

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.20174No detectable trend: [<=60] p = 0.52436No detectable trend: 16 16 [>60] p = 0.27951 [>60] p = 0.18878 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.42068[All] p = 0.397344 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 = 0.95954No detectable trend: [<=60] p = 0.51356No detectable trend: 16 16 [>60] p = 0.52051 [>60] p = 0.52246 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.92699[All] p = 0.536314 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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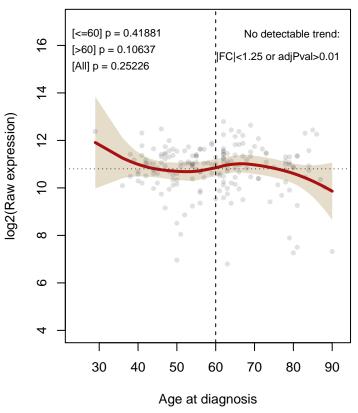
Age at diagnosis

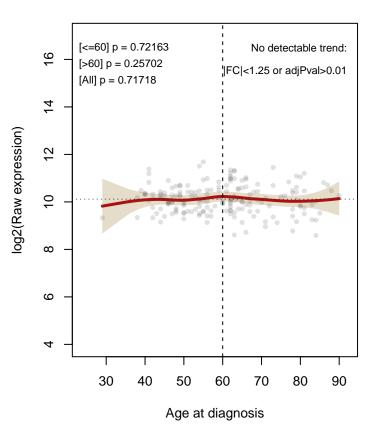
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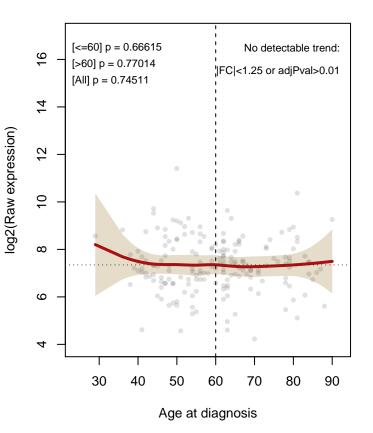
BCL3 (non-ER binding)

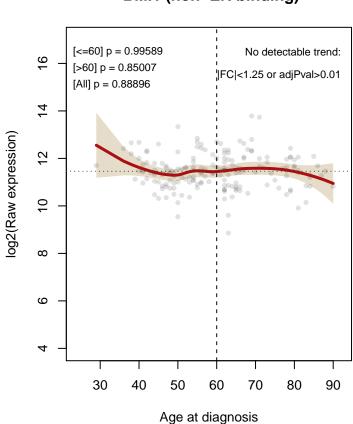




BIRC5 (non-ER binding)

BMI1 (non-ER binding)





BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.29382No detectable trend: [<=60] p = 0.7874No detectable trend: 16 16 [>60] p = 0.11954 [>60] p = 0.83937 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.13002[All] p = 0.638934 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 70 80 90 30 40 50 60 70 80 90 50 60 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.42786No detectable trend: [<=60] p = 0.8921No detectable trend: 16 16 [>60] p = 0.068429 [>60] p = 0.14043 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.25473[All] p = 0.0955344 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

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Age at diagnosis

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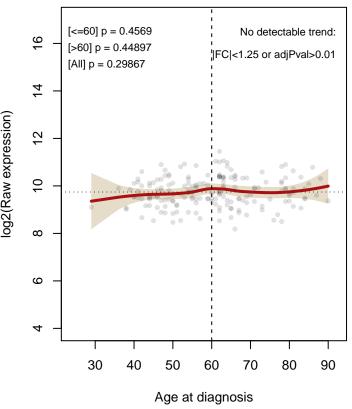
Age at diagnosis

