

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.34695No detectable trend: [<=60] p = 0.1022No detectable trend: 16 16 [>60] p = 0.50563 [>60] p = 0.81981 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.14429[All] p = 0.330914 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 ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.92398No detectable trend: [<=60] p = 0.41789 No detectable trend: 16 16 [>60] p = 0.49806 [>60] p = 0.75205 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.12509[All] p = 0.159554 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ∞ 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

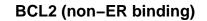
50

60

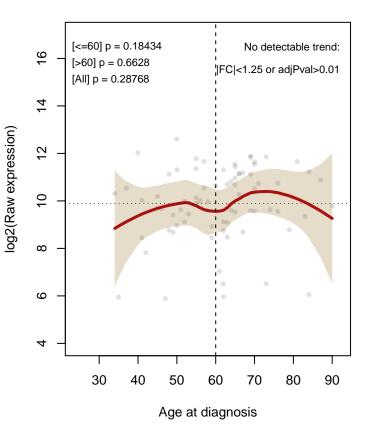
Age at diagnosis

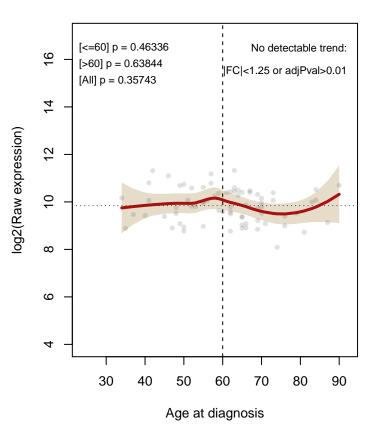
70

80



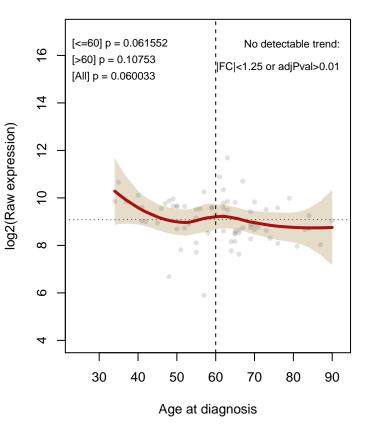
BCL3 (non-ER binding)

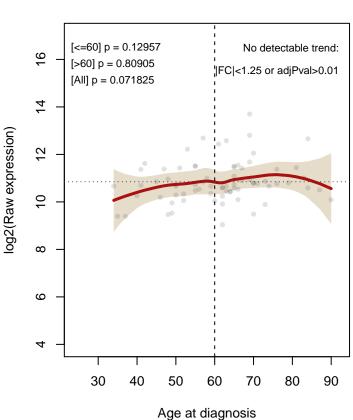




BIRC5 (non-ER binding)

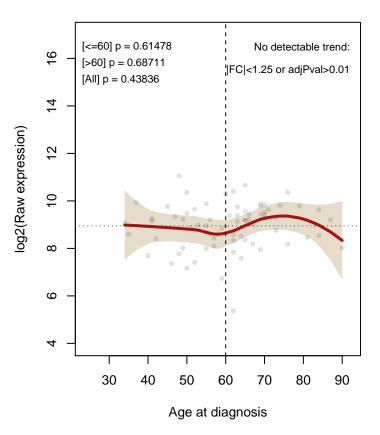
BMI1 (non-ER binding)





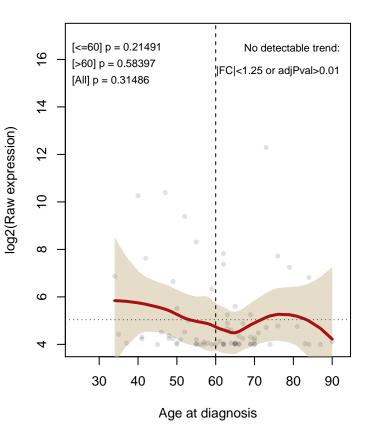
BMX (non-ER binding) | Color | Color

BRCA1 (non-ER binding)

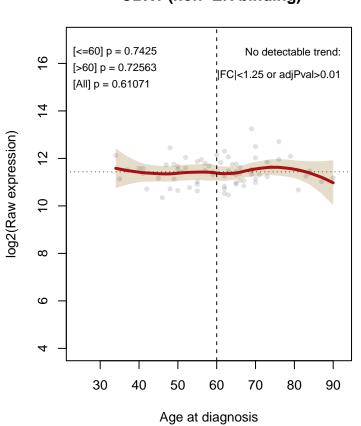


CA9 (non-ER binding)

Age at diagnosis



CBX1 (non-ER binding)



CBX2 (non-ER binding) CBX4 (non-ER binding) [<=60] p = 0.87949No detectable trend: [<=60] p = 0.20433No detectable trend: 16 16 [>60] p = 0.87835 [>60] p = 0.053504 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.033598[All] p = 0.712754 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.48512No detectable trend: [<=60] p = 0.14808No detectable trend: 16 16 [>60] p = 0.71807 [>60] p = 0.71994 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.94657[AII] p = 0.477064 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

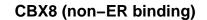
50

60

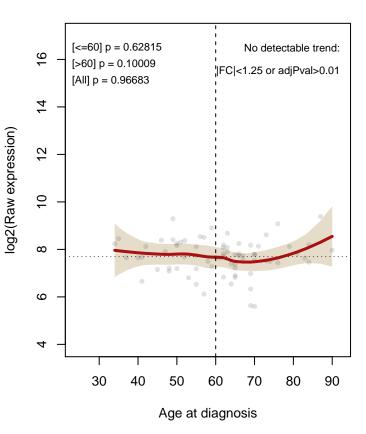
Age at diagnosis

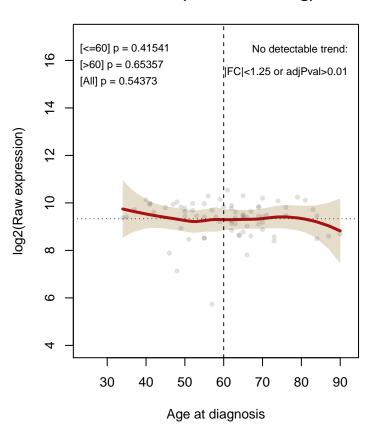
70

80



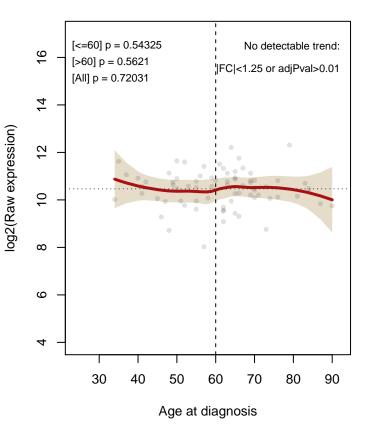
CCNA2 (non-ER binding)

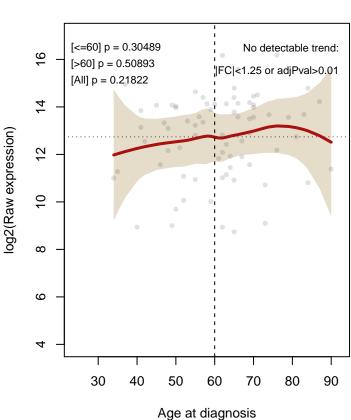


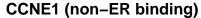


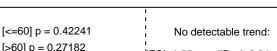
CCNB1 (non-ER binding)

CCND1 (ER binding)







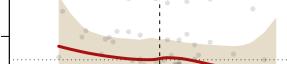




 ∞

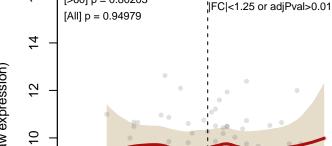
log2(Raw expression)





[>60] p = 0.27182 FC|<1.25 or adjPval>0.01



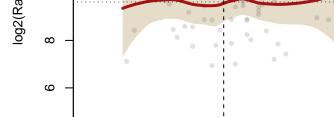


[<=60] p = 0.65922

[>60] p = 0.80203

CD163 (non-ER binding)

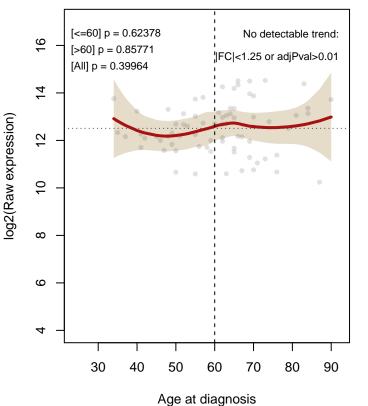
No detectable trend:



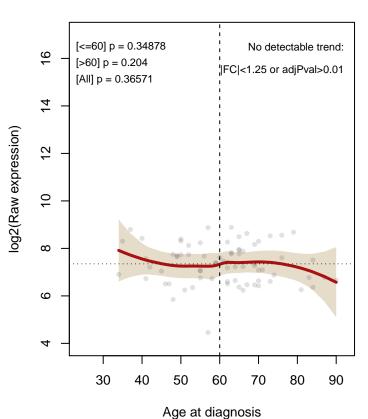
Age at diagnosis

CD44 (non-ER binding)

Age at diagnosis



CDC25C (non-ER binding)



CDH1 (non-ER binding) CDH3 (ER binding) [<=60] p = 0.3145No detectable trend: [<=60] p = 0.55423No detectable trend: 16 16 [>60] p = 0.76671 [>60] p = 0.30711 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.28788 [All] p = 0.428124 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 CDK1 (non-ER binding) CDK2 (non-ER binding) [<=60] p = 0.36316No detectable trend: [<=60] p = 0.083216 No detectable trend: 16 16 [>60] p = 0.64327 [>60] p = 0.66687FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.80424[All] p = 0.677544 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

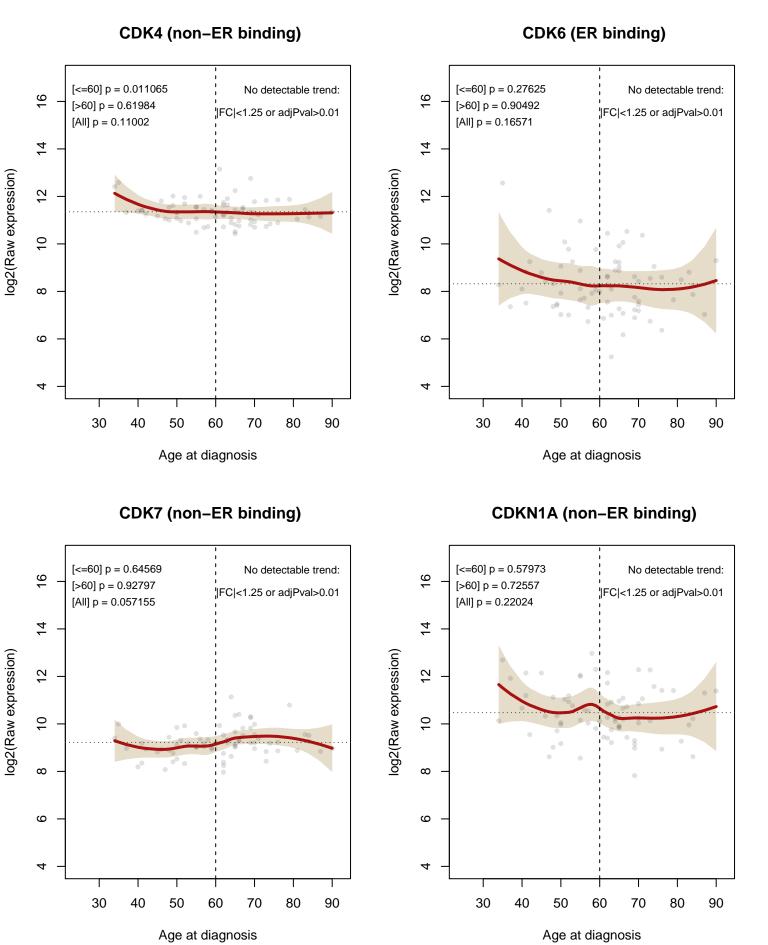
50

60

Age at diagnosis

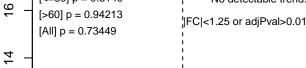
70

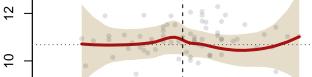
80



CDKN1B (non-ER binding)

[<=60] p = 0.3149No detectable trend: [>60] p = 0.94213





log2(Raw expression)



Age at diagnosis

60

70

80

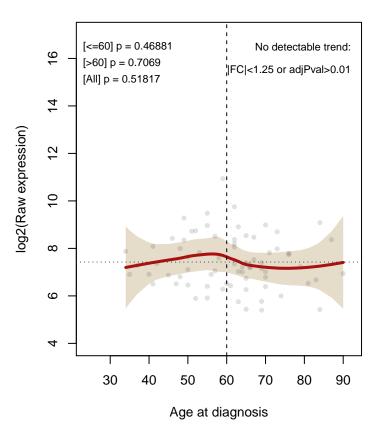
90

50

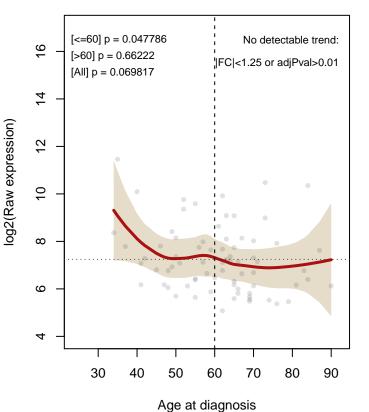
30

40

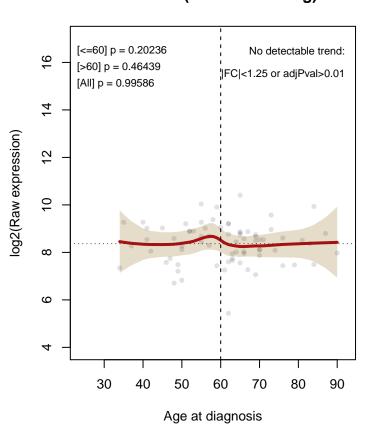
CDKN1C (non-ER binding)



CDKN2A (non-ER binding)

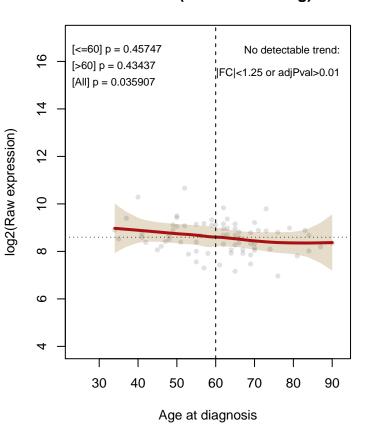


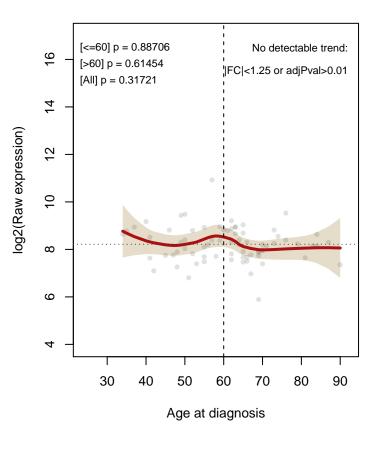
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

