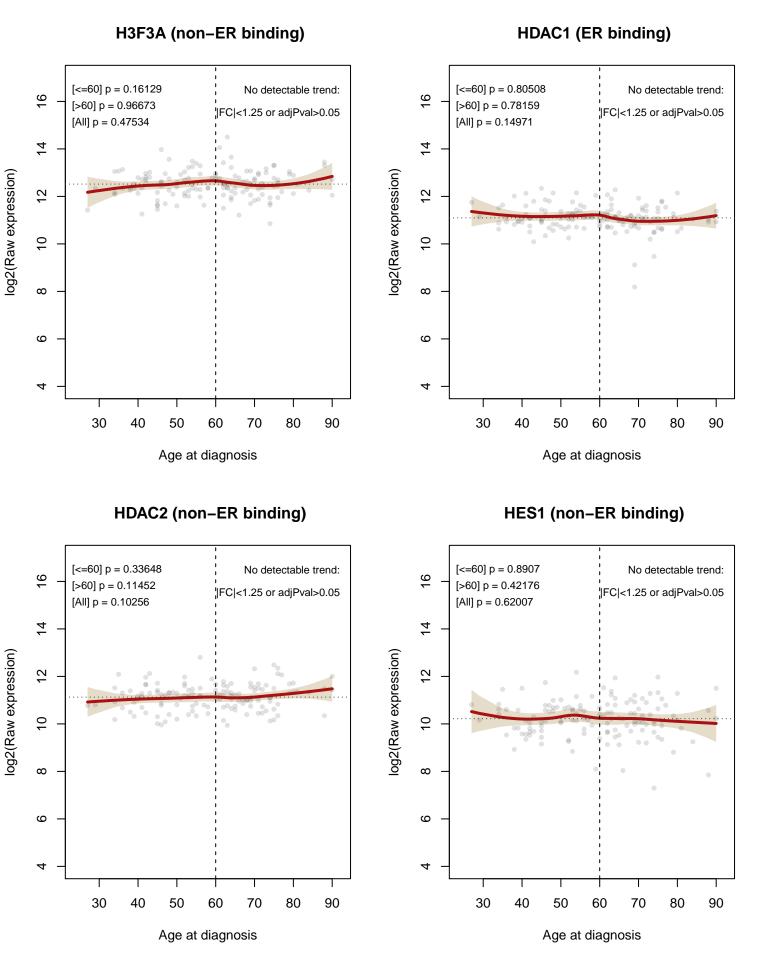
60

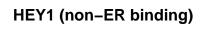
Age at diagnosis

70

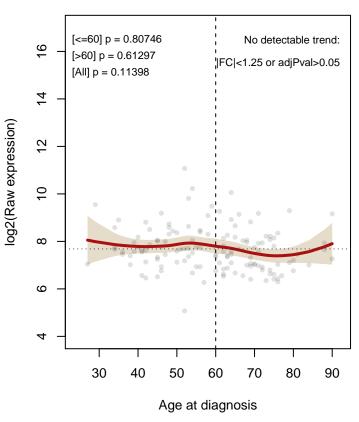
80

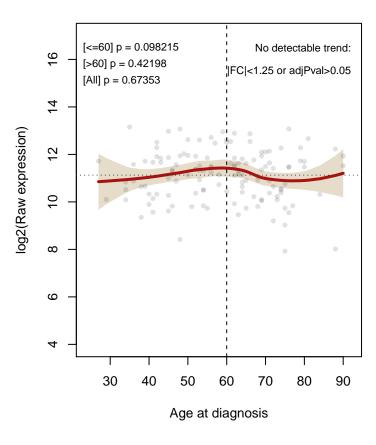






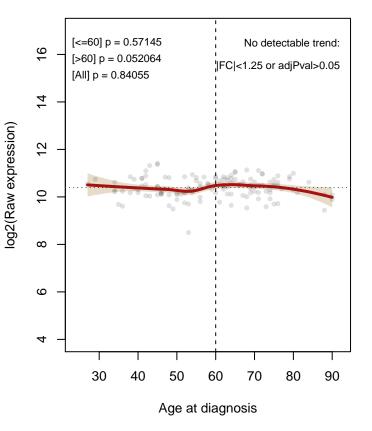
HIF1A (non-ER binding)

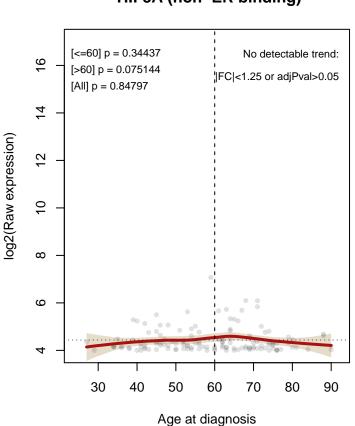




HIF1AN (non-ER binding)

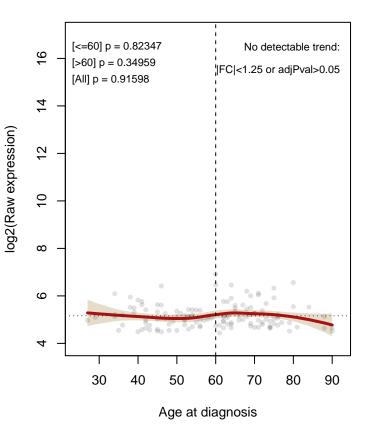
HIF3A (non-ER binding)

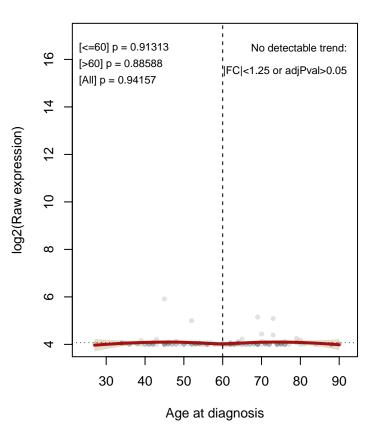






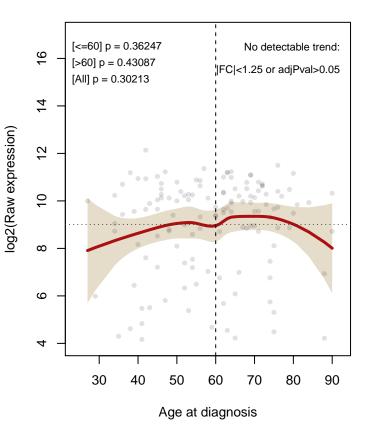
HNF1B (non-ER binding)

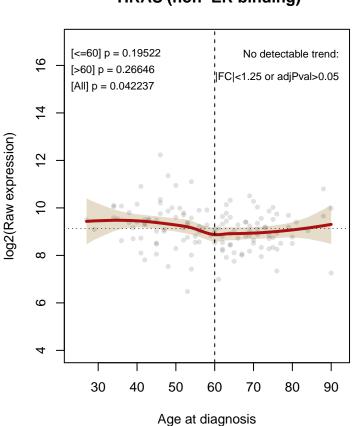




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.18059No detectable trend: [<=60] p = 0.089954 No detectable trend: 16 16 [>60] p = 0.033839 [>60] p = 0.09378 FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.4508[All] p = 0.510024 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.35004No detectable trend: [<=60] p = 0.91913 No detectable trend: 16 16 [>60] p = 0.78615 [>60] p = 0.14221 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.51687[All] p = 0.747294 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

60

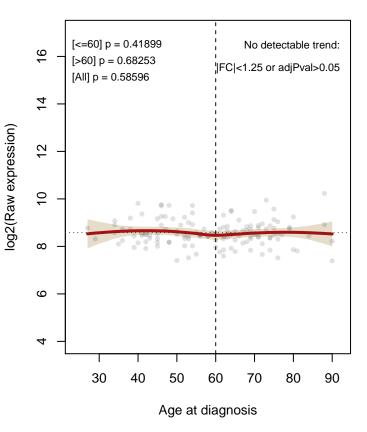
Age at diagnosis

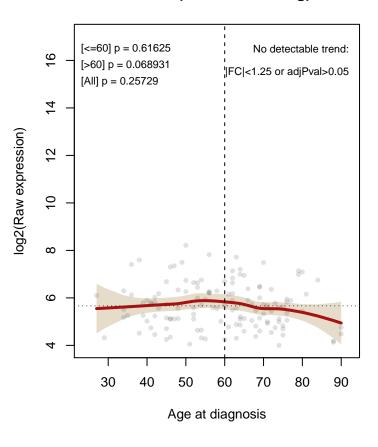
70

80



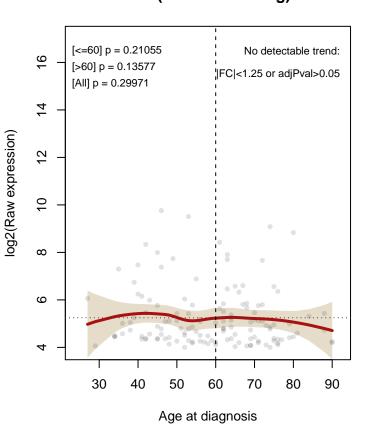
IL2RA (non-ER binding)