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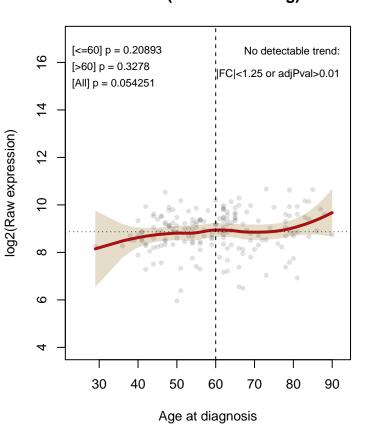
CBX2 (non-ER binding) [<=60] p = 0.93768No detectable trend: 16 16 [>60] p = 0.82926 FC|<1.25 or adjPval>0.01 [All] p = 0.378114 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ω 9 9 30 40 50 60 70 80 90 30

CBX4 (non-ER binding)

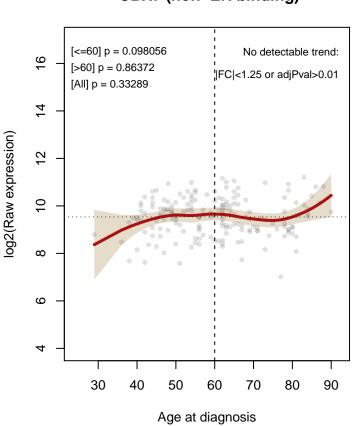


CBX6 (non-ER binding)

Age at diagnosis

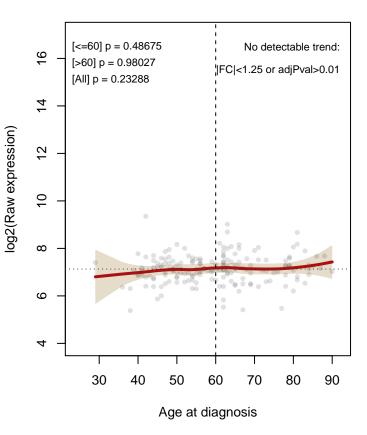


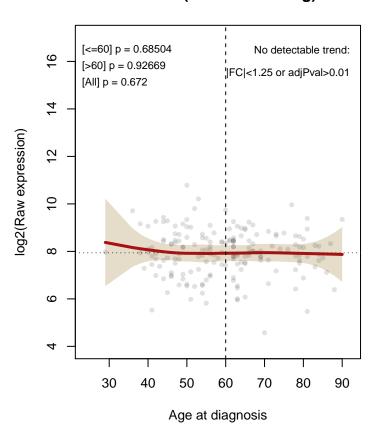
CBX7 (non-ER binding)





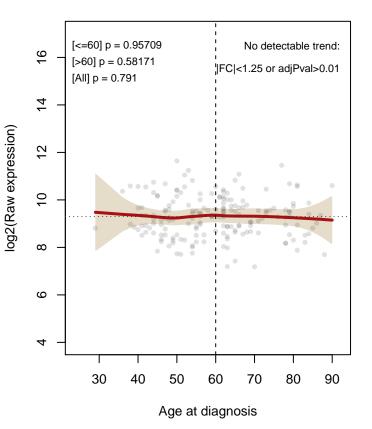
CCNA2 (non-ER binding)

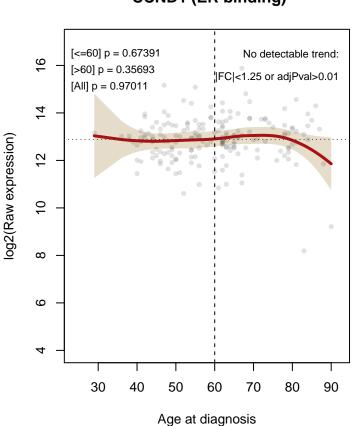


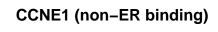


CCNB1 (non-ER binding)

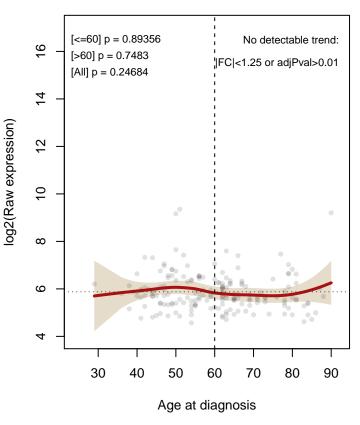
CCND1 (ER binding)