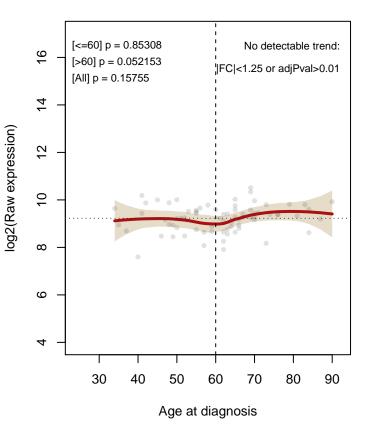
CDKN2D (non-ER binding)

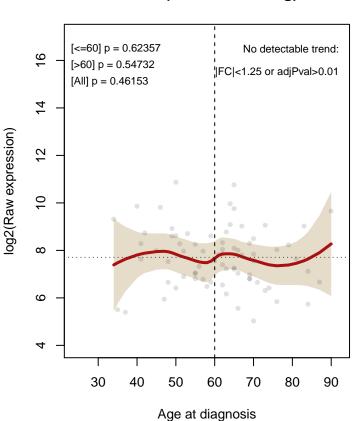




CHUK (non-ER binding)

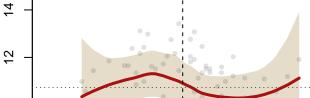
CIITA (non-ER binding)





CLDN3 (non-ER binding)

[<=60] p = 0.34222No detectable trend: 16 [>60] p = 0.83978 FC|<1.25 or adjPval>0.01 [All] p = 0.3776



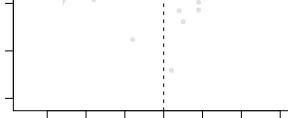
10 ω

log2(Raw expression)

9

30

40



60

Age at diagnosis

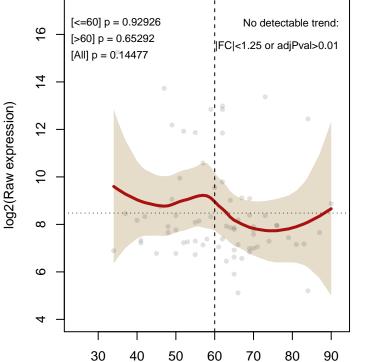
CRYAB (non-ER binding)

70

80

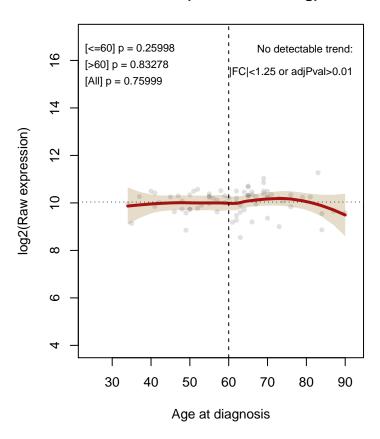
90

50

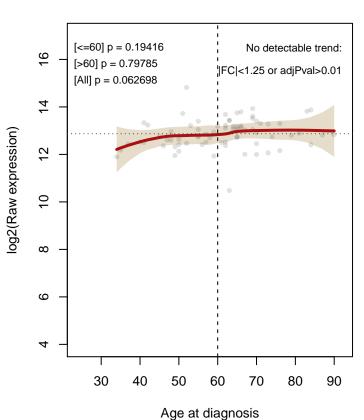


Age at diagnosis

CREB1 (non-ER binding)

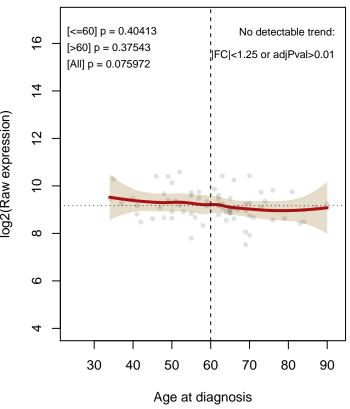


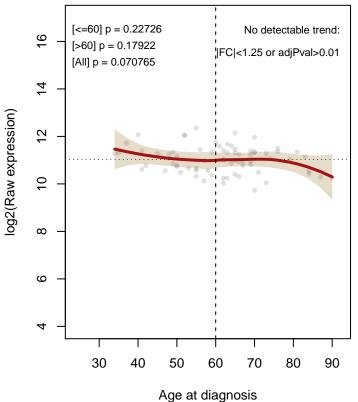
CTNNB1 (non-ER binding)



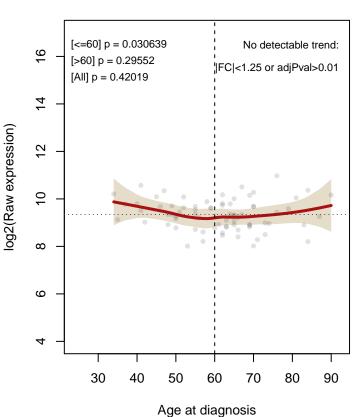
DLC1 (ER binding) [<=60] p = 0.0030559No detectable trend: 16 16 [>60] p = 0.44555 FC|<1.25 or adjPval>0.01 [All] p = 0.48814 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 Age at diagnosis **DNMT1** (non-ER binding)

DMAP1 (non-ER binding)

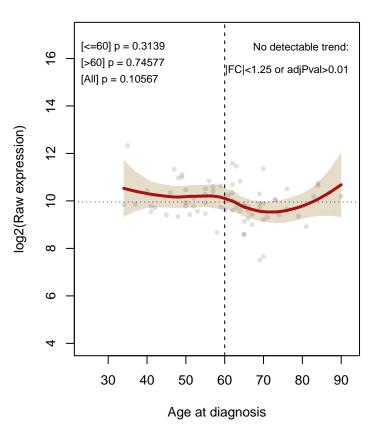




DNMT3A (non-ER binding)

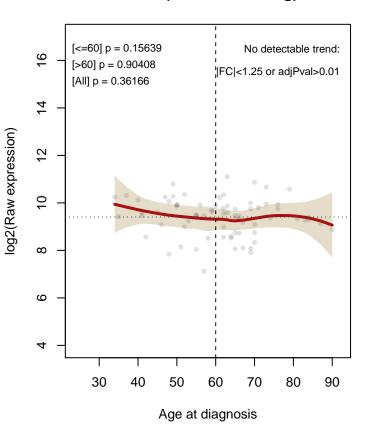


DVL1 (non-ER binding)

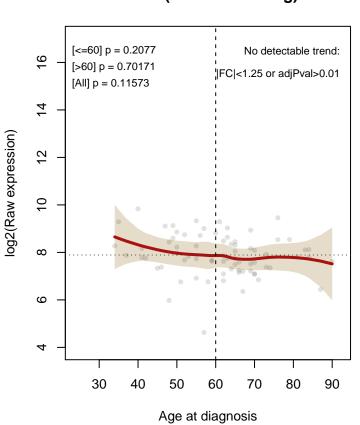


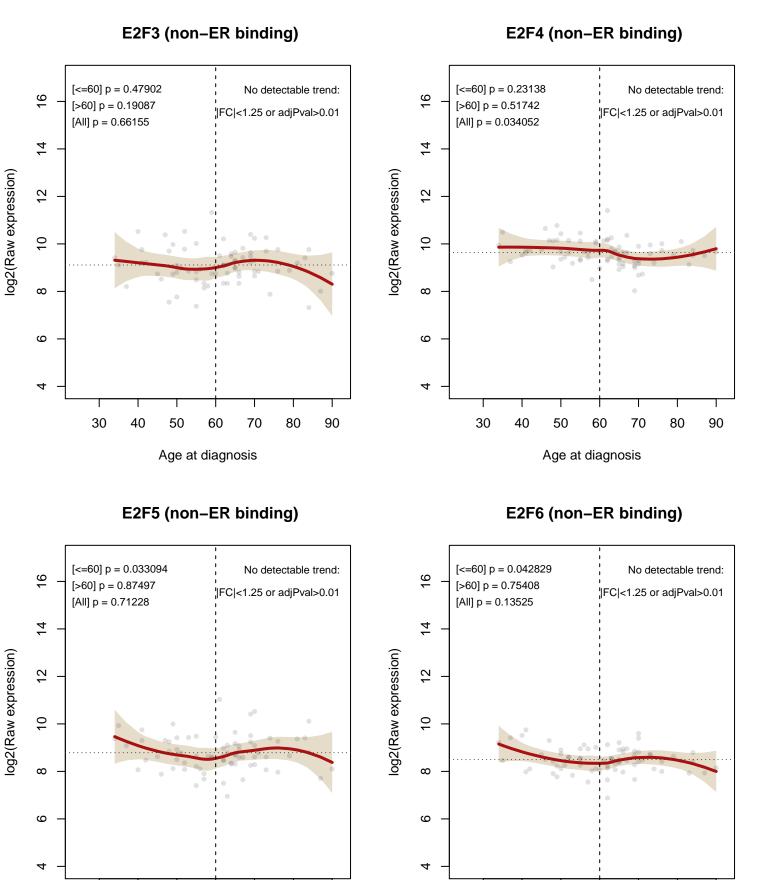
E2F1 (non-ER binding)

Age at diagnosis



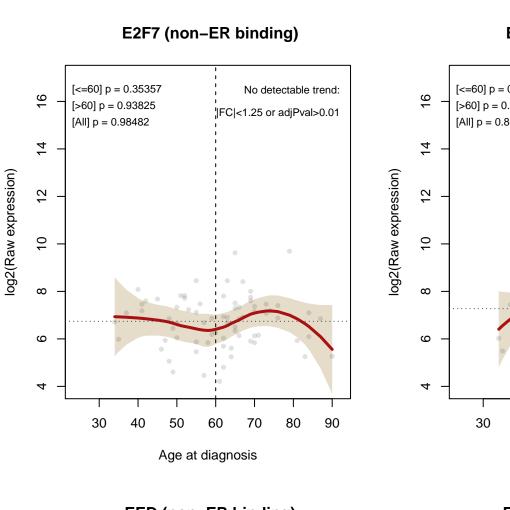
E2F2 (non-ER binding)

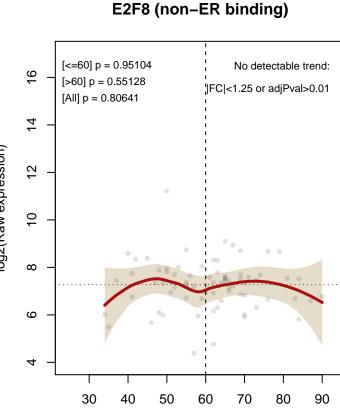




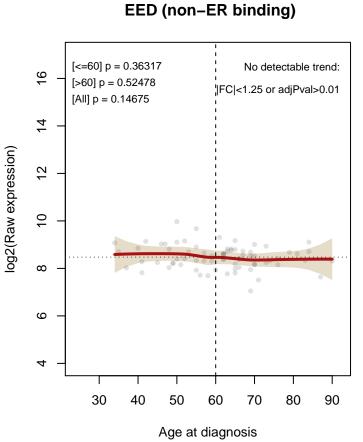
Age at diagnosis

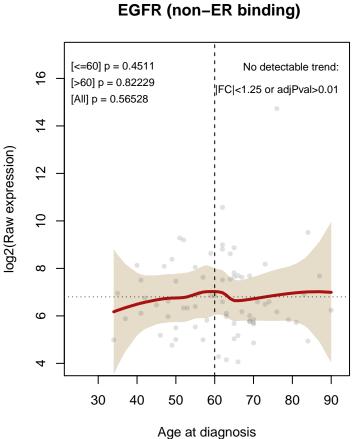
Age at diagnosis

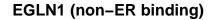




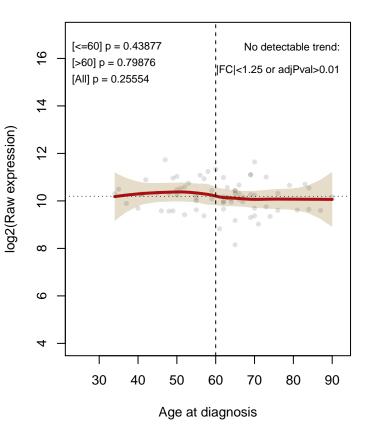
Age at diagnosis

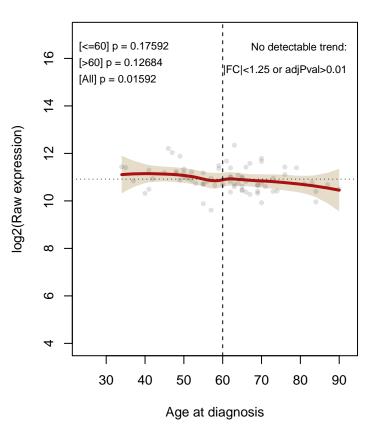






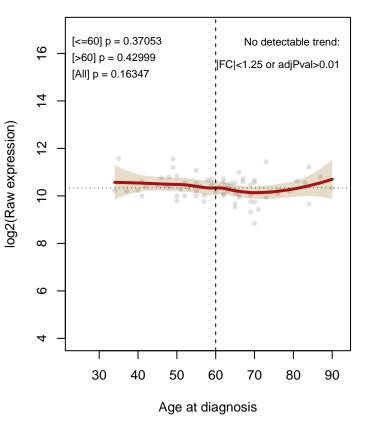
EHMT2 (non-ER binding)

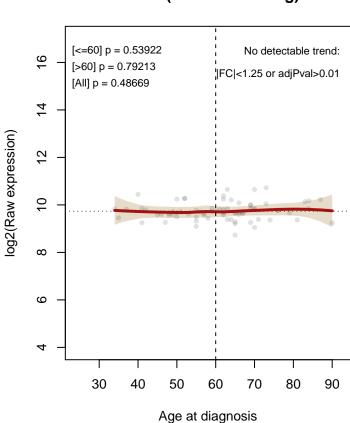


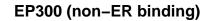


ELAC2 (non-ER binding)

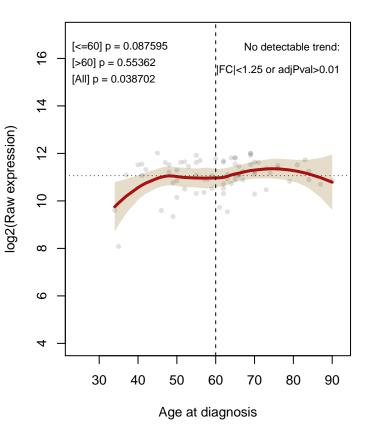
ELK1 (non-ER binding)