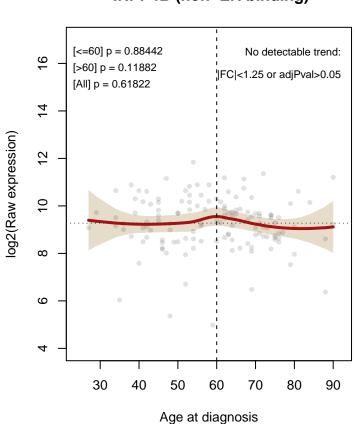


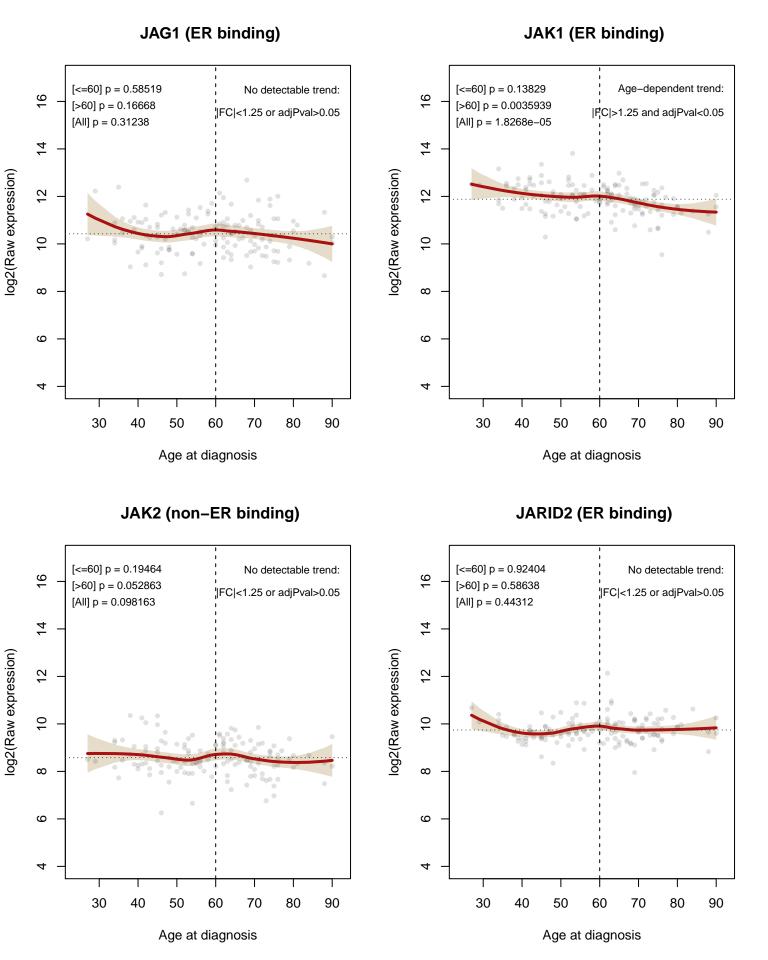


IL6 (non-ER binding)

INPP4B (non-ER binding)







JUN (non-ER binding) KDM2B (non-ER binding) [<=60] p = 0.23442No detectable trend: [<=60] p = 0.1755No detectable trend: 16 16 [>60] p = 0.73383 [>60] p = 0.052416 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.16804[AII] p = 0.00953094 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis KDM6A (non-ER binding) KDM6B (non-ER binding) [<=60] p = 0.55831No detectable trend: [<=60] p = 0.90427No detectable trend: 16 16 [>60] p = 0.65607 [>60] p = 0.029794 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.359[All] p = 0.435514 4 log2(Raw expression) log2(Raw expression) 12 12 19 10

 ∞

9

30

40

50

60

Age at diagnosis

70

80

90

 ∞

9

30

40

50

60

Age at diagnosis

70

80



16

4

12

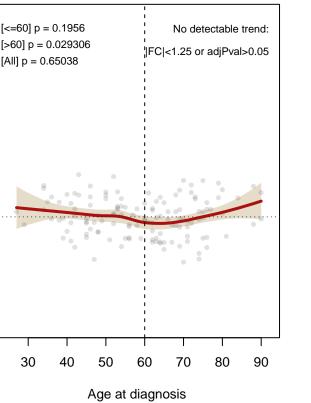
10

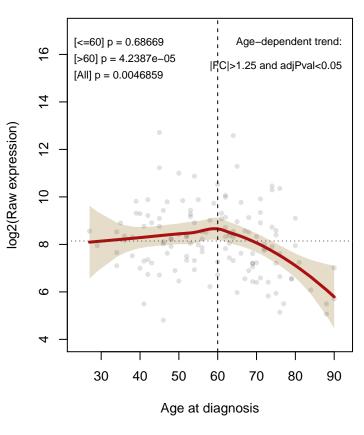
 ∞

9

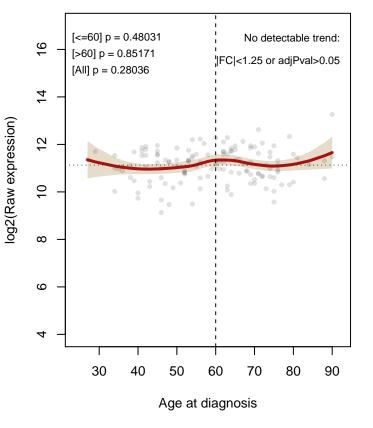
log2(Raw expression)

KIT (non-ER binding)

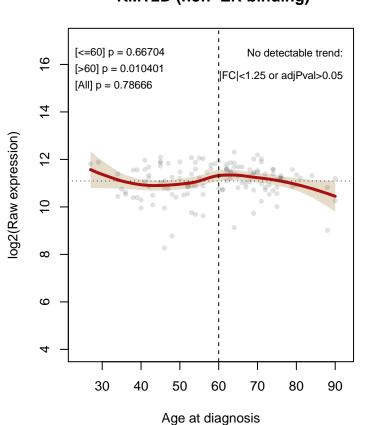




KMT2C (non-ER binding)

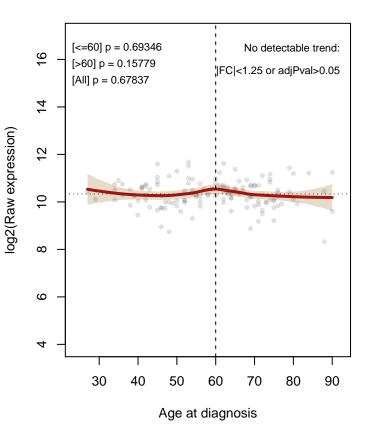


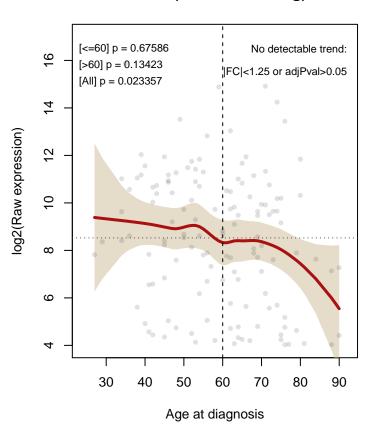
KMT2D (non-ER binding)





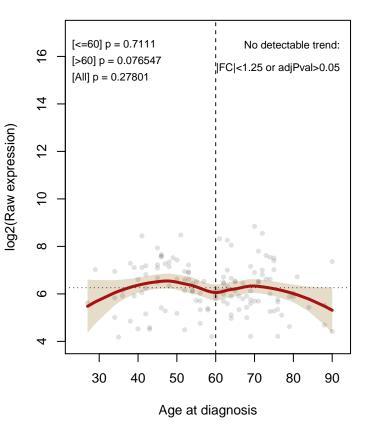
KRT5 (non-ER binding)

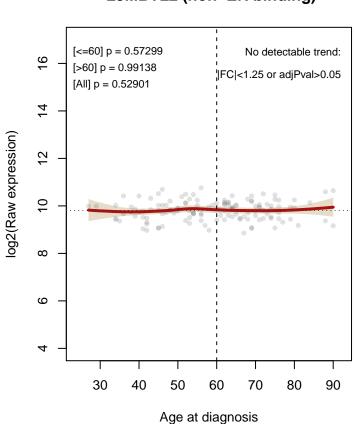




L3MBTL1 (non-ER binding)

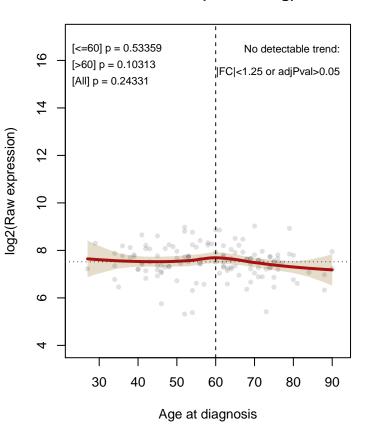
L3MBTL2 (non-ER binding)

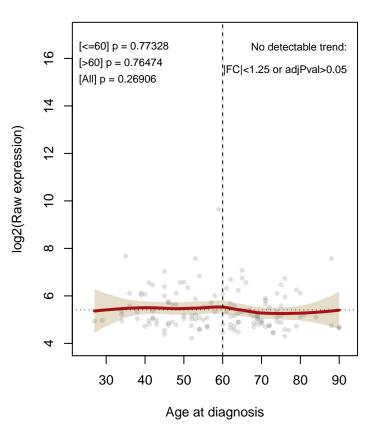




L3MBTL3 (ER binding)

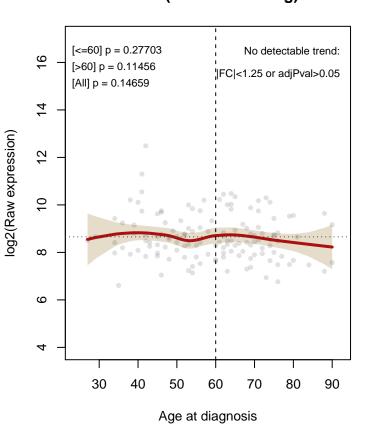
L3MBTL4 (non-ER binding)