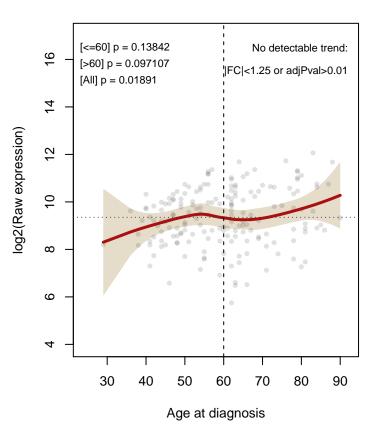






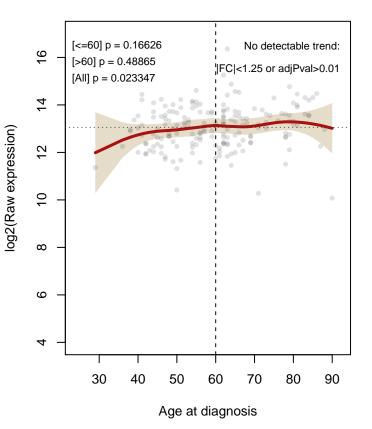
CD163 (non-ER binding)

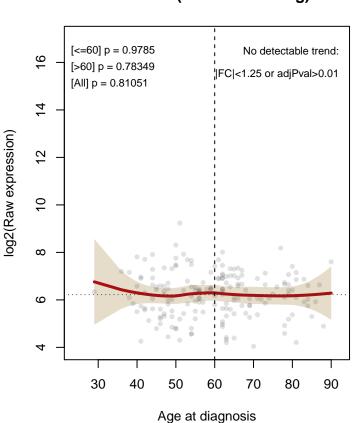


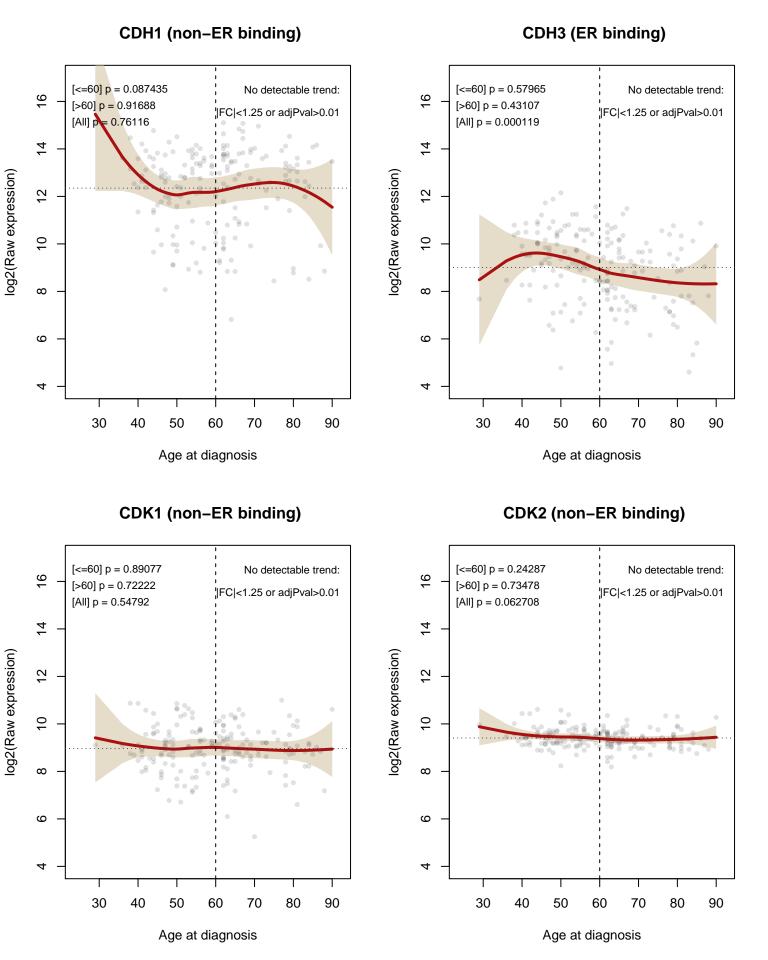