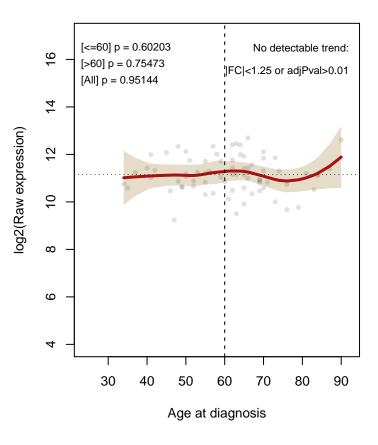






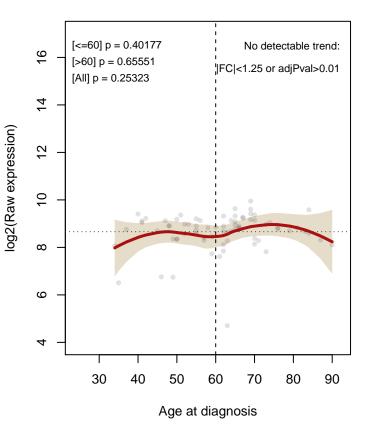
EPAS1 (non-ER binding)

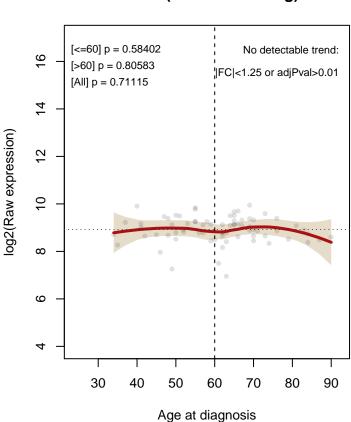




EPC1 (non-ER binding)

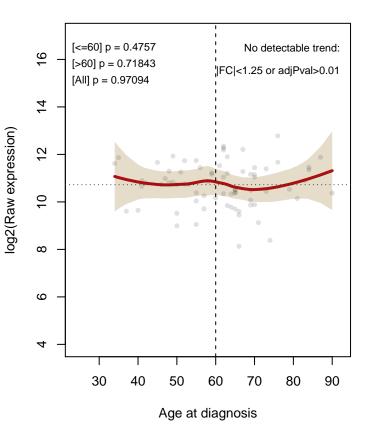
EPC2 (non-ER binding)

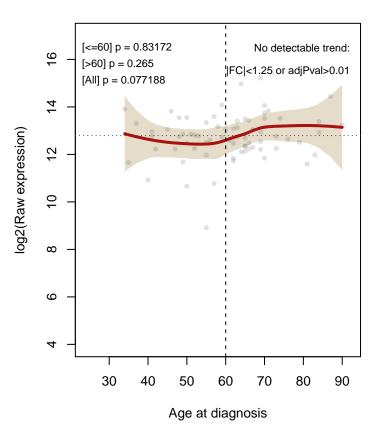




EPHB4 (non-ER binding)

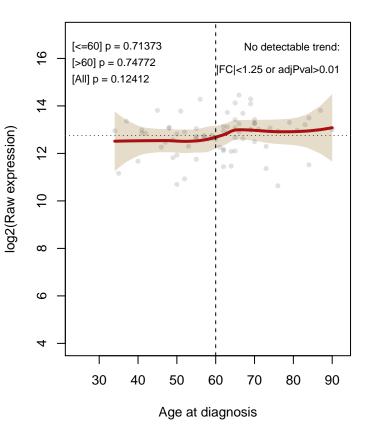
ERBB2 (non-ER binding)

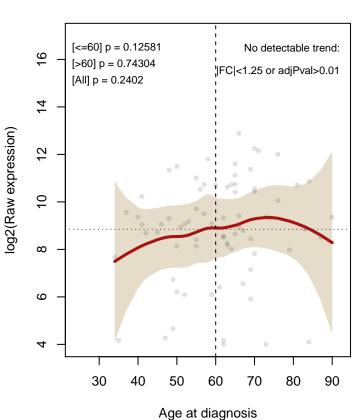


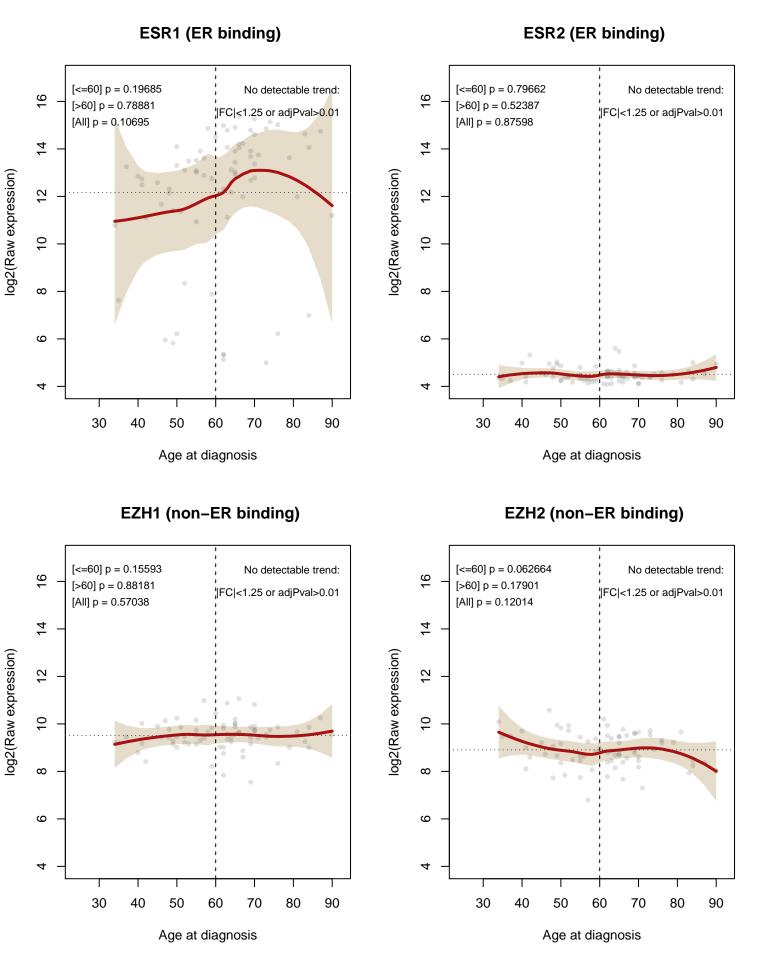


ERBB3 (non-ER binding)

ERBB4 (ER binding)

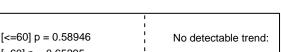


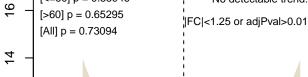


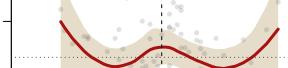








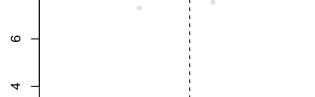




10 ω

log2(Raw expression)

12



50

30

40

Age at diagnosis

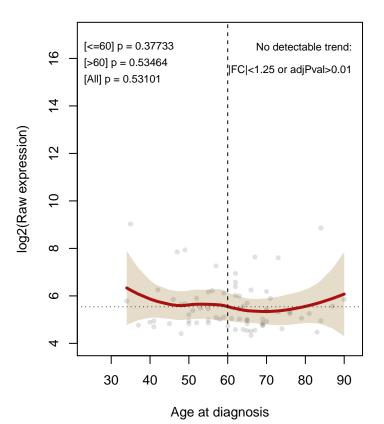
60

70

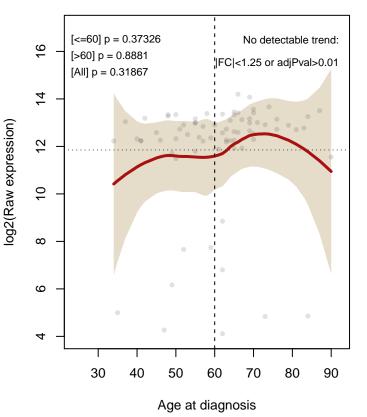
80

90

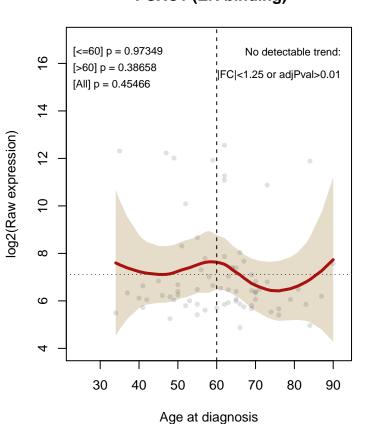
FOSL1 (non-ER binding)

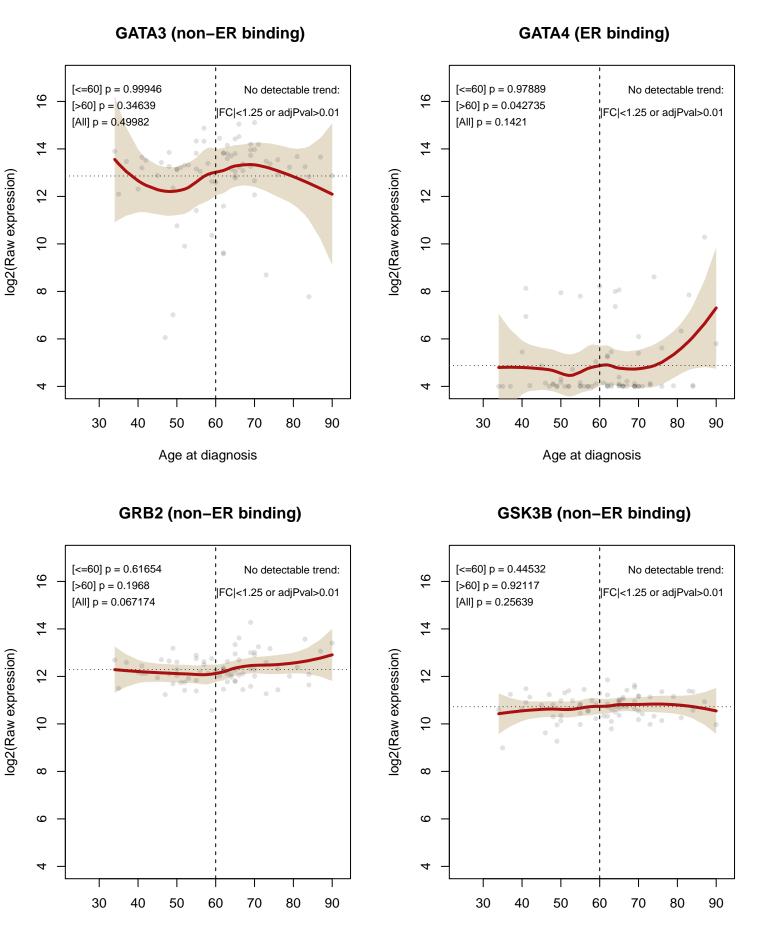


FOXA1 (ER binding)



FOXC1 (ER binding)





Age at diagnosis

Age at diagnosis

H3F3A (non-ER binding) **HDAC1 (ER binding)** [<=60] p = 0.30564No detectable trend: [<=60] p = 0.33281No detectable trend: 16 16 [>60] p = 0.36842 [>60] p = 0.12877 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.09211[All] p = 0.708454 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **HDAC2** (non-ER binding) **HES1 (non-ER binding)** [<=60] p = 0.015061No detectable trend: [<=60] p = 0.59343No detectable trend: 16 16 [>60] p = 0.94523 [>60] p = 0.48053 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.73913[All] p = 0.73344 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

60

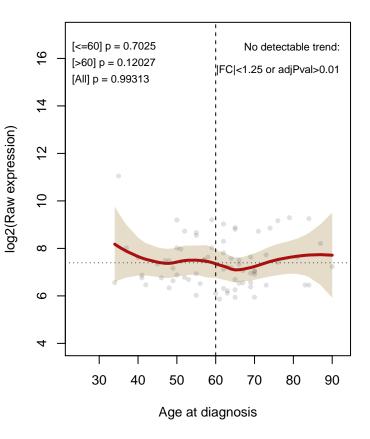
Age at diagnosis

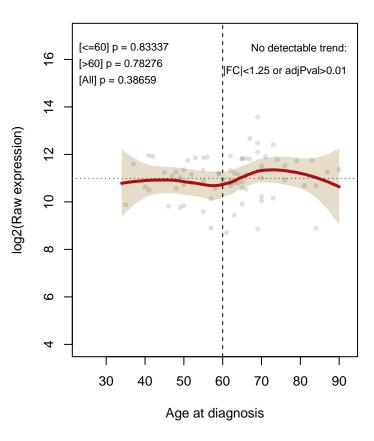
70

80



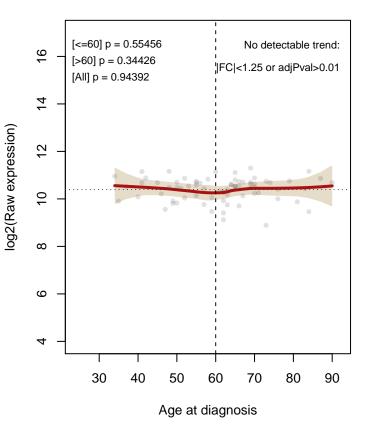
HIF1A (non-ER binding)

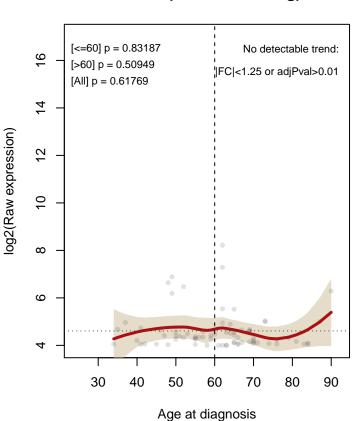




HIF1AN (non-ER binding)

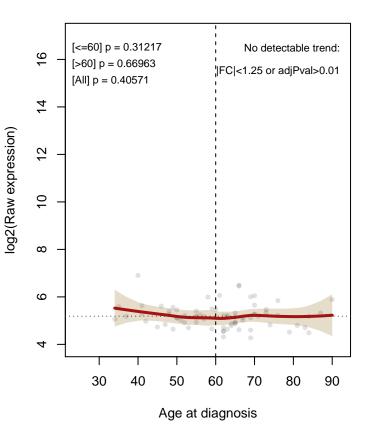
HIF3A (non-ER binding)

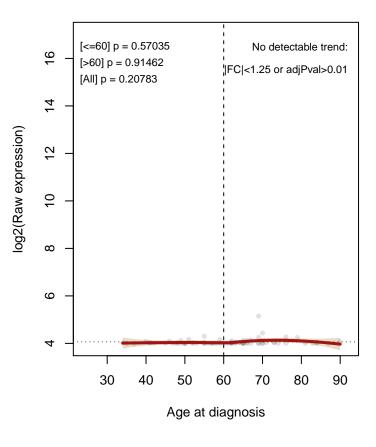




HNF1A (non-ER binding)