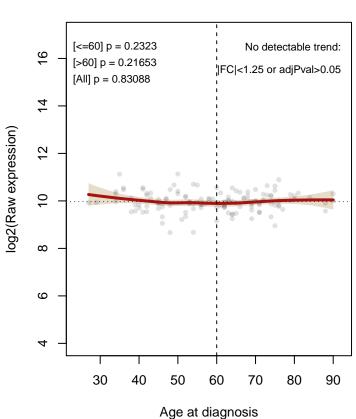




LEF1 (non-ER binding)

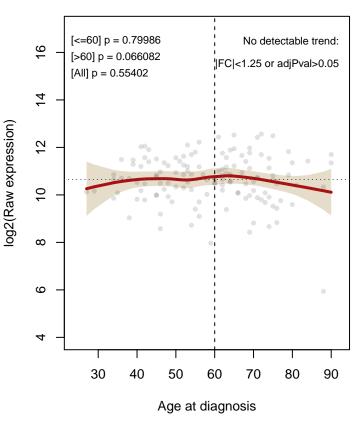
MAP2K1 (non-ER binding)

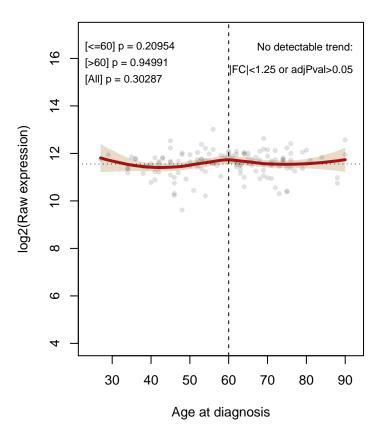






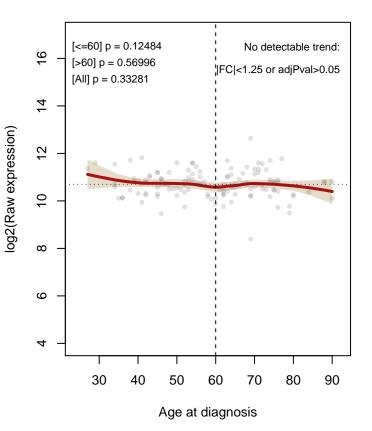
MAPK1 (non-ER binding)

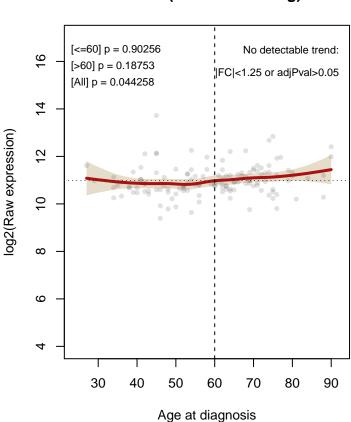




MAPK3 (non-ER binding)

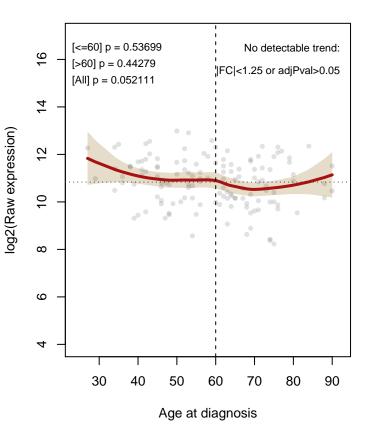
MDM2 (non-ER binding)

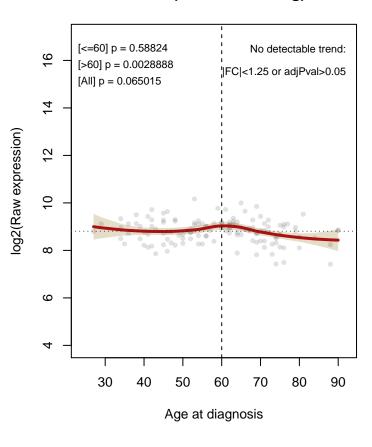






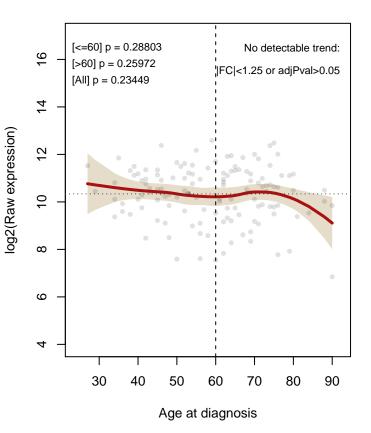
MTF2 (non-ER binding)

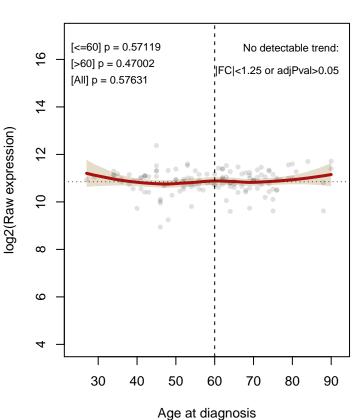




MYC (non-ER binding)

NCOA6 (non-ER binding)





NCOR1 (non-ER binding) **NES (non-ER binding)** [<=60] p = 0.23377No detectable trend: [<=60] p = 0.55189No detectable trend: 16 16 [>60] p = 0.26335 [>60] p = 0.1393 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.41611[All] p = 0.315564 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 NFKB1 (non-ER binding) NFKB2 (non-ER binding) [<=60] p = 0.78073No detectable trend: [<=60] p = 0.11016No detectable trend: 16 16 [>60] p = 0.055477 [>60] p = 0.07529 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.1469[AII] p = 0.00889734 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

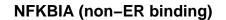
60

Age at diagnosis

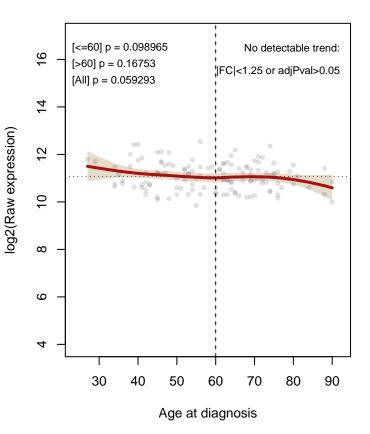
70

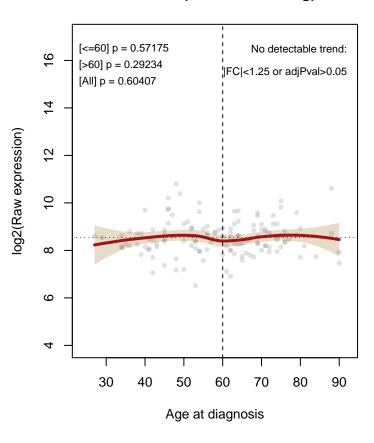
80

90



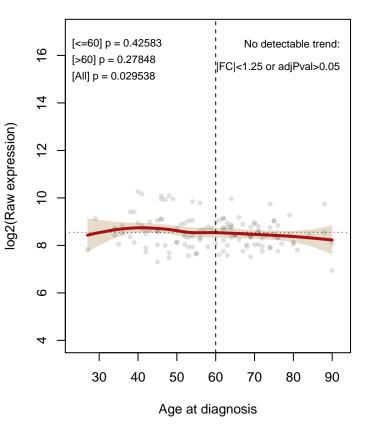
NFKBIB (non-ER binding)

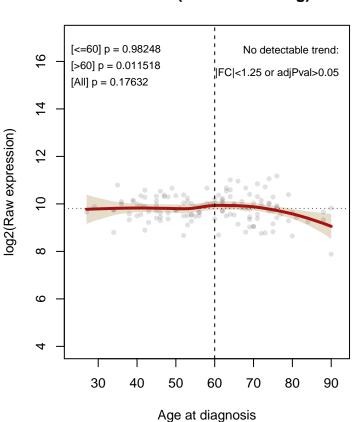




NFKBIE (non-ER binding)

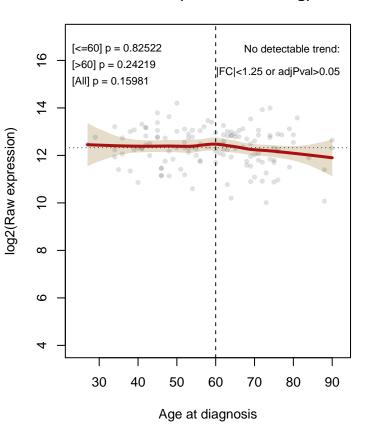
NOTCH1 (non-ER binding)

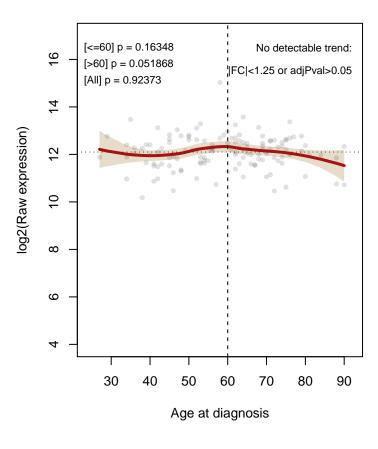




NOTCH2 (non-ER binding)

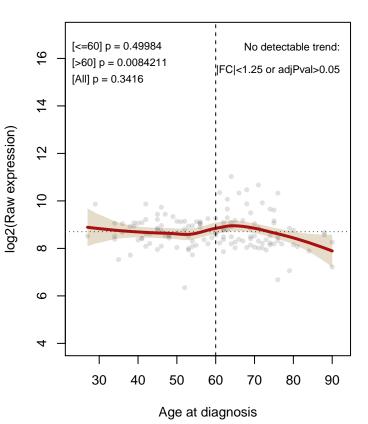
NOTCH3 (non-ER binding)