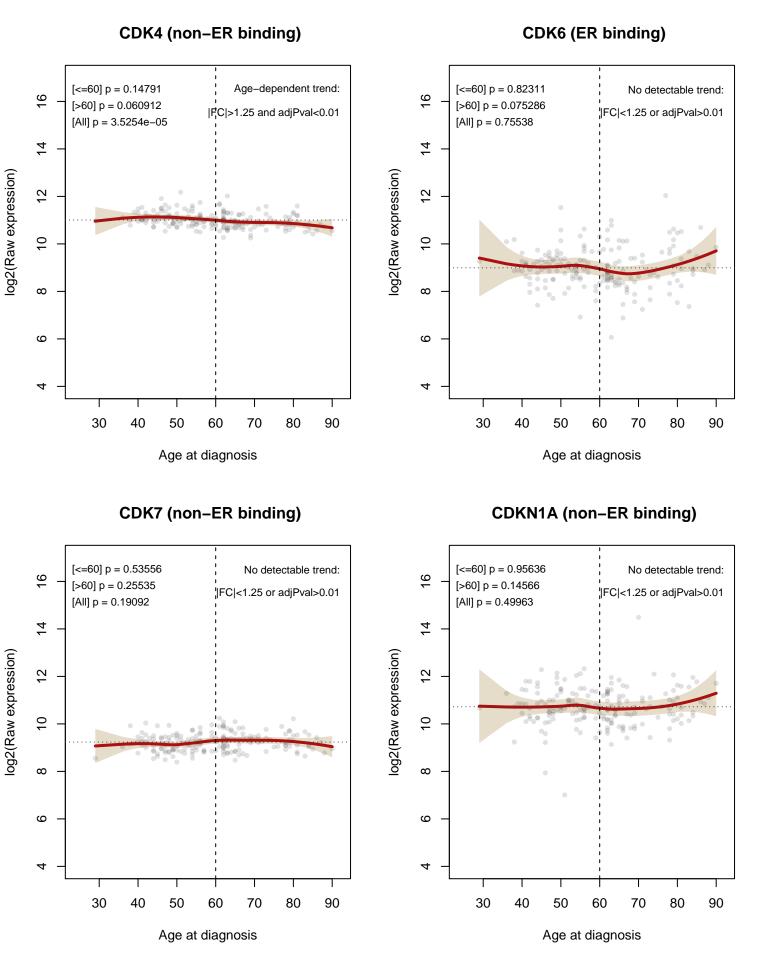
CD44 (non-ER binding)

CDC25C (non-ER binding)



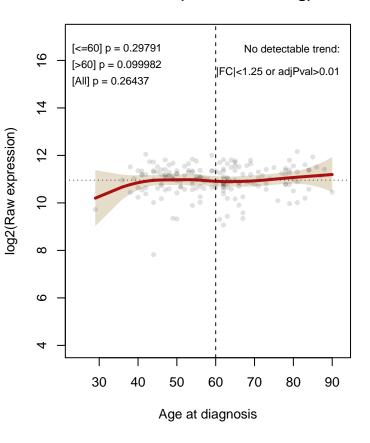


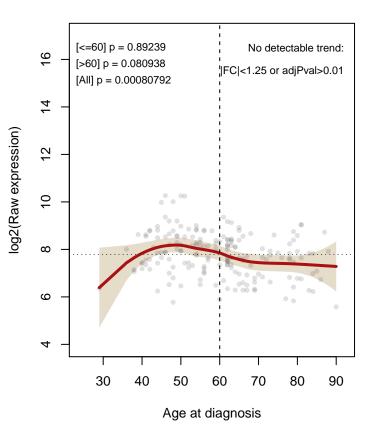




CDKN1B (non-ER binding)