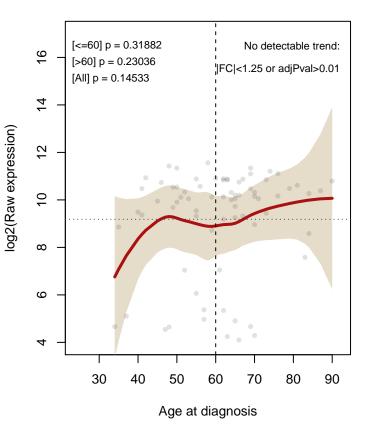
HNF1B (non-ER binding)

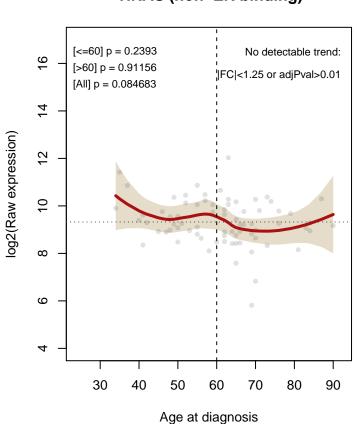


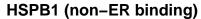


HOXC10 (non-ER binding)

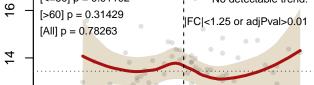
HRAS (non-ER binding)







[<=60] p = 0.91192No detectable trend:





log2(Raw expression)

log2(Raw expression)

ω

30

40



50

Age at diagnosis

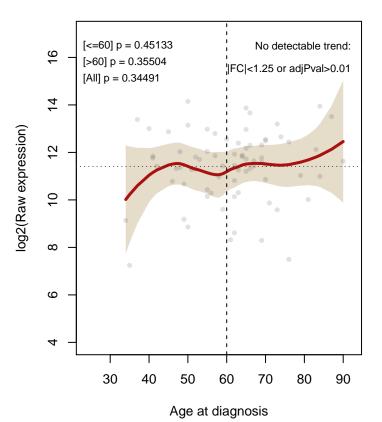
60

70

80

90

IGF1R (ER binding)

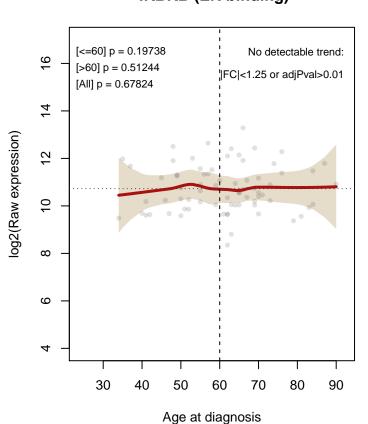


IGFBP2 (non-ER binding)

[<=60] p = 0.073253No detectable trend: 16 [>60] p = 0.49182 FC|<1.25 or adjPval>0.01 [All] p = 0.579914 12 10 ω 9 30 40 50 60 70 80 90

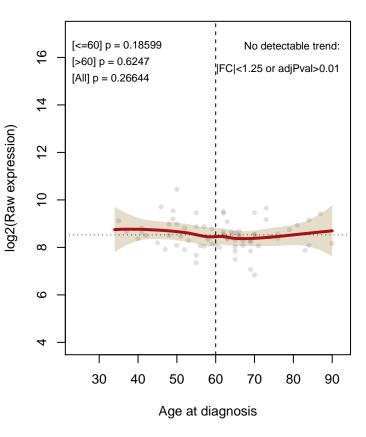
Age at diagnosis

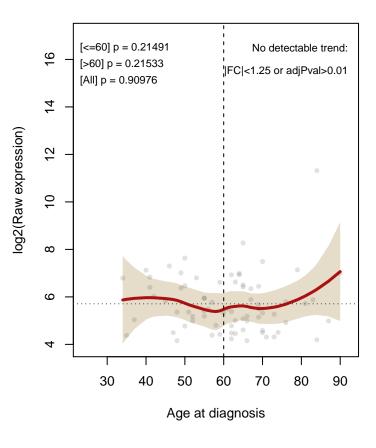
IKBKB (ER binding)





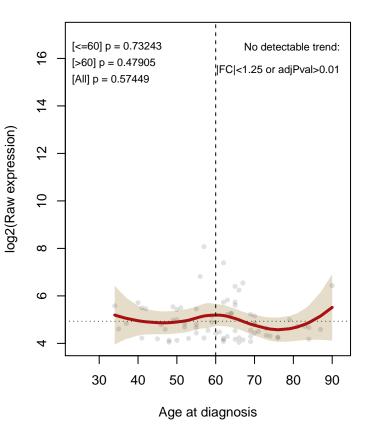
IL2RA (non-ER binding)

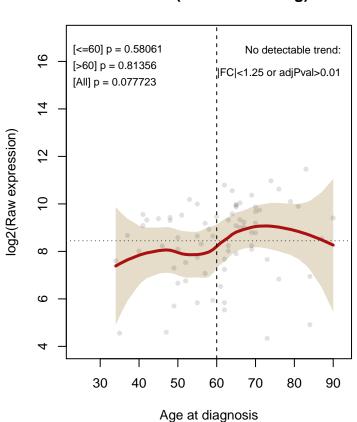


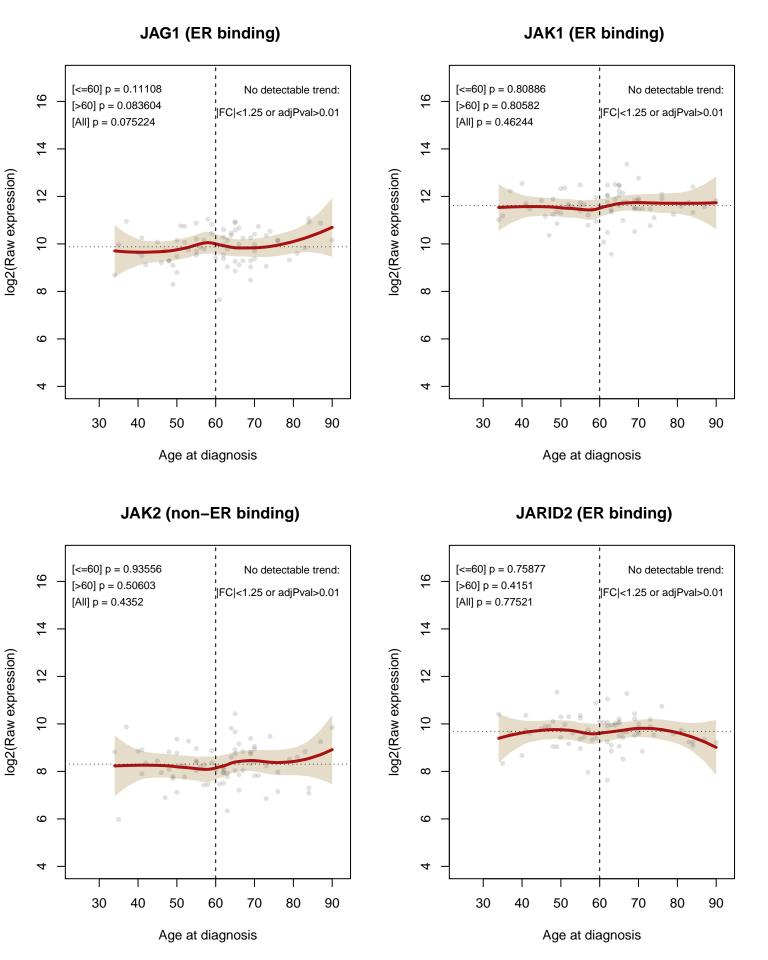


IL6 (non-ER binding)

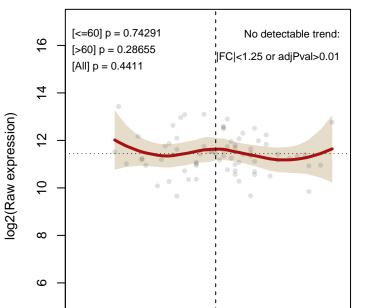
INPP4B (non-ER binding)



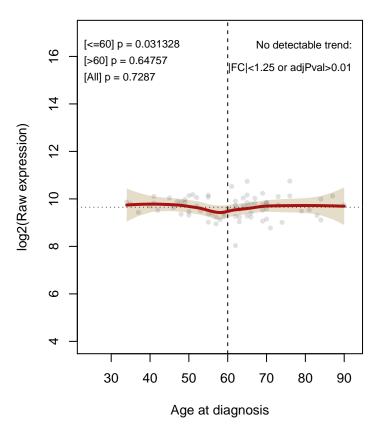








KDM2B (non-ER binding)



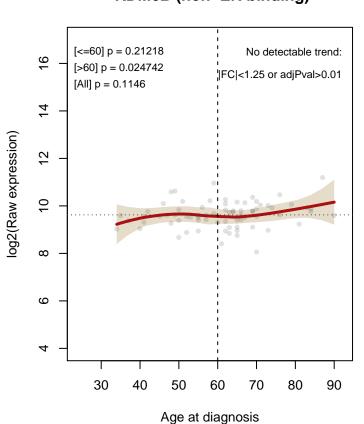
KDM6A (non-ER binding)

Age at diagnosis

[<=60] p = 0.74154No detectable trend: [>60] p = 0.29285 FC|<1.25 or adjPval>0.01 [All] p = 0.11487log2(Raw expression) ω

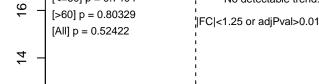
Age at diagnosis

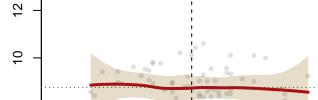
KDM6B (non-ER binding)





[<=60] p = 0.7404No detectable trend: [>60] p = 0.80329





log2(Raw expression)



50

30

40

KMT2C (non-ER binding)

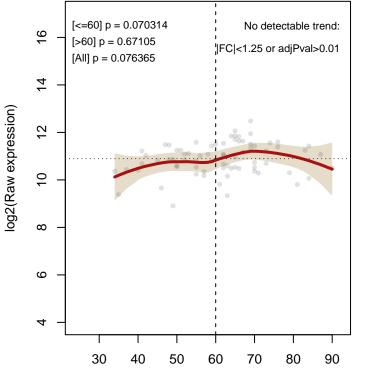
Age at diagnosis

60

70

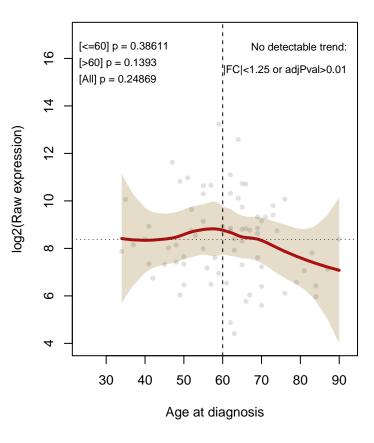
80

90

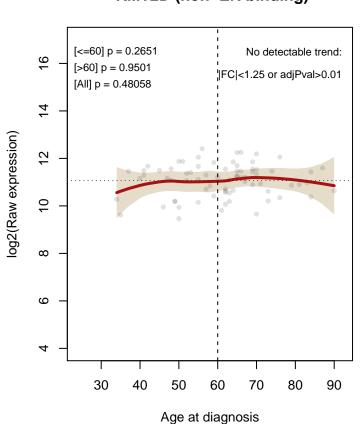


Age at diagnosis

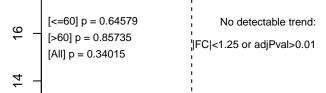
KIT (non-ER binding)

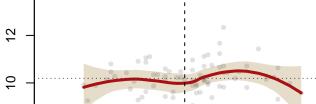


KMT2D (non-ER binding)



KRAS (non-ER binding)





log2(Raw expression)



Age at diagnosis

50

30

40

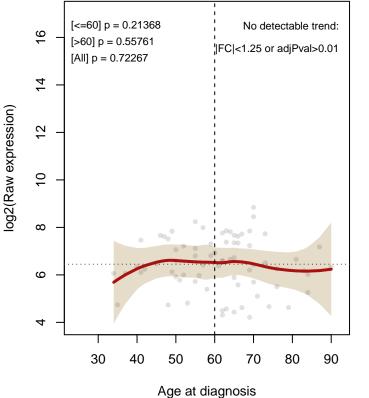
L3MBTL1 (non-ER binding)

60

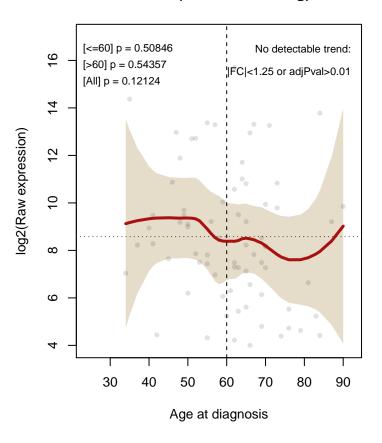
70

80

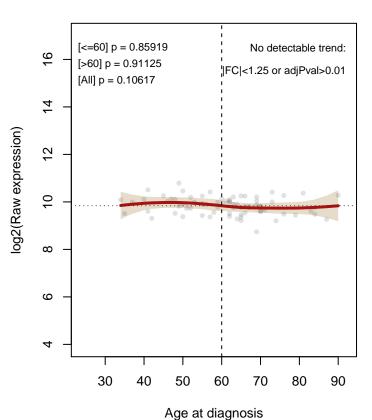
90



KRT5 (non-ER binding)

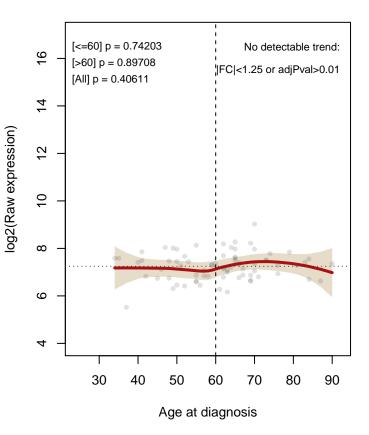


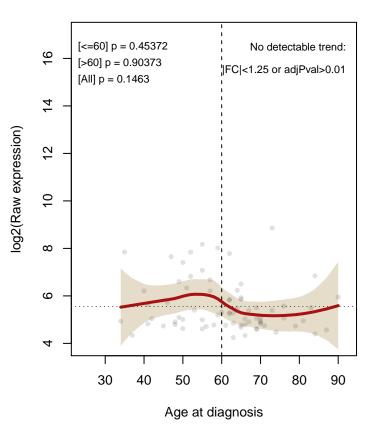
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

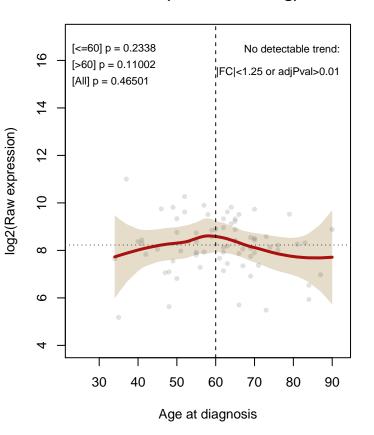
L3MBTL4 (non-ER binding)