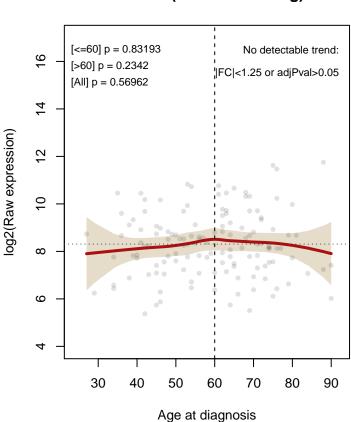




NOTCH4 (non-ER binding)

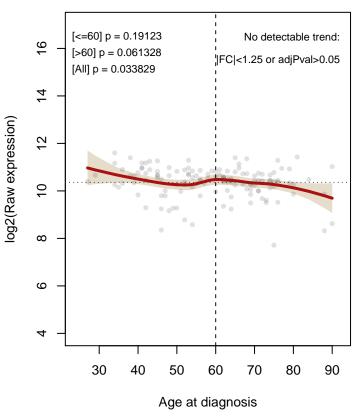
NR4A2 (non-ER binding)

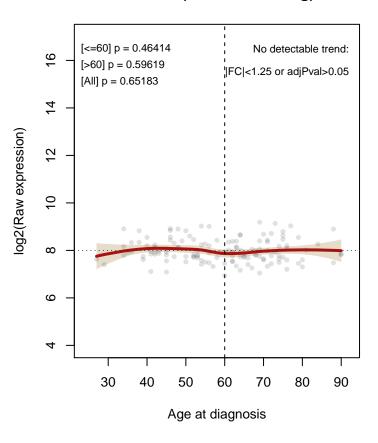






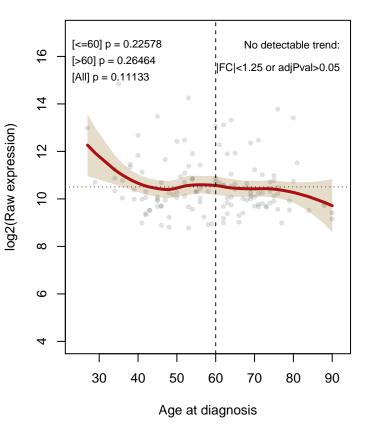
PCGF1 (non-ER binding)

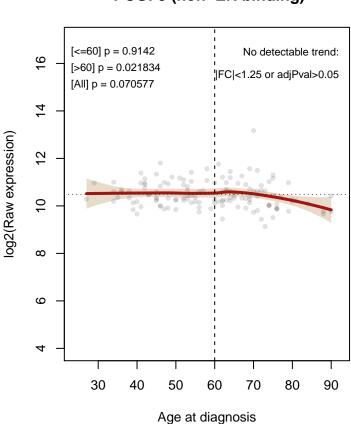




PCGF2 (non-ER binding)

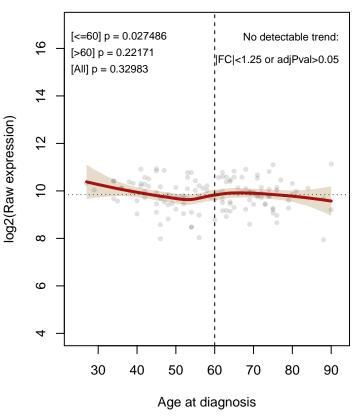
PCGF3 (non-ER binding)

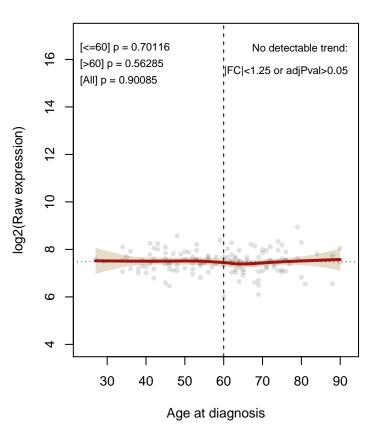






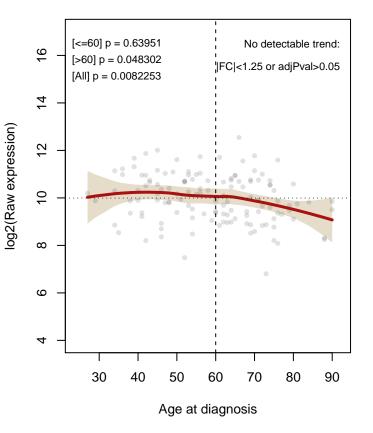
PCGF6 (non-ER binding)

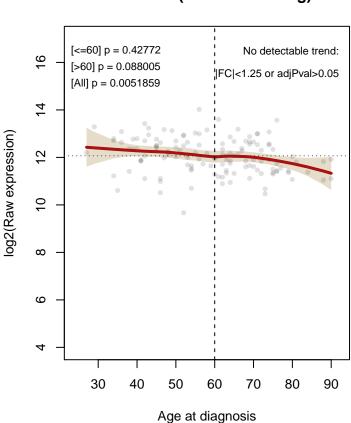




PDGFRA (non-ER binding)

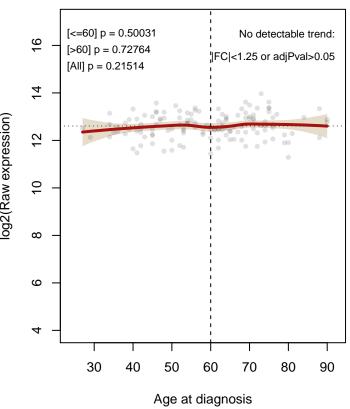
PDGFRB (non-ER binding)





PDPK1 (non-ER binding) [<=60] p = 0.67214No detectable trend: 16 16 [>60] p = 0.32589 |FC|<1.25 or adjPval>0.05 [All] p = 0.397594 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

PEBP1 (non-ER binding)



PELP1 (non-ER binding)

Age at diagnosis

60

70

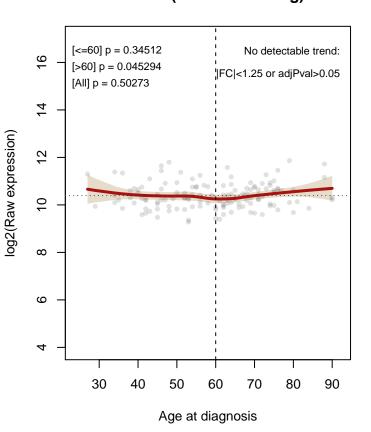
80

90

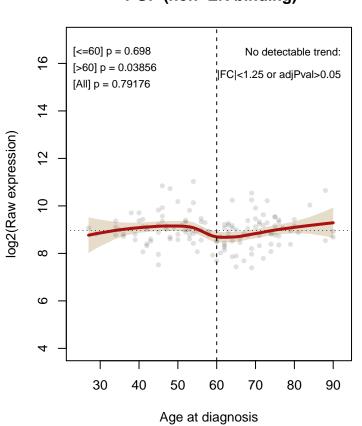
30

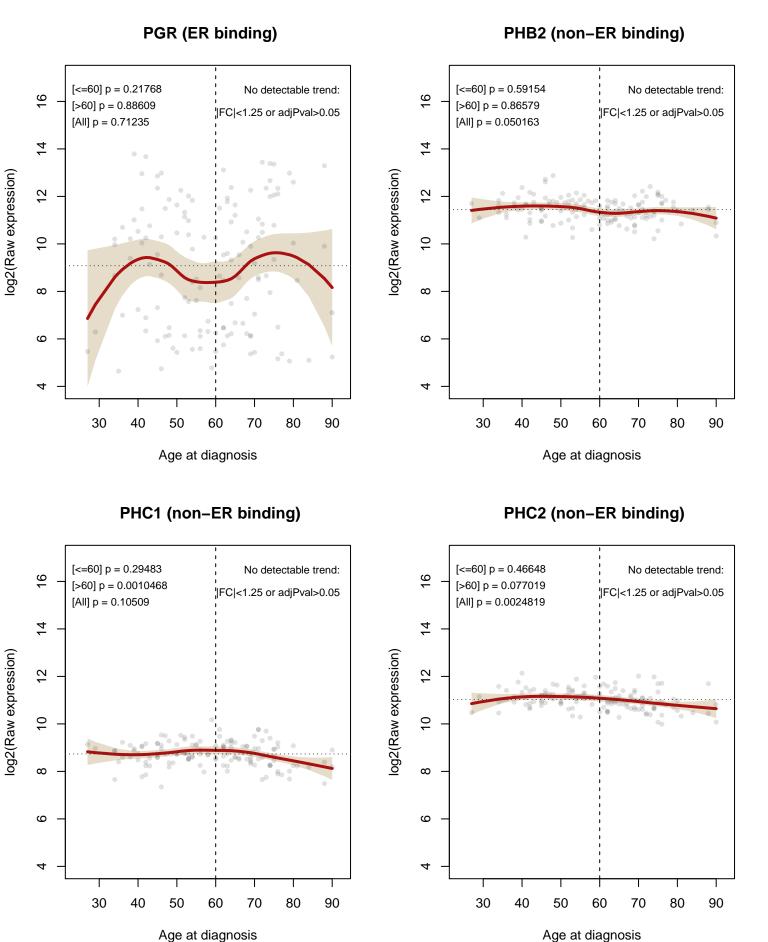
40

50



PGP (non-ER binding)





PHC3 (non-ER binding) [<=60] p = 0.48066No detectable trend: 16 [>60] p = 0.30203 |FC|<1.25 or adjPval>0.05 [AII] p = 0.243864 log2(Raw expression) 12 10