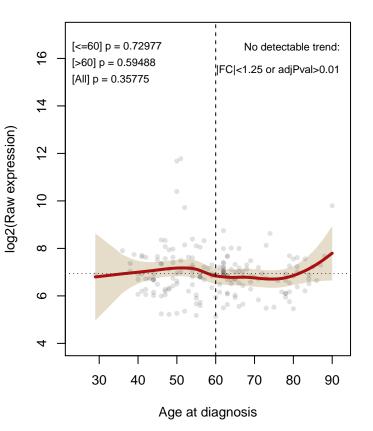
CDKN1C (non-ER binding)

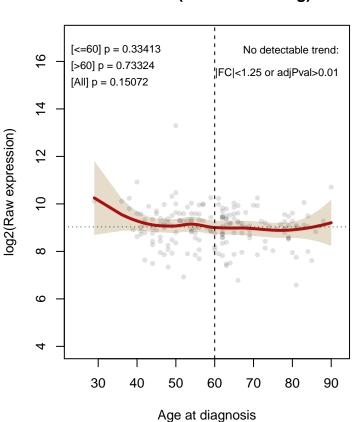


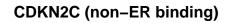


CDKN2A (non-ER binding)

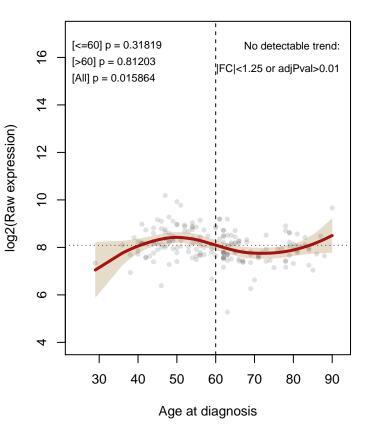
CDKN2B (non-ER binding)

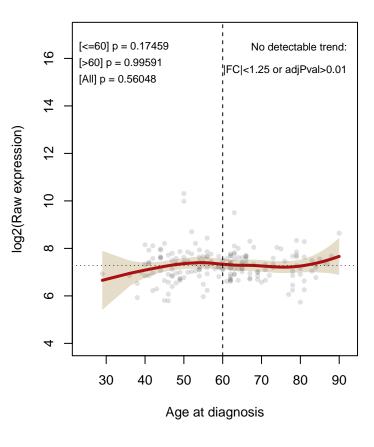






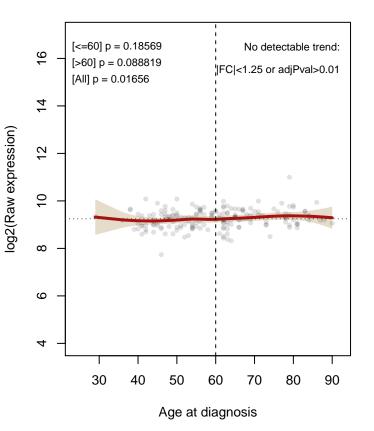
CDKN2D (non-ER binding)

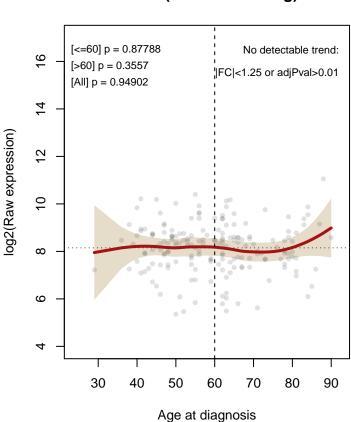




CHUK (non-ER binding)

CIITA (non-ER binding)





CLDN3 (non-ER binding)





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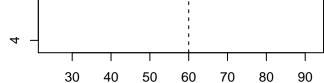
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log2(Raw expression)

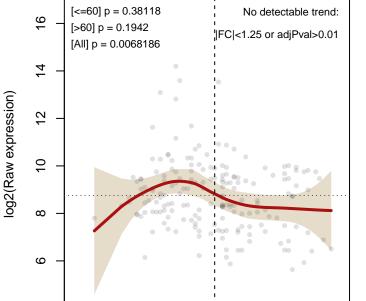


19 ω



Age at diagnosis

CRYAB (non-ER binding)