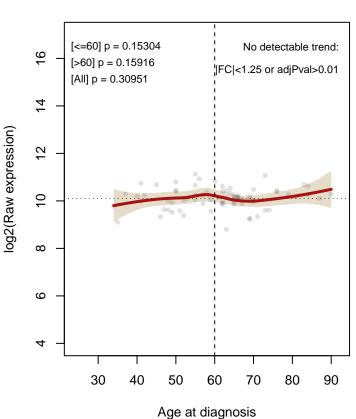




LEF1 (non-ER binding)

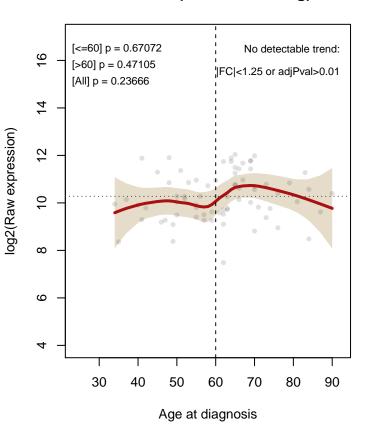
MAP2K1 (non-ER binding)

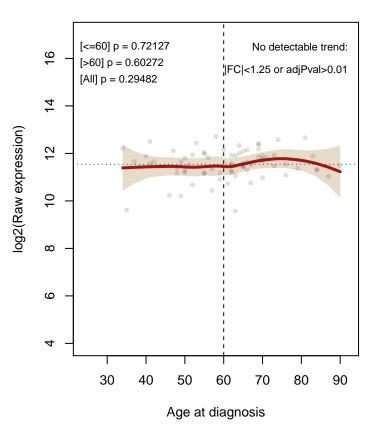




MAP3K1 (non-ER binding)

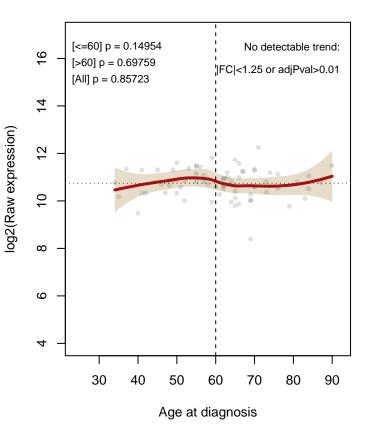
MAPK1 (non-ER binding)

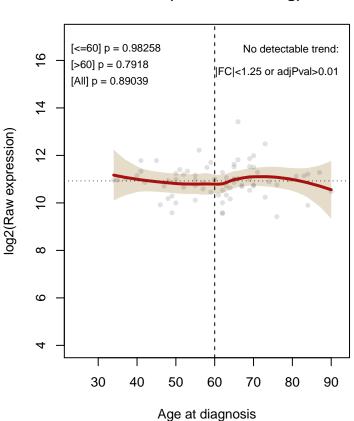


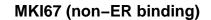


MAPK3 (non-ER binding)

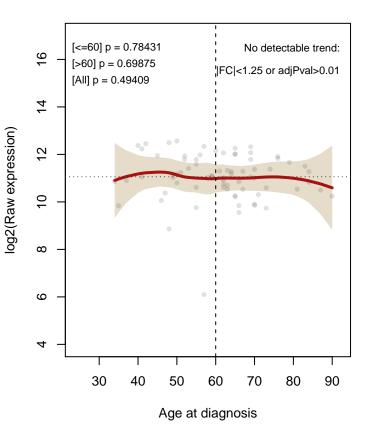
MDM2 (non-ER binding)

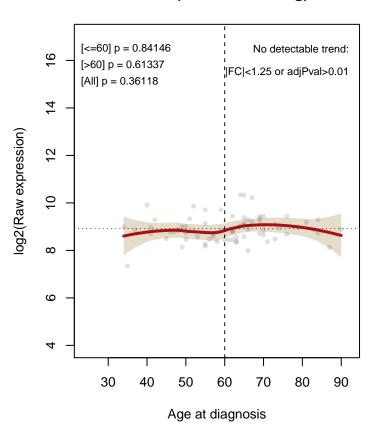






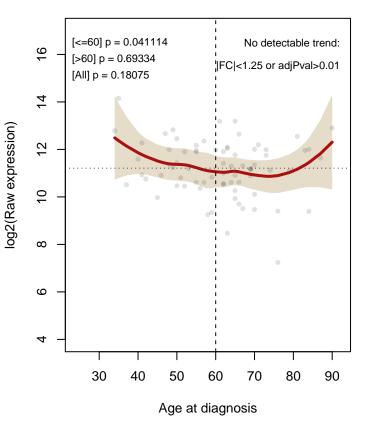
MTF2 (non-ER binding)

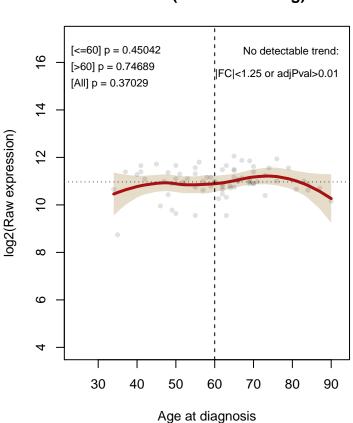


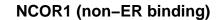


MYC (non-ER binding)

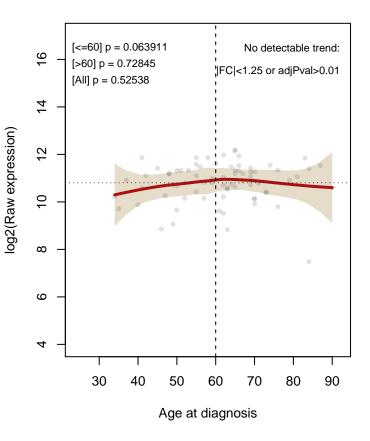
NCOA6 (non-ER binding)

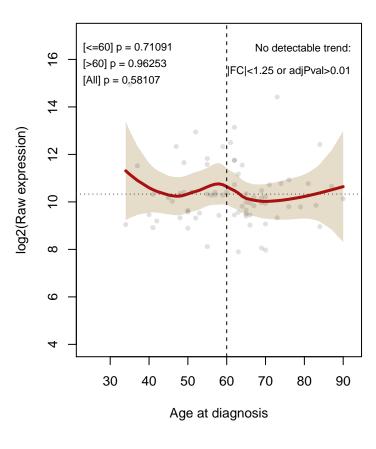






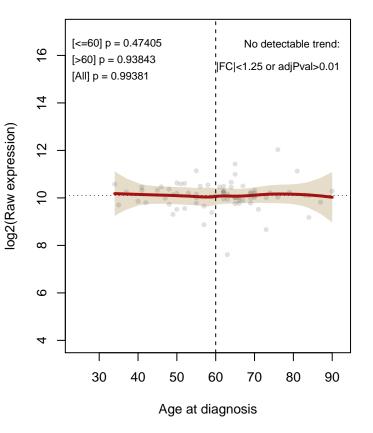
NES (non-ER binding)

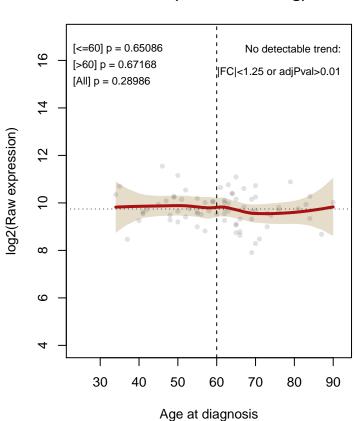




NFKB1 (non-ER binding)

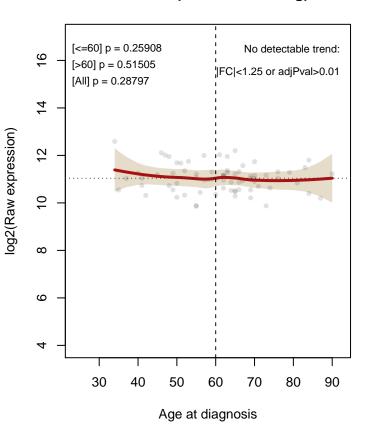
NFKB2 (non-ER binding)

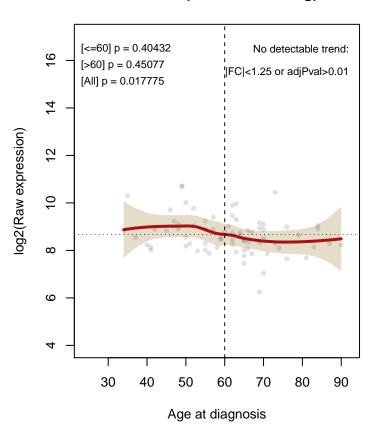




NFKBIA (non-ER binding)

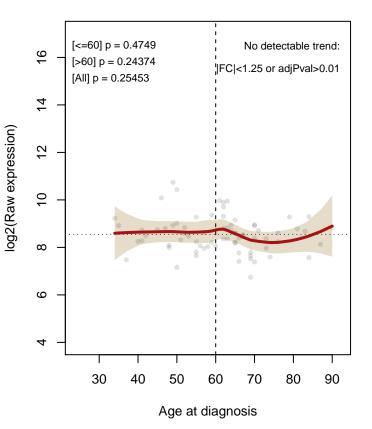
NFKBIB (non-ER binding)

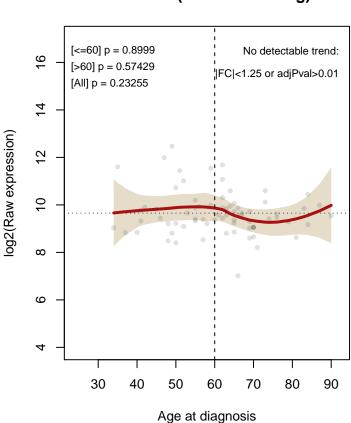




NFKBIE (non-ER binding)

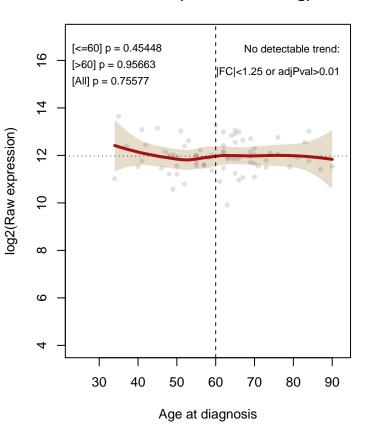
NOTCH1 (non-ER binding)

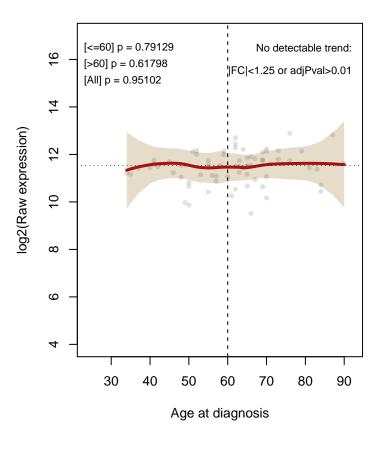




NOTCH2 (non-ER binding)

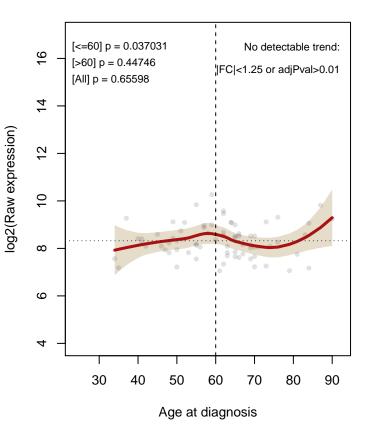
NOTCH3 (non-ER binding)

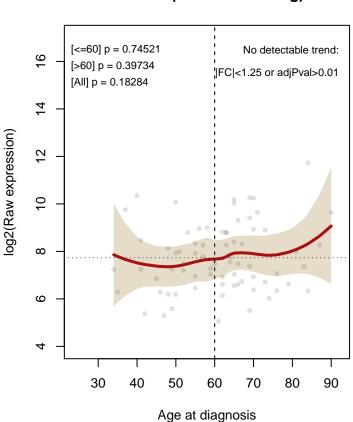


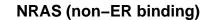


NOTCH4 (non-ER binding)

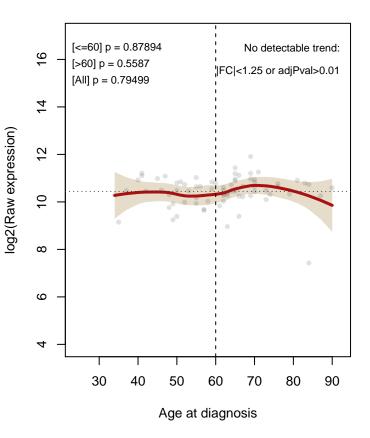
NR4A2 (non-ER binding)

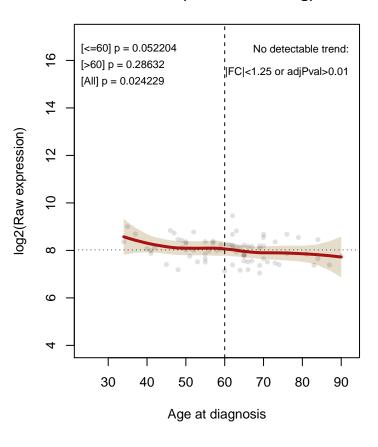






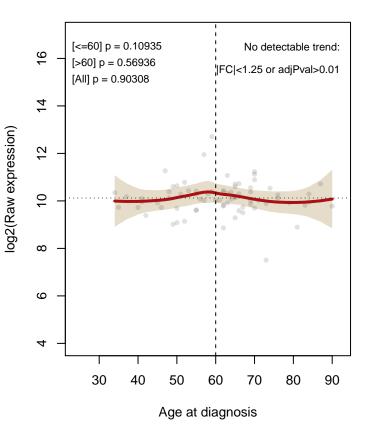
PCGF1 (non-ER binding)

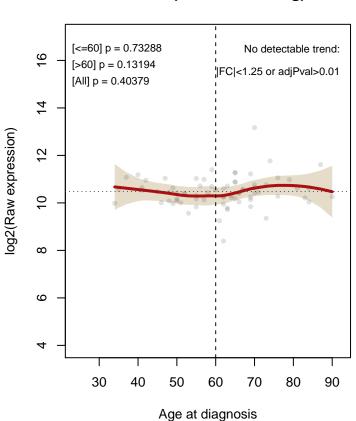




PCGF2 (non-ER binding)

PCGF3 (non-ER binding)















log2(Raw expression)

log2(Raw expression)

12

19

ω

30

40



50

Age at diagnosis

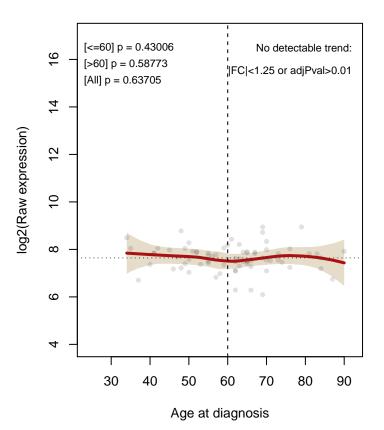
60

70

80

90

PCGF6 (non-ER binding)