ω

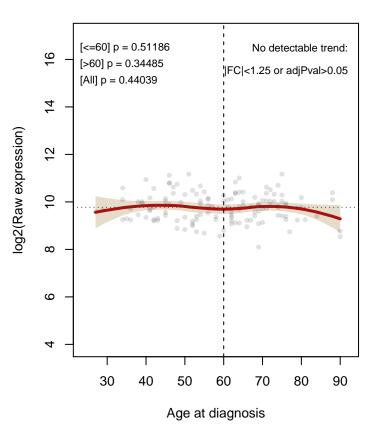
9

30

40

50

PHF1 (non-ER binding)



PHF19 (non-ER binding)

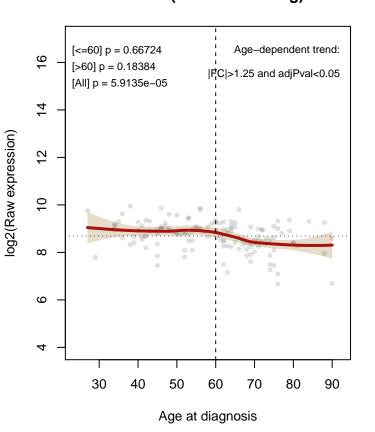
Age at diagnosis

60

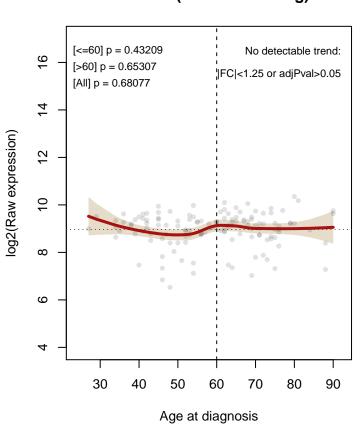
70

80

90

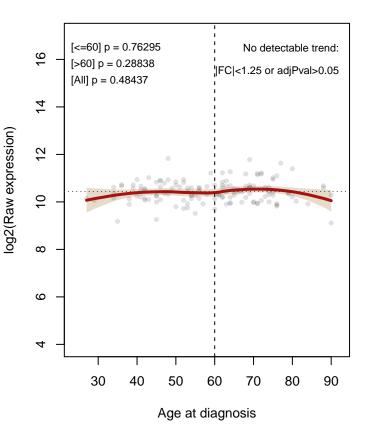


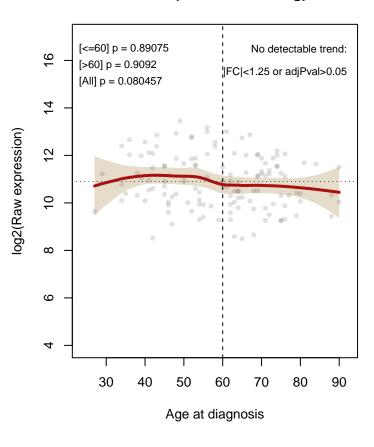
PIK3CA (non-ER binding)





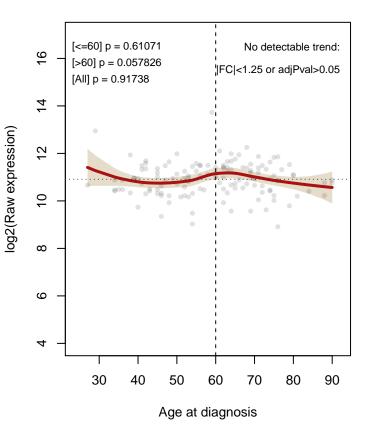
PLAU (non-ER binding)

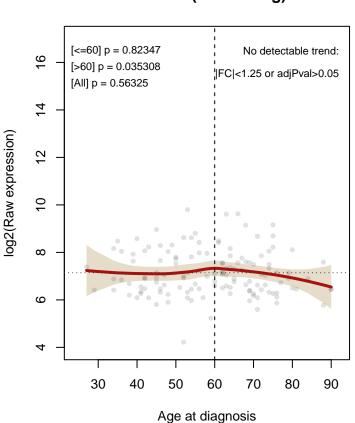




PODXL (non-ER binding)

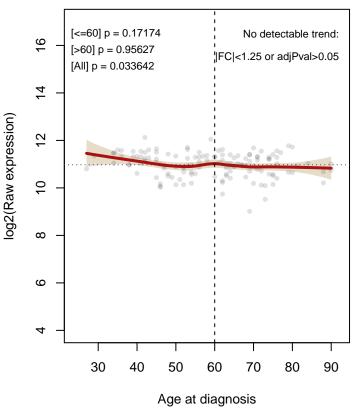
PPARG (ER binding)

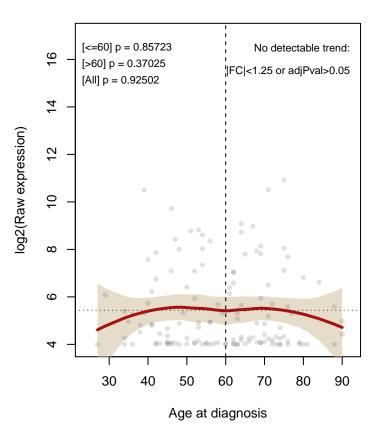






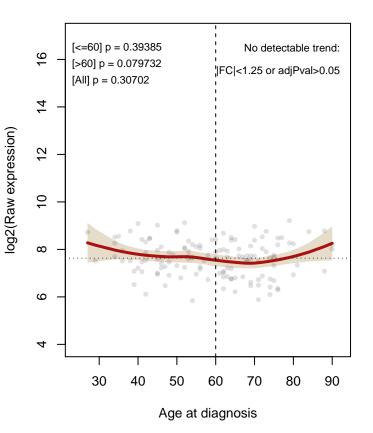
PYDC1 (non-ER binding)

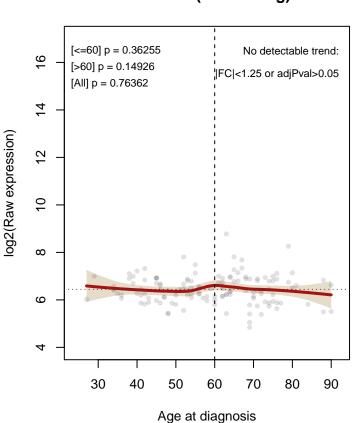




RAD51 (non-ER binding)

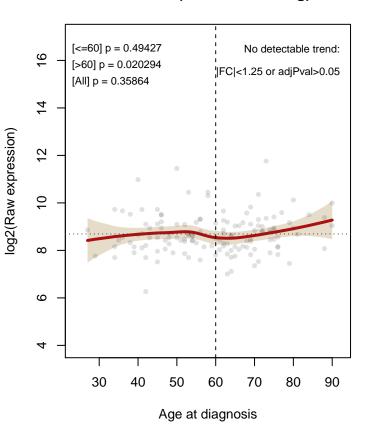
RAD51B (ER binding)

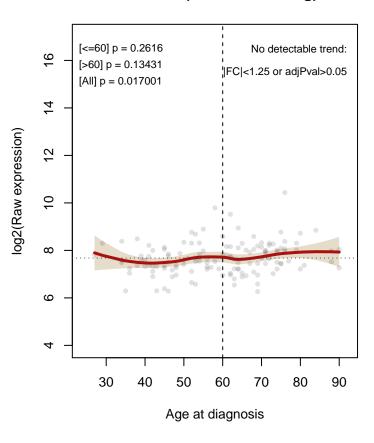




RAD51C (non-ER binding)

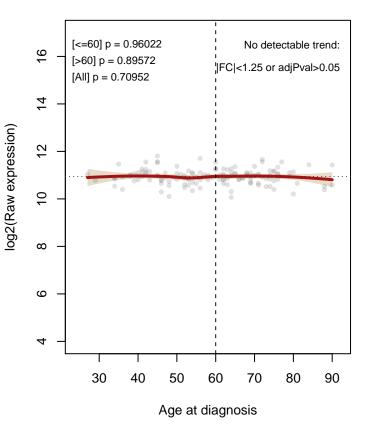
RAD51D (non-ER binding)

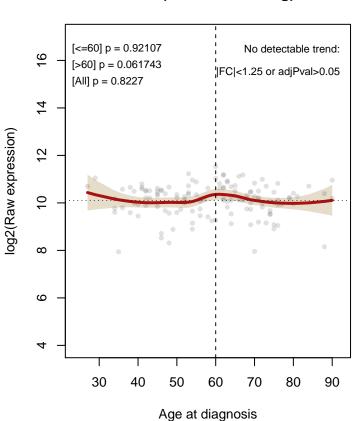


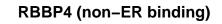


RAF1 (non-ER binding)

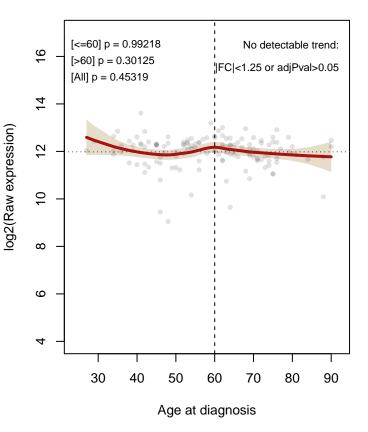
RB1 (non-ER binding)