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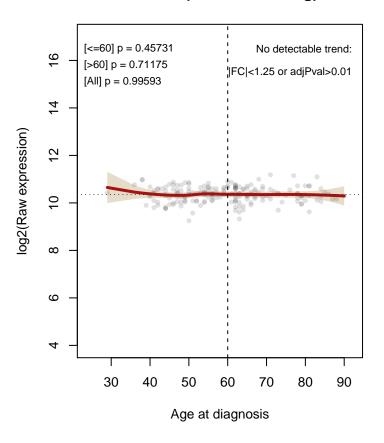
Age at diagnosis

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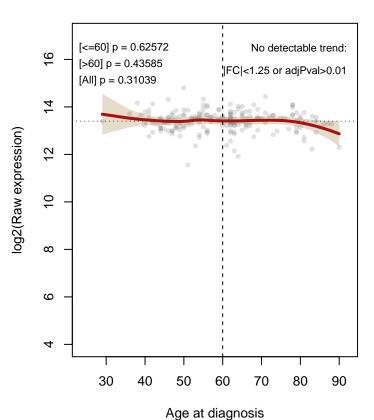
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CREB1 (non-ER binding)



CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.21226 No detectable trend: [<=60] p = 0.27978No detectable trend: 16 16 [>60] p = 0.0074285 [>60] p = 0.2294 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00021294[All] p = 0.0522324 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.60564No detectable trend: [<=60] p = 0.091705No detectable trend: 16 16 [>60] p = 0.1876[>60] p = 0.90528 FC|<1.25 or adjPval>0.01 FC|<1.25 or adjPval>0.01 [All] p = 0.44718[AII] p = 0.000172544 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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Age at diagnosis

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DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.47913No detectable trend: [<=60] p = 0.51968No detectable trend: 16 16 [>60] p = 0.1384 [>60] p = 0.30678 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.052813[All] p = 0.551024 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 E2F1 (non-ER binding) E2F2 (non-ER binding) [<=60] p = 0.26471No detectable trend: [<=60] p = 0.7806No detectable trend: 16 16 [>60] p = 0.59124 [>60] p = 0.3754 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.52159[All] p = 0.498544 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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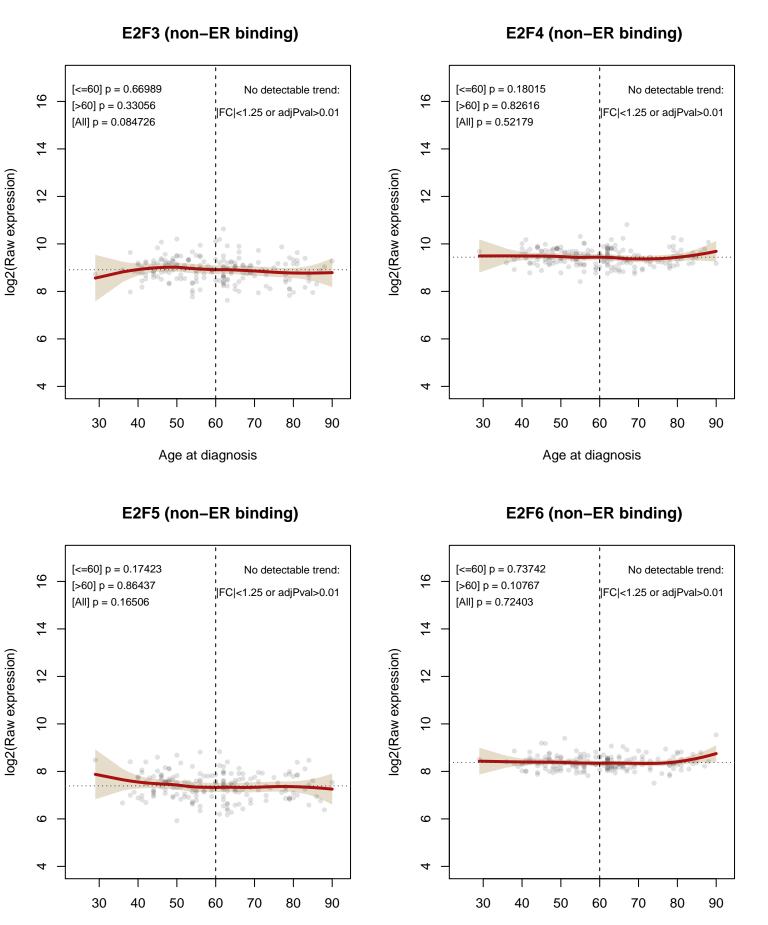
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Age at diagnosis