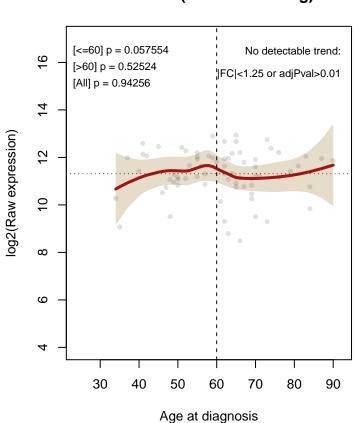


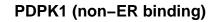
PDGFRA (non-ER binding)

[<=60] p = 0.55535No detectable trend: 16 [>60] p = 0.34872 FC|<1.25 or adjPval>0.01 [All] p = 0.0274614 12 19 ω 9 30 40 50 70 80 90 60

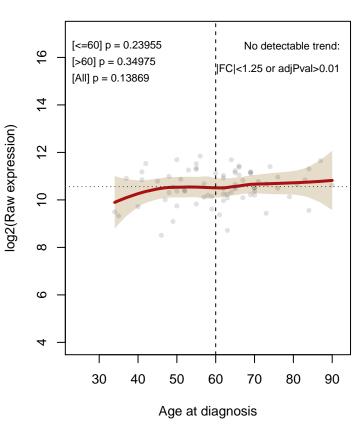
Age at diagnosis

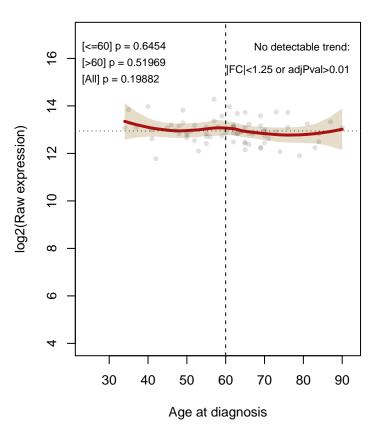
PDGFRB (non-ER binding)





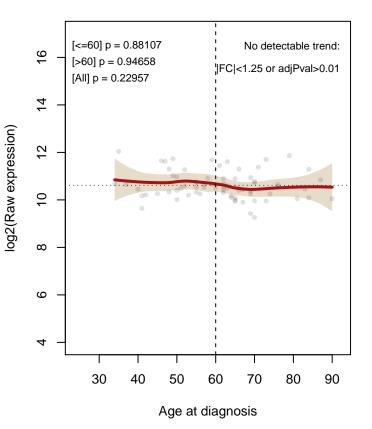
PEBP1 (non-ER binding)

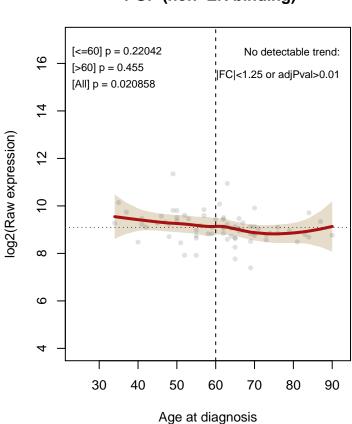


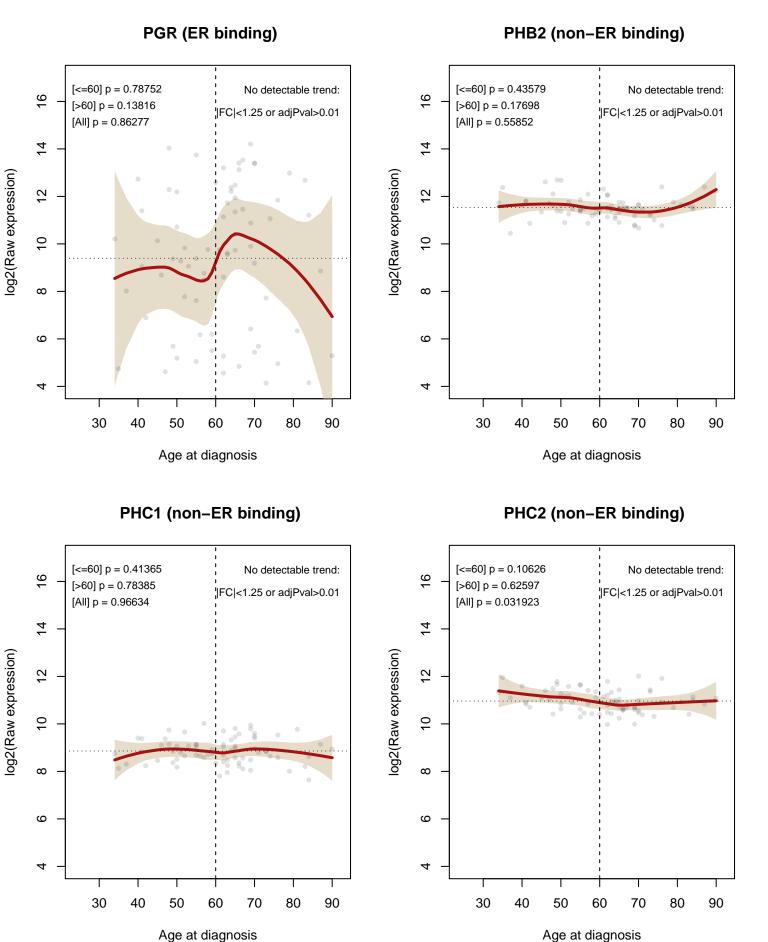


PELP1 (non-ER binding)

PGP (non-ER binding)

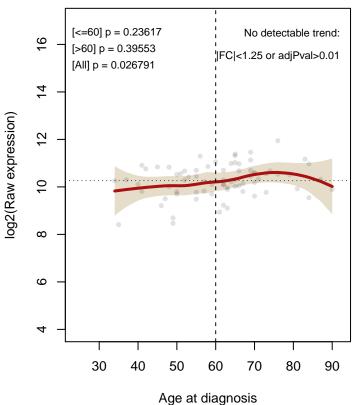


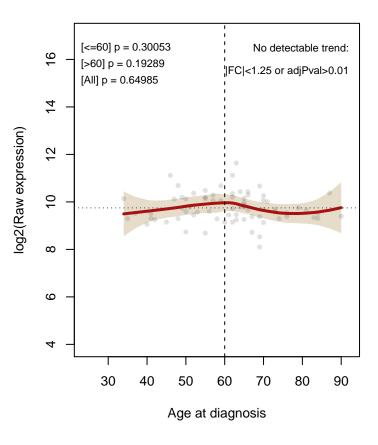






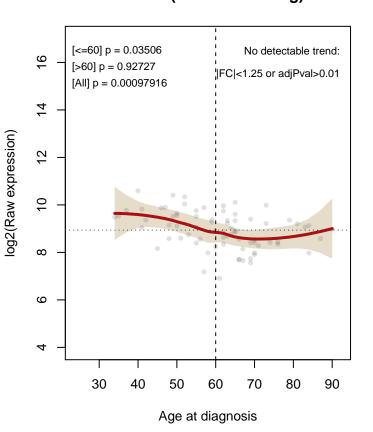
PHF1 (non-ER binding)

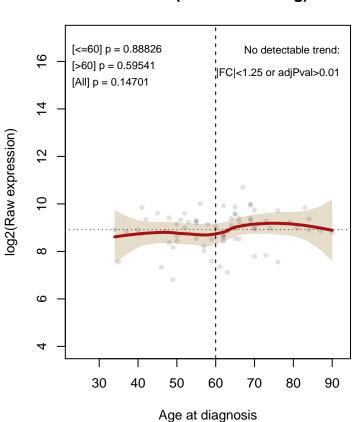




PHF19 (non-ER binding)

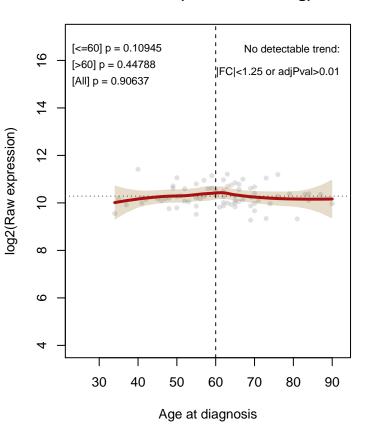
PIK3CA (non-ER binding)

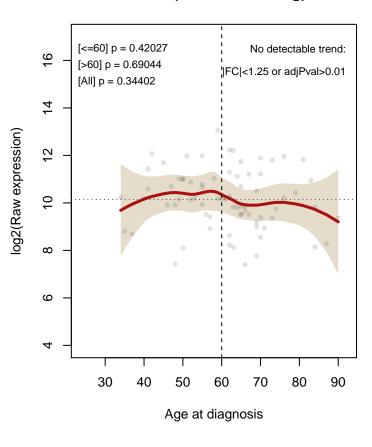




PIP5K1C (non-ER binding)

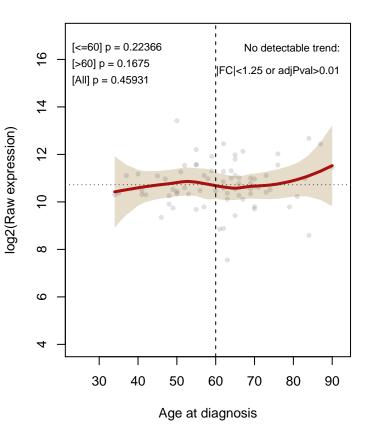
PLAU (non-ER binding)

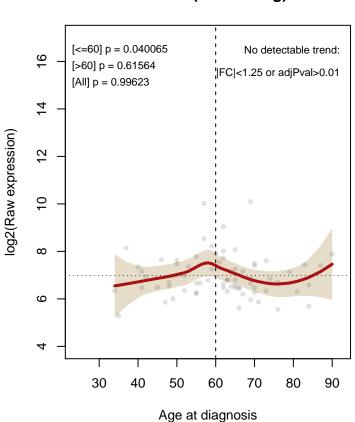


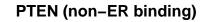


PODXL (non-ER binding)

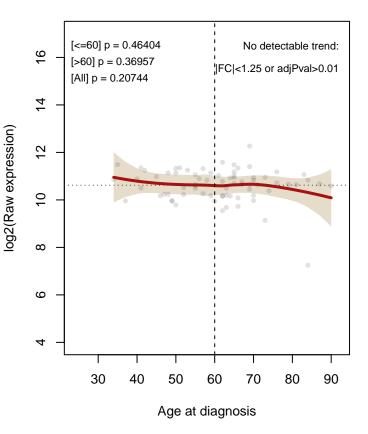
PPARG (ER binding)

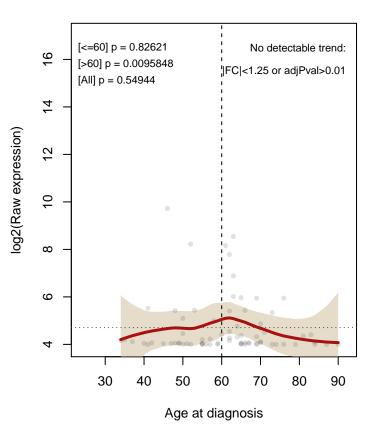






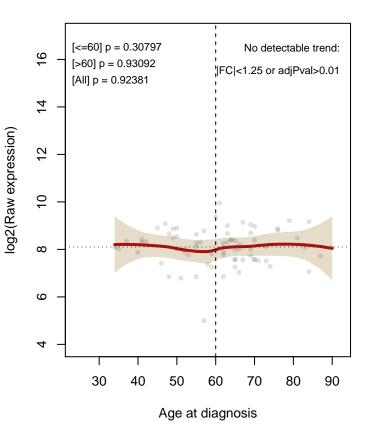
PYDC1 (non-ER binding)

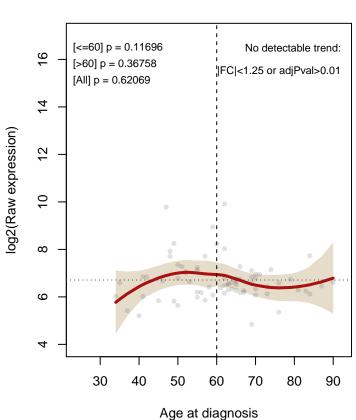




RAD51 (non-ER binding)

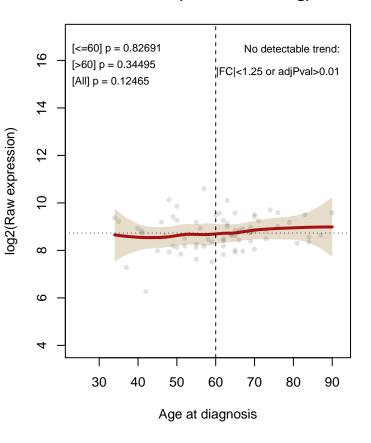
RAD51B (ER binding)

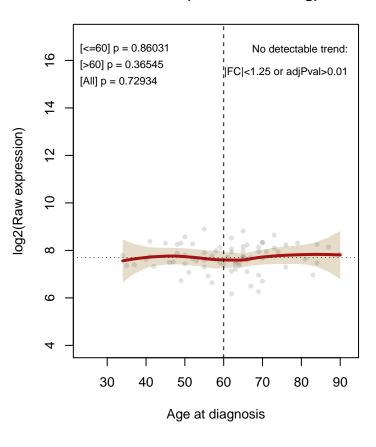




RAD51C (non-ER binding)

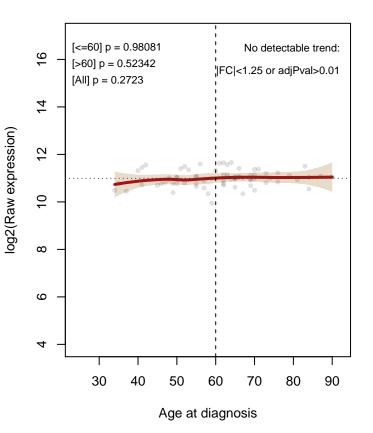
RAD51D (non-ER binding)

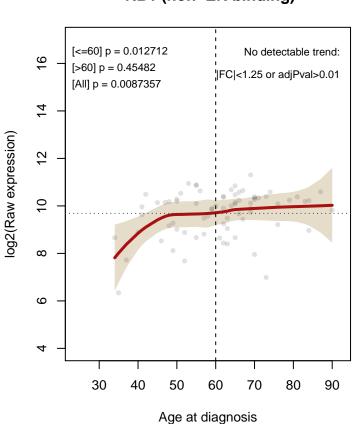


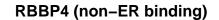


RAF1 (non-ER binding)

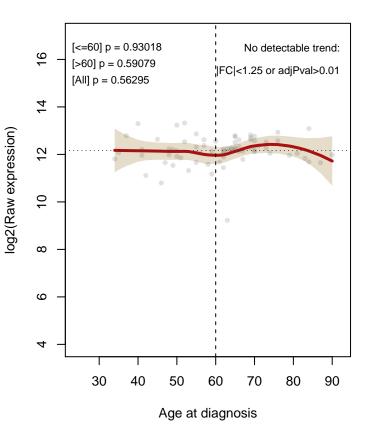
RB1 (non-ER binding)