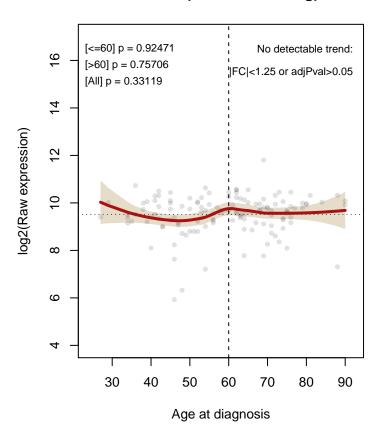






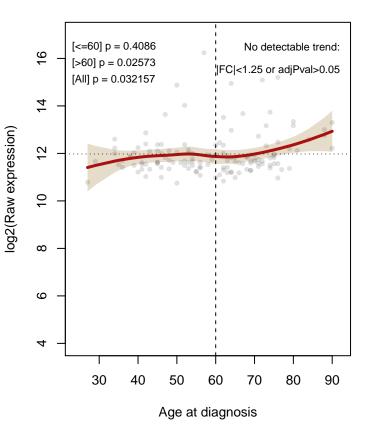
RBBP5 (non-ER binding)

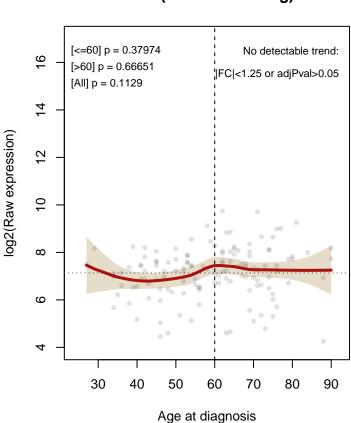


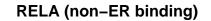


RBBP7 (non-ER binding)

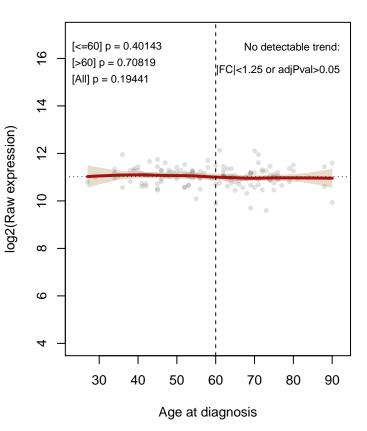
REL (non-ER binding)

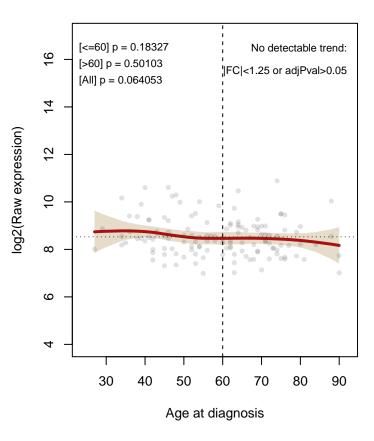






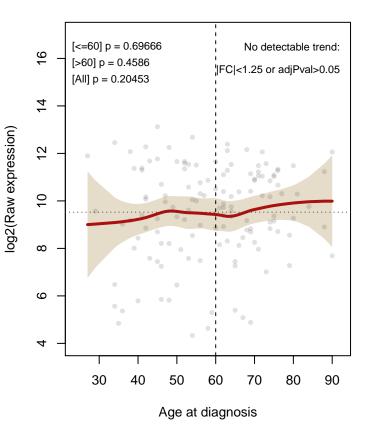
RELB (non-ER binding)

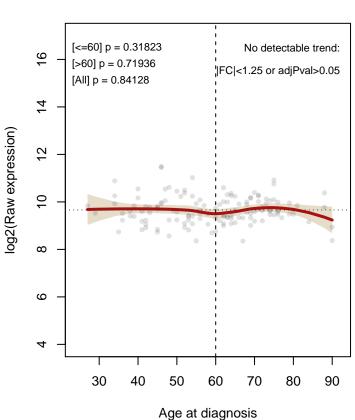


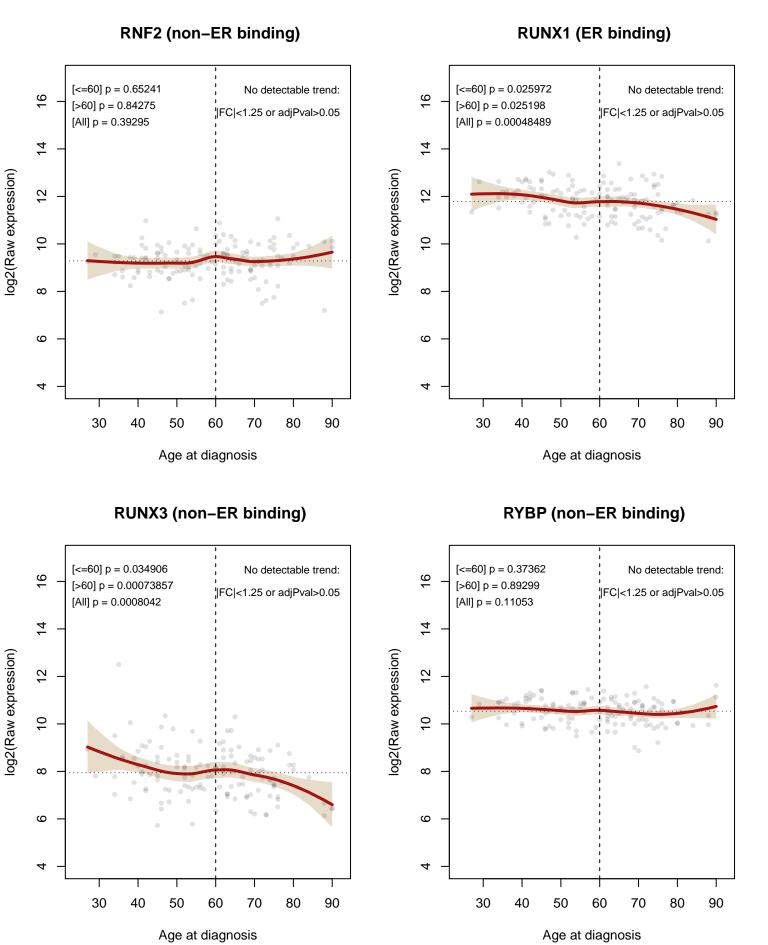


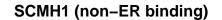
RET (ER binding)

RING1 (non-ER binding)

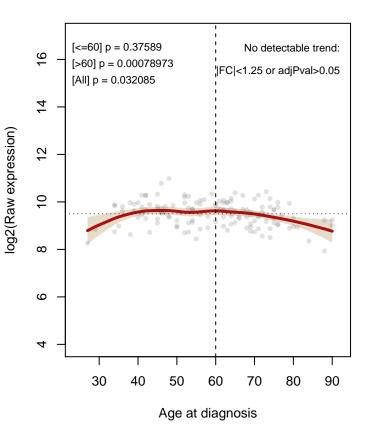


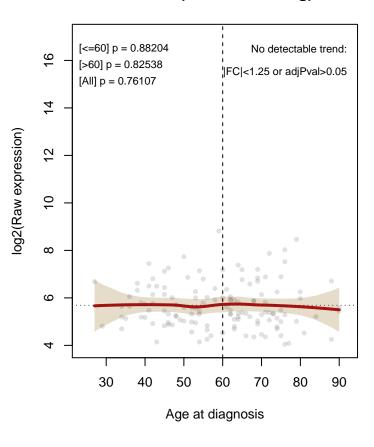






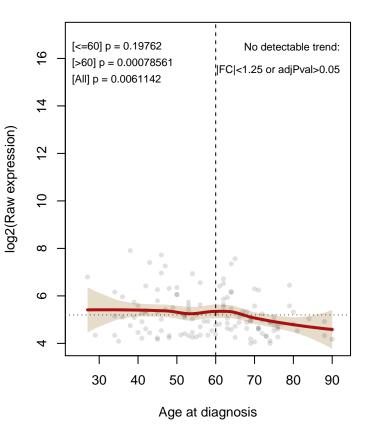
SCML2 (non-ER binding)

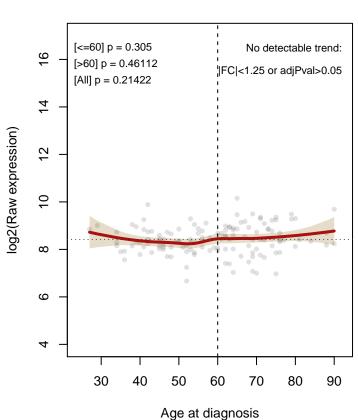




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.65234No detectable trend: [<=60] p = 0.61647No detectable trend: 16 16 [>60] p = 0.20935 [>60] p = 0.43359 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.74105[AII] p = 0.00766064 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 = 0.14801 No detectable trend: [<=60] p = 0.73817No detectable trend: 16 16 [>60] p = 0.29082[>60] p = 0.45849 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.38903[All] p = 0.717224 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

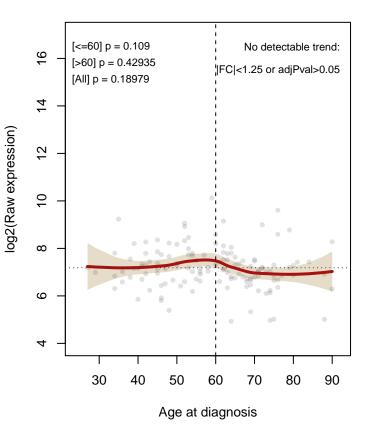
70

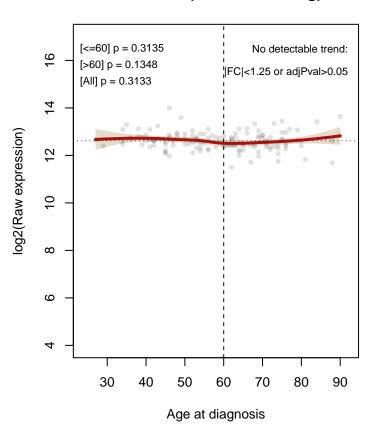
80

90



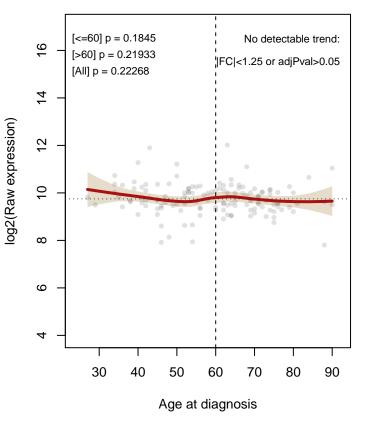
SLC25A3 (non-ER binding)