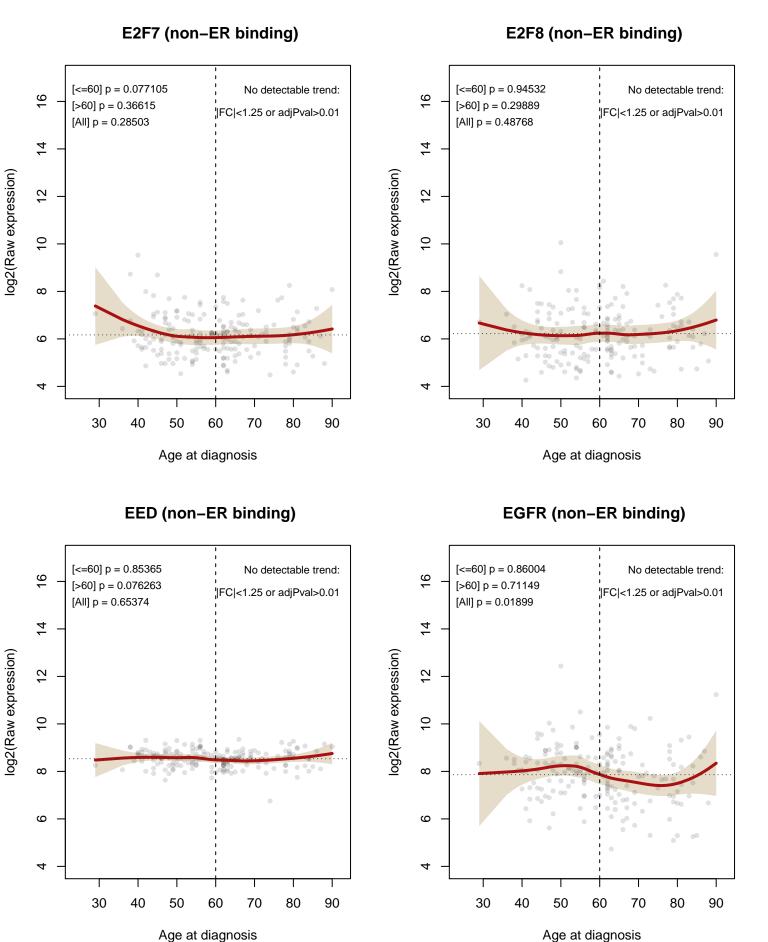
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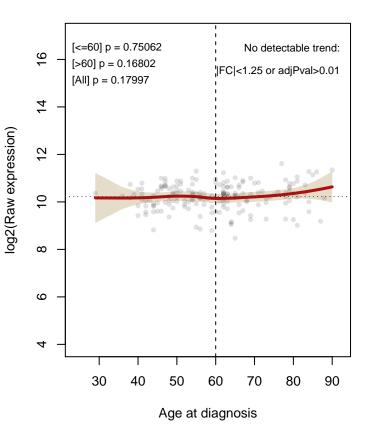
Age at diagnosis

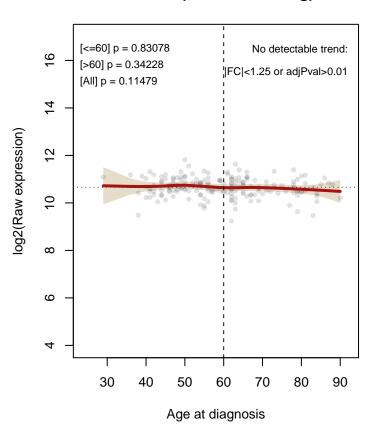
Age at diagnosis





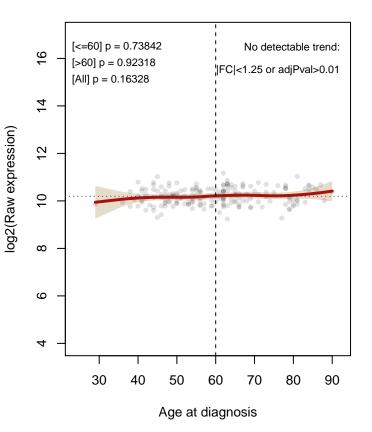
EHMT2 (non-ER binding)