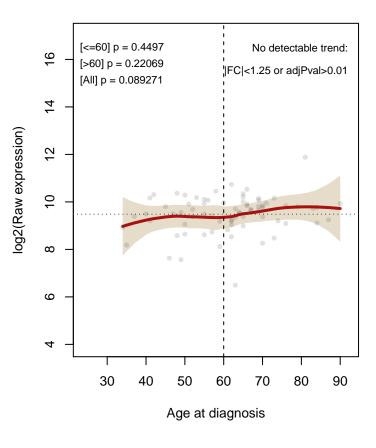






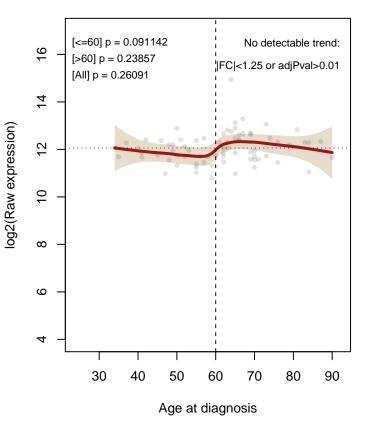
RBBP5 (non-ER binding)

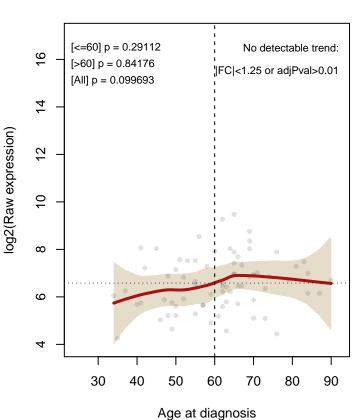


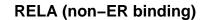


RBBP7 (non-ER binding)

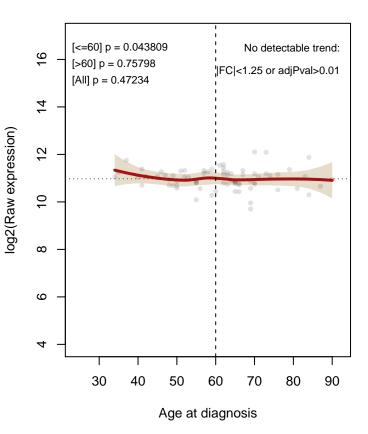
REL (non-ER binding)

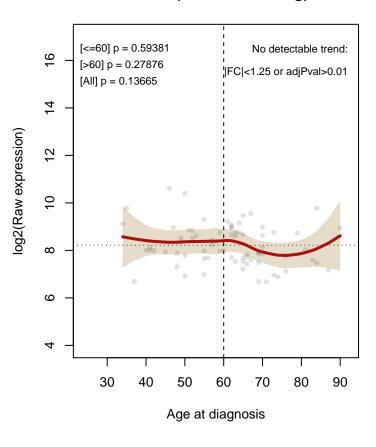






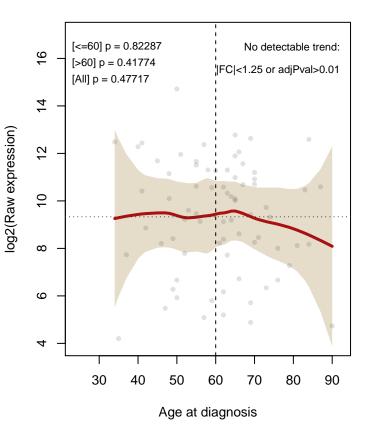
RELB (non-ER binding)

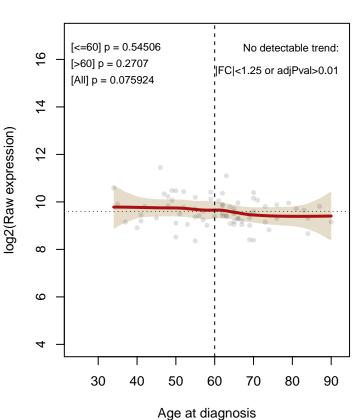




RET (ER binding)

RING1 (non-ER binding)





RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.42008No detectable trend: [<=60] p = 0.91441No detectable trend: 16 16 [>60] p = 0.54956 [>60] p = 0.67537 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.79808[All] p = 0.957114 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.18928No detectable trend: [<=60] p = 0.0093796 No detectable trend: 16 16 [>60] p = 0.37036 [>60] p = 0.13021 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.030723[AII] p = 0.00018264 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

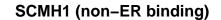
60

Age at diagnosis

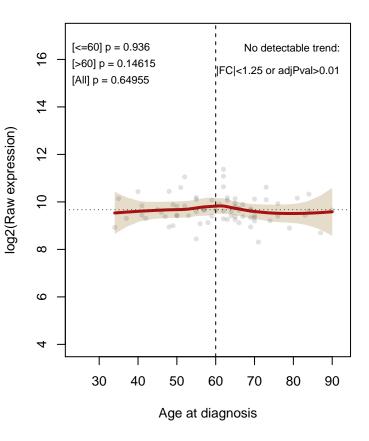
70

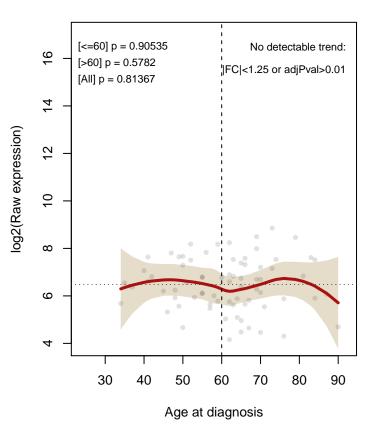
80

90



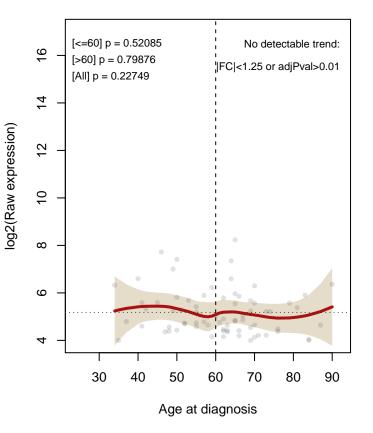
SCML2 (non-ER binding)

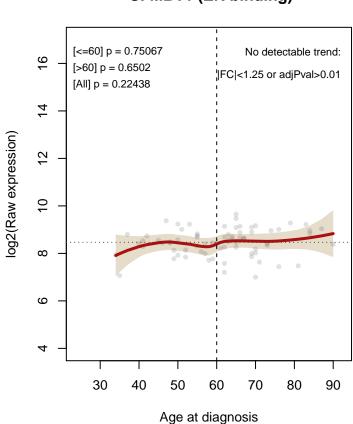




SCML4 (non-ER binding)

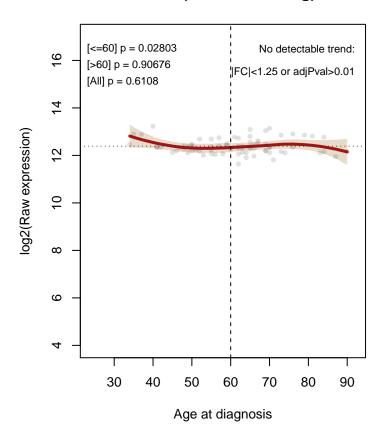
SFMBT1 (ER binding)

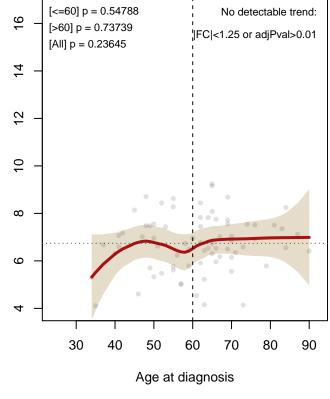




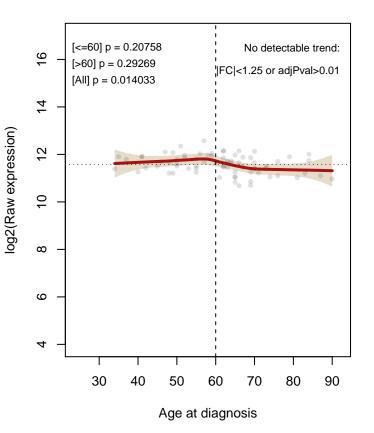
SFMBT2 (ER binding) [<=60] p = 0.5478816 [>60] p = 0.73739 [All] p = 0.236454 log2(Raw expression) 12

SFPQ (non-ER binding)

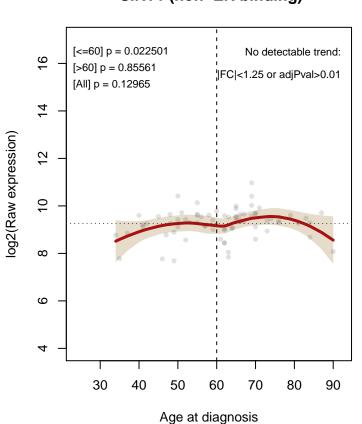




SHC1 (non-ER binding)

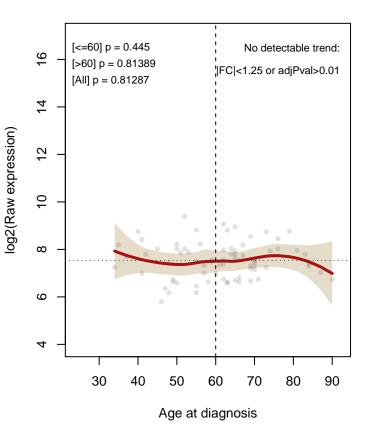


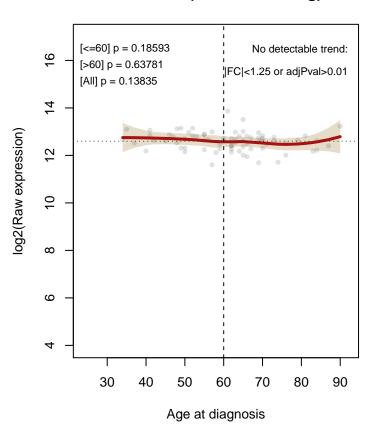
SIRT1 (non-ER binding)



SKP2 (non-ER binding)

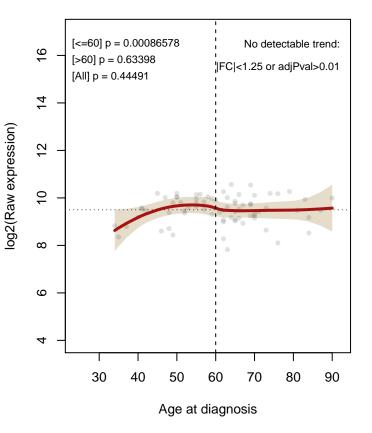
SLC25A3 (non-ER binding)

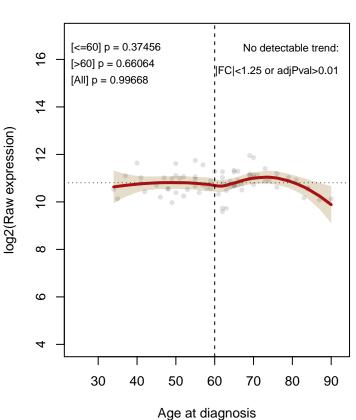




SMAD1 (non-ER binding)

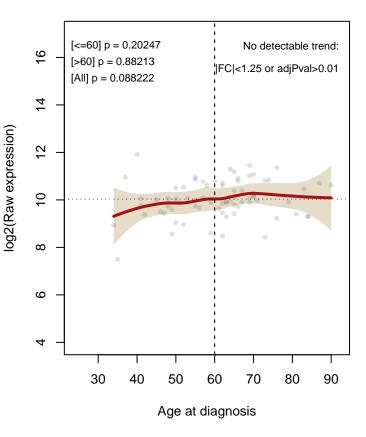
SMAD2 (non-ER binding)

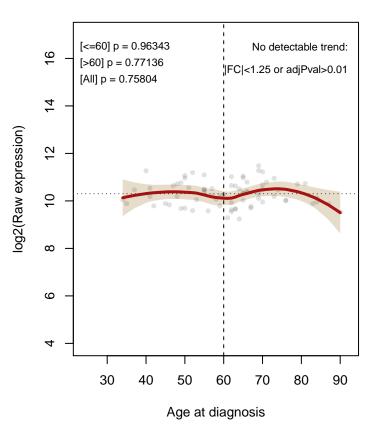






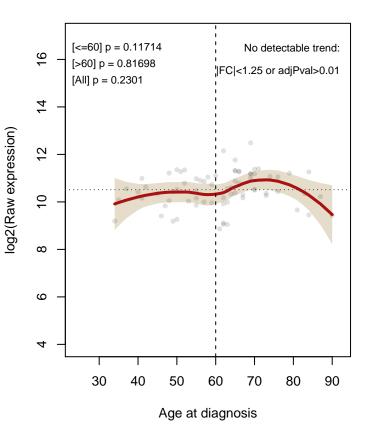
SMAD4 (non-ER binding)

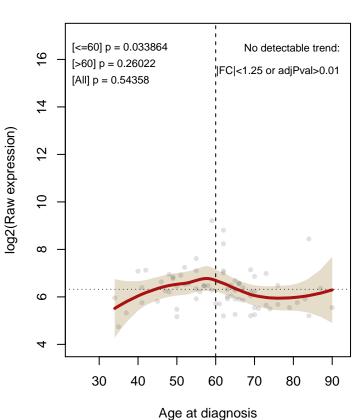


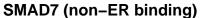


SMAD5 (non-ER binding)

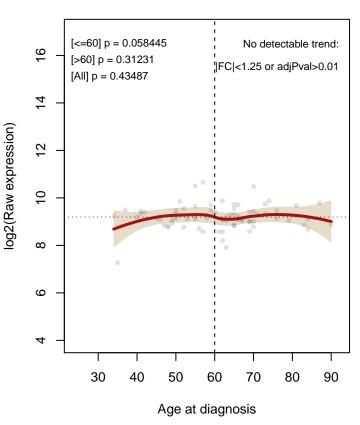
SMAD6 (non-ER binding)

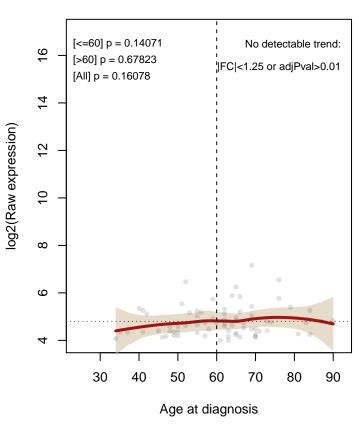






SMAD9 (non-ER binding)