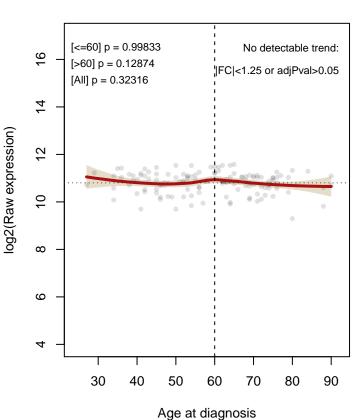




SMAD1 (non-ER binding)

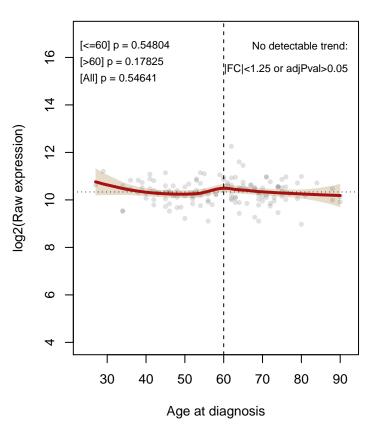
SMAD2 (non-ER binding)





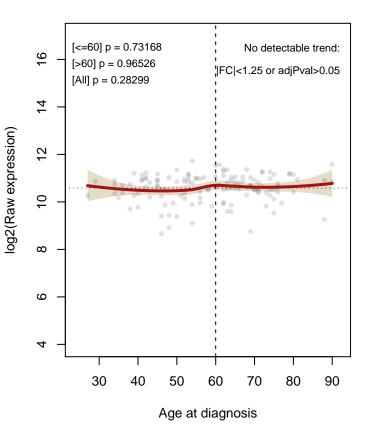
SMAD3 (ER binding) [<=60] p = 0.56946 [>60] p = 0.32551 [All] p = 0.94086 | FC|<1.25 or adjPval>0.05

SMAD4 (non-ER binding)

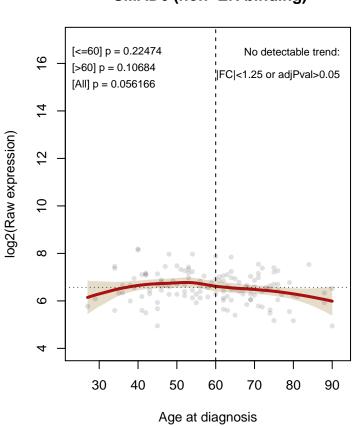


SMAD5 (non-ER binding)

Age at diagnosis

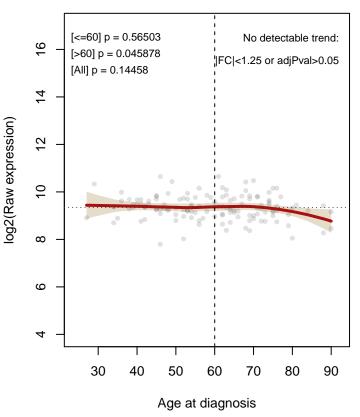


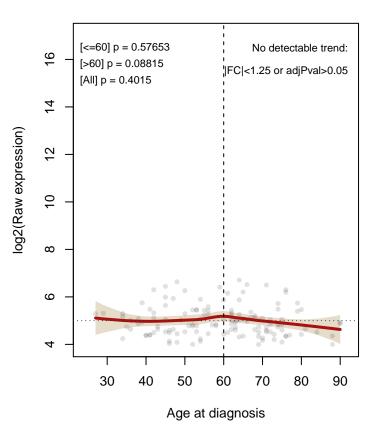
SMAD6 (non-ER binding)





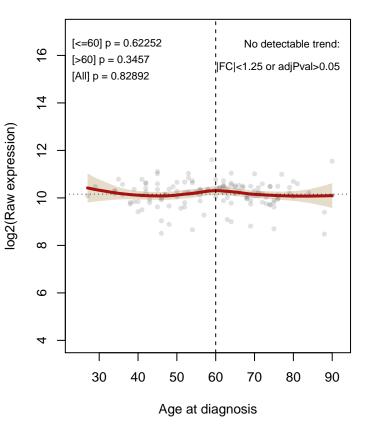
SMAD9 (non-ER binding)

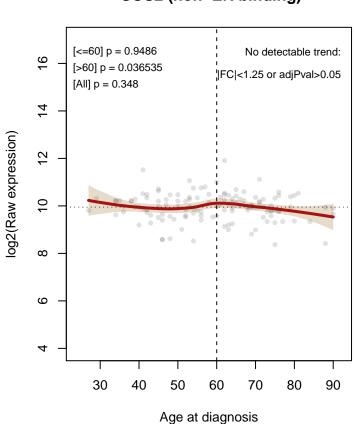


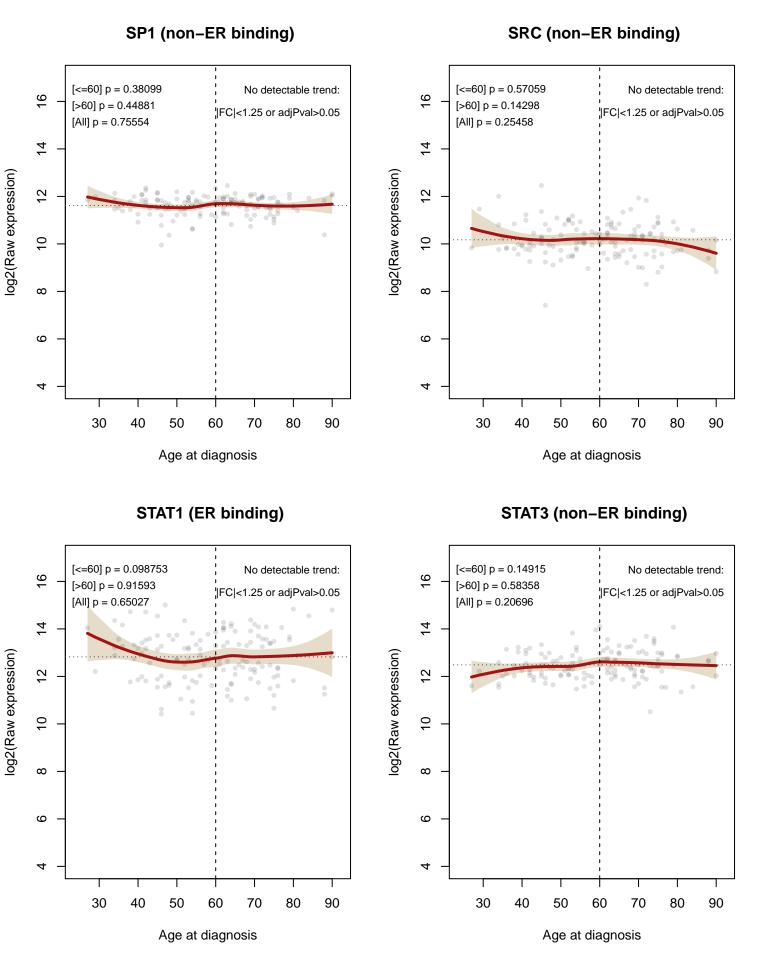


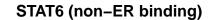
SOS1 (non-ER binding)

SOS2 (non-ER binding)

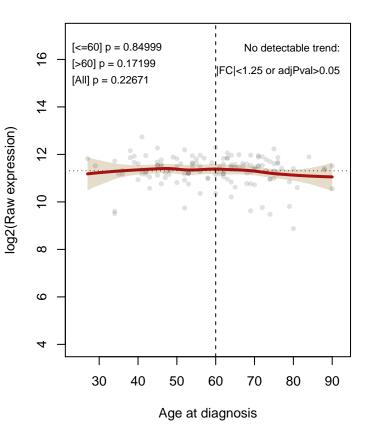


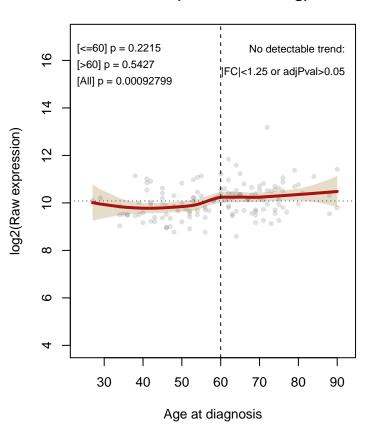






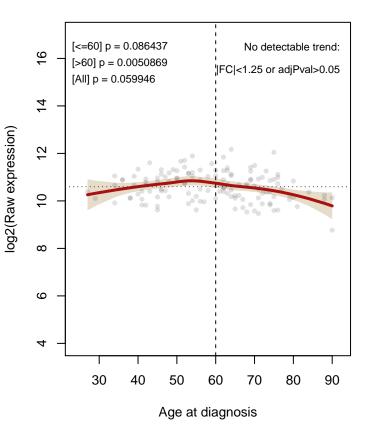
SUZ12 (non-ER binding)

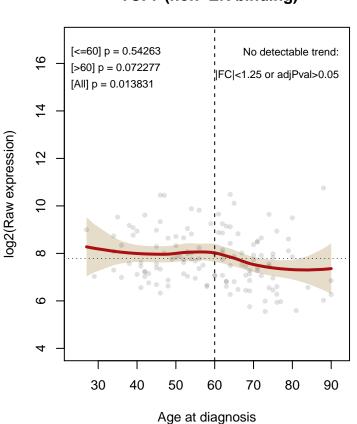




TCF3 (non-ER binding)

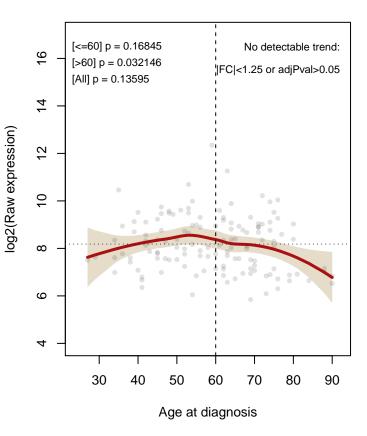
TCF7 (non-ER binding)

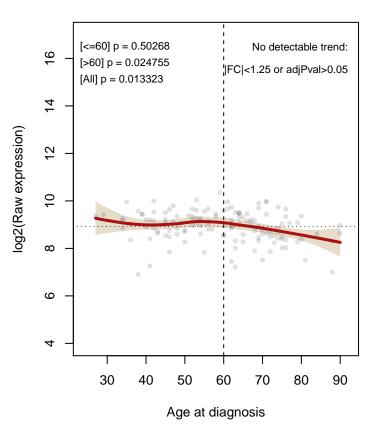






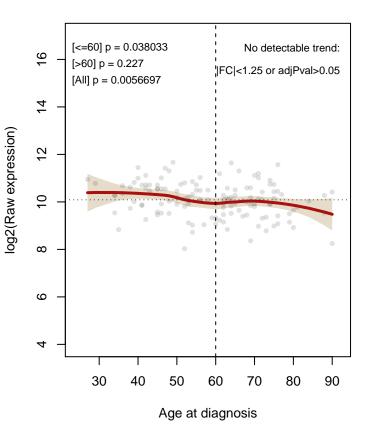
TCF7L2 (non-ER binding)

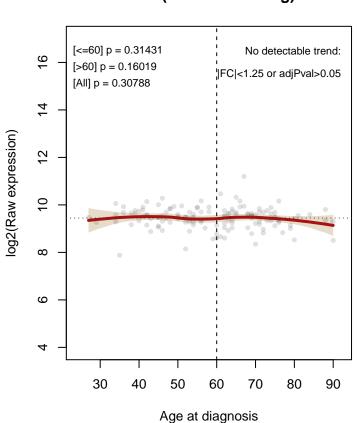


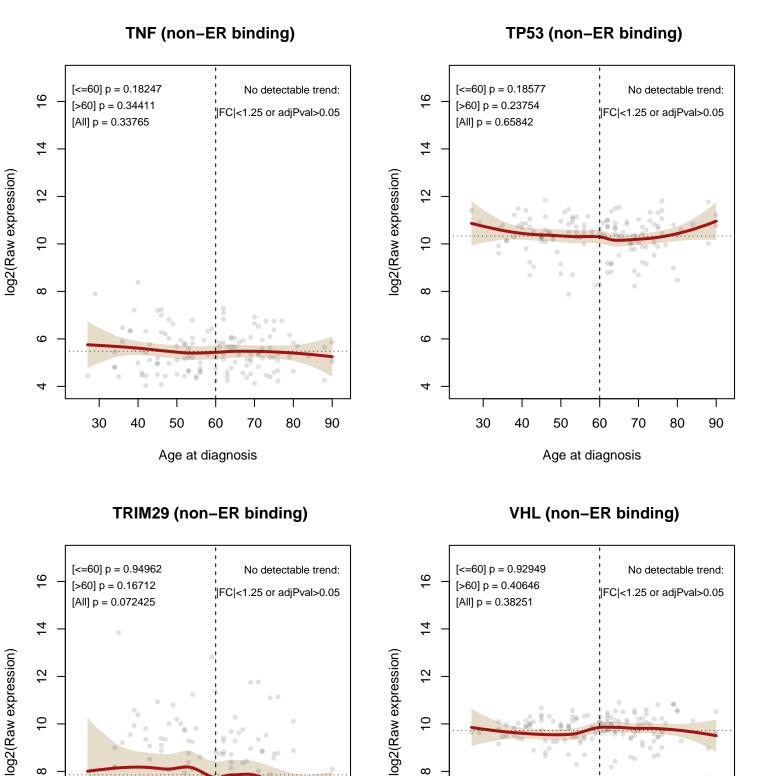


TGFB1 (non-ER binding)

TK2 (non-ER binding)





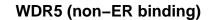


ω

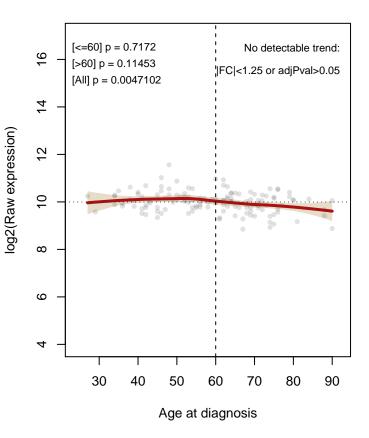
Age at diagnosis

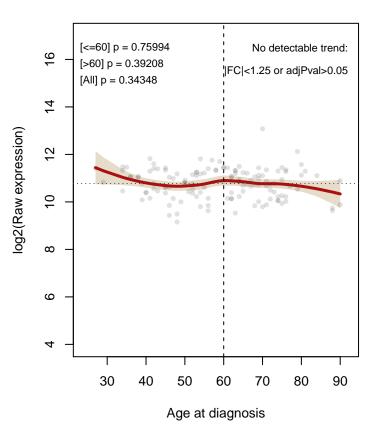
ω

Age at diagnosis



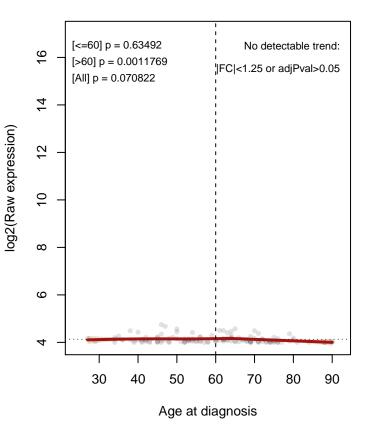
WHSC1 (non-ER binding)

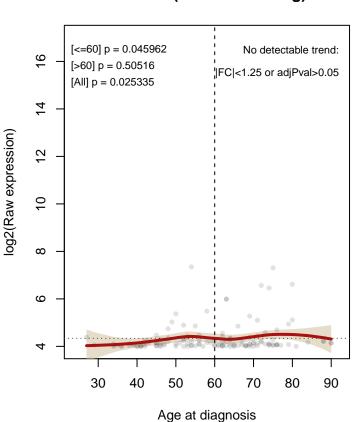




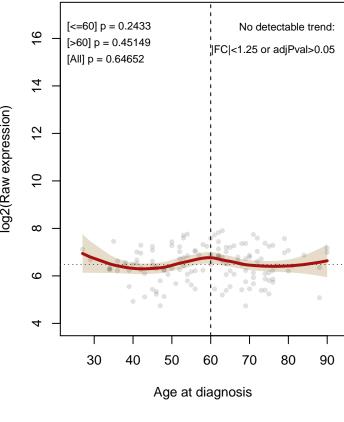
WNT1 (non-ER binding)

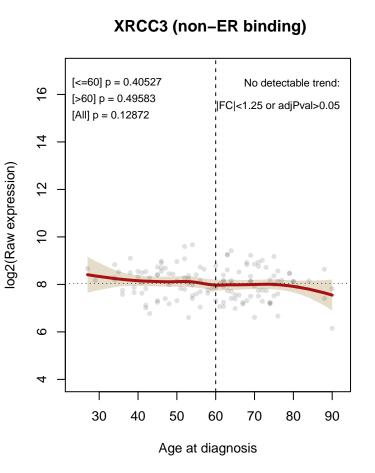
WNT3A (non-ER binding)

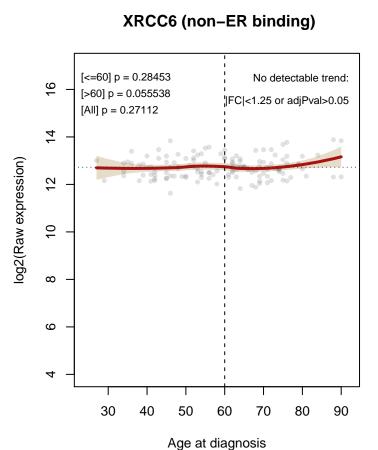




WNT7A (non-ER binding) XRCC2 (non-ER binding) [<=60] p = 0.30299No detectable trend: [<=60] p = 0.243316 16 [>60] p = 0.98215 [>60] p = 0.45149 |FC|<1.25 or adjPval>0.05 [All] p = 0.74272[All] p = 0.646524 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 Age at diagnosis



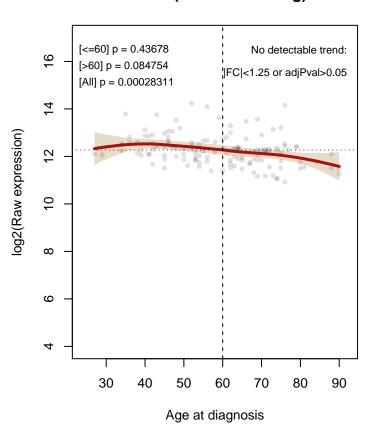




YAF2 (non-ER binding)

90 - [<=60] p = 0.1989 | No detectable trend: |>60] p = 0.045971 | |FC|<1.25 or adjPval>0.05

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