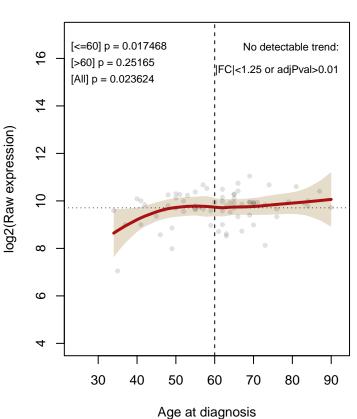


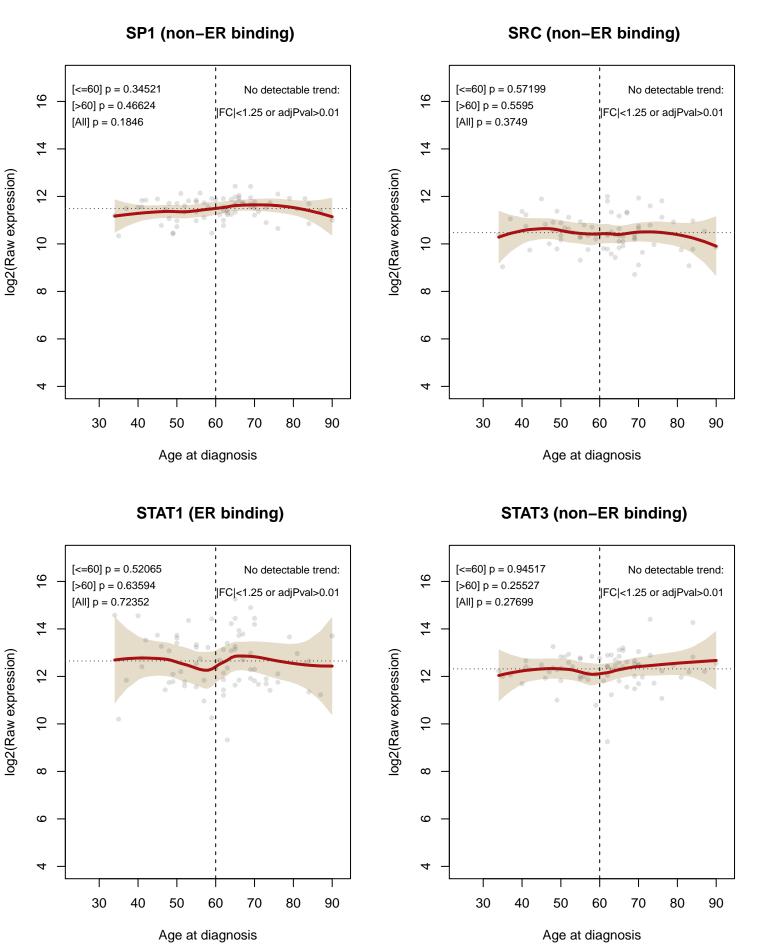
SOS1 (non-ER binding)

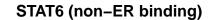
[<=60] p = 0.12164No detectable trend: 16 [>60] p = 0.93945 FC|<1.25 or adjPval>0.01 [All] p = 0.613594 log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

Age at diagnosis

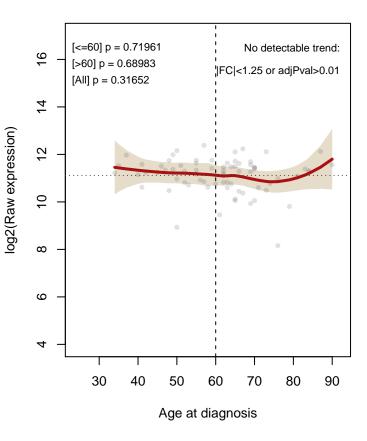
SOS2 (non-ER binding)

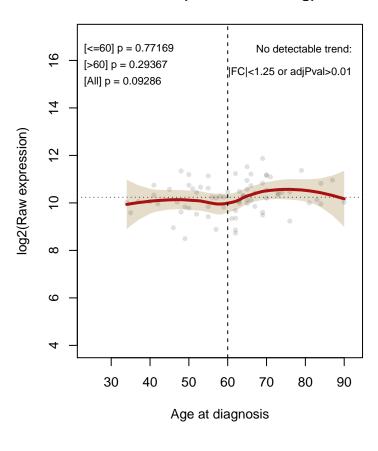






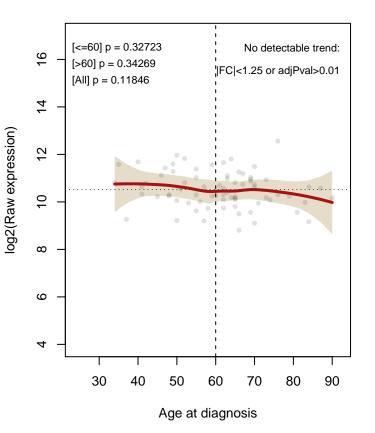
SUZ12 (non-ER binding)

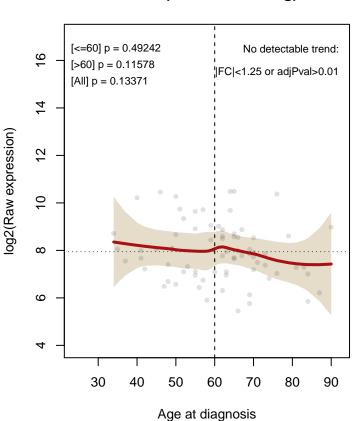




TCF3 (non-ER binding)

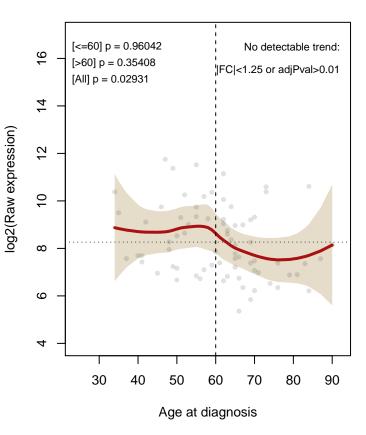
TCF7 (non-ER binding)

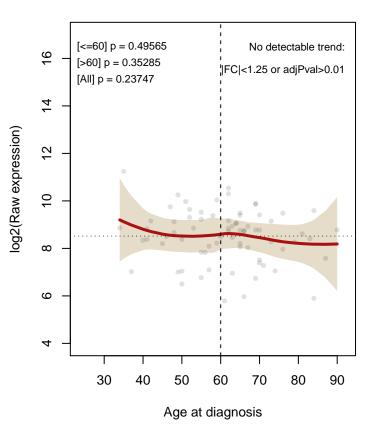






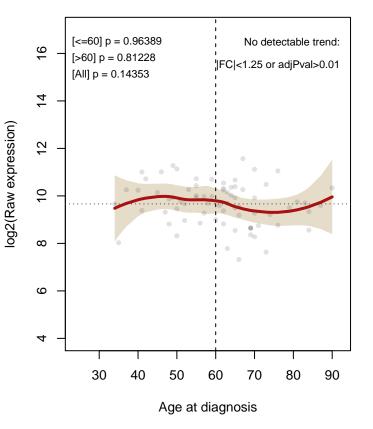
TCF7L2 (non-ER binding)

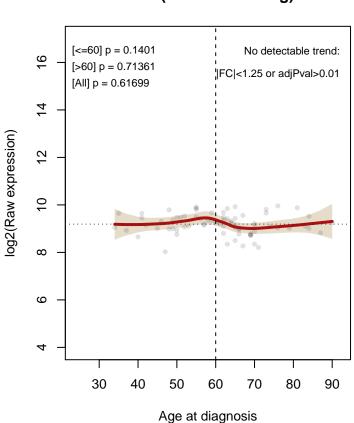


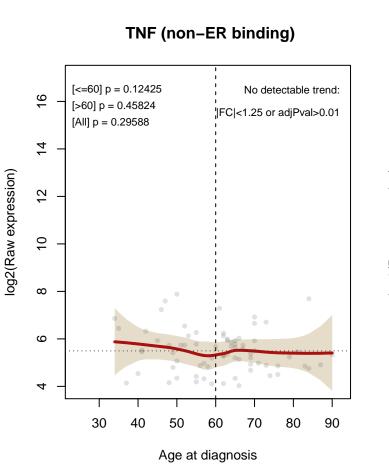


TGFB1 (non-ER binding)

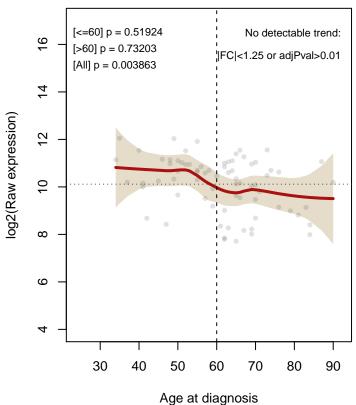
TK2 (non-ER binding)



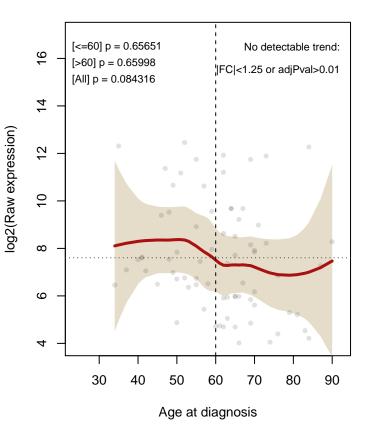




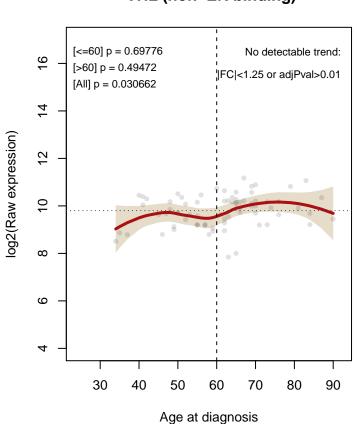
TP53 (non-ER binding)

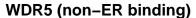


TRIM29 (non-ER binding)

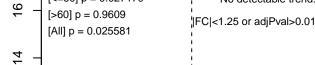


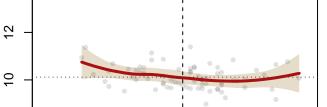
VHL (non-ER binding)





[<=60] p = 0.027179No detectable trend:







log2(Raw expression)

Age at diagnosis

50

30

40

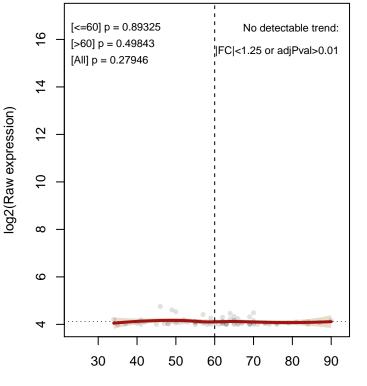
WNT1 (non-ER binding)

60

70

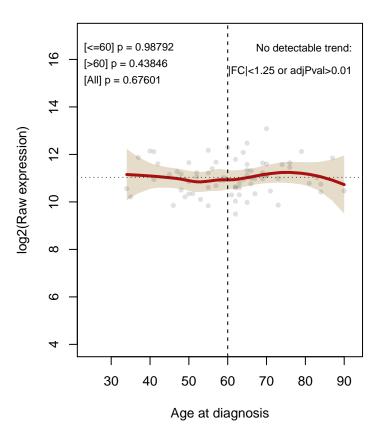
80

90

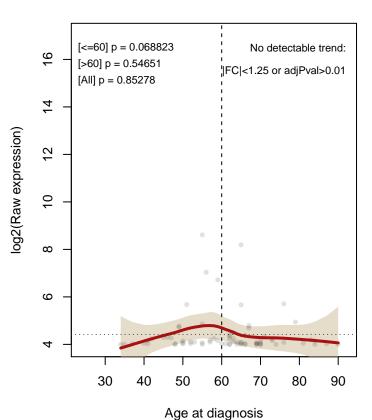


Age at diagnosis

WHSC1 (non-ER binding)

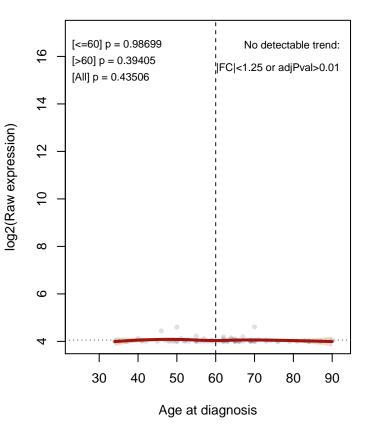


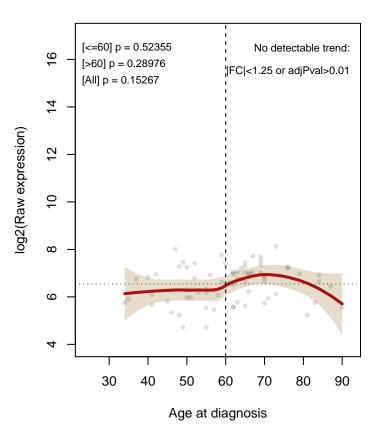
WNT3A (non-ER binding)





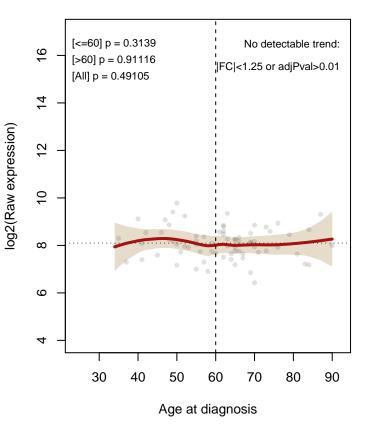
XRCC2 (non-ER binding)

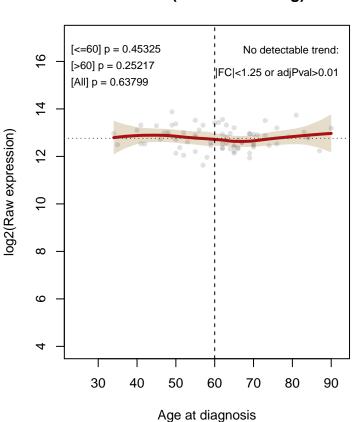




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

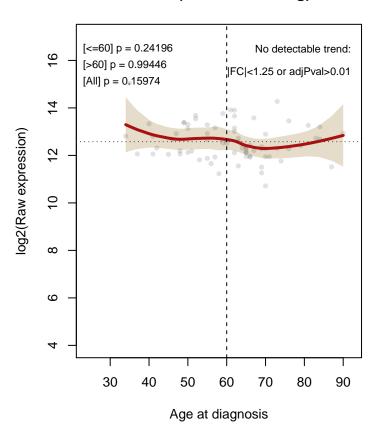




YAF2 (non-ER binding)

[<=60] p = 0.87198No detectable trend: 16 [>60] p = 0.40464 |FC|<1.25 or adjPval>0.01 [All] p = 0.921334 log2(Raw expression) 12 10 ω 9 4 30 40 50 60 70 80 90

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