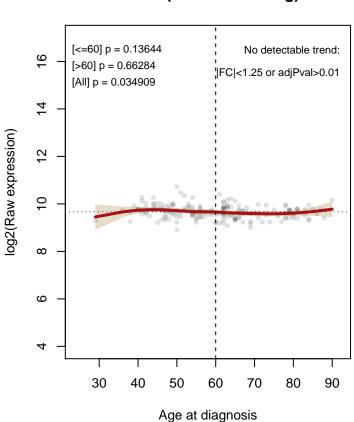




ELAC2 (non-ER binding)

ELK1 (non-ER binding)





EP300 (non-ER binding) **EPAS1** (non-ER binding) [<=60] p = 0.9641No detectable trend: [<=60] p = 0.3162No detectable trend: 16 16 [>60] p = 0.53232 [>60] p = 0.11424 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.46134[All] p = 0.442684 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 **EPC1** (non-ER binding) **EPC2** (non-ER binding) [<=60] p = 0.67605No detectable trend: [<=60] p = 0.99188No detectable trend: 16 16 [>60] p = 0.63677 [>60] p = 0.96265 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.76418[All] p = 0.377744 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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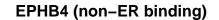
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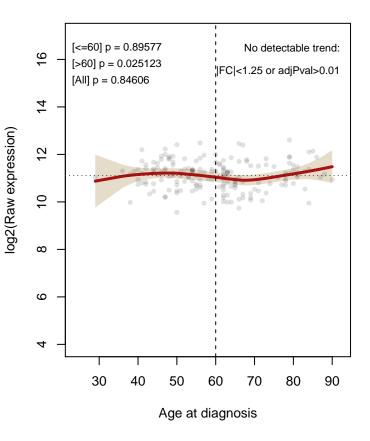
Age at diagnosis

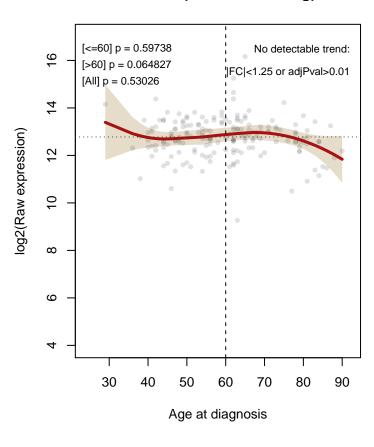
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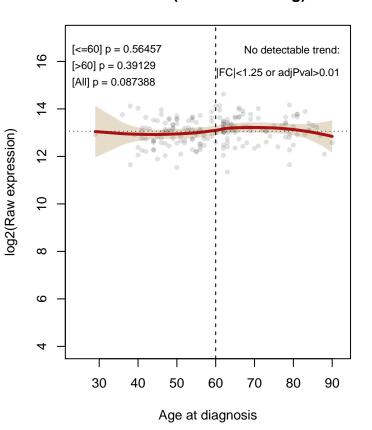
ERBB2 (non-ER binding)

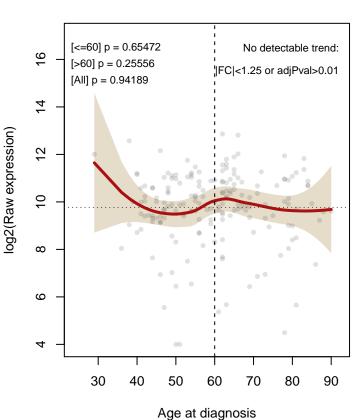


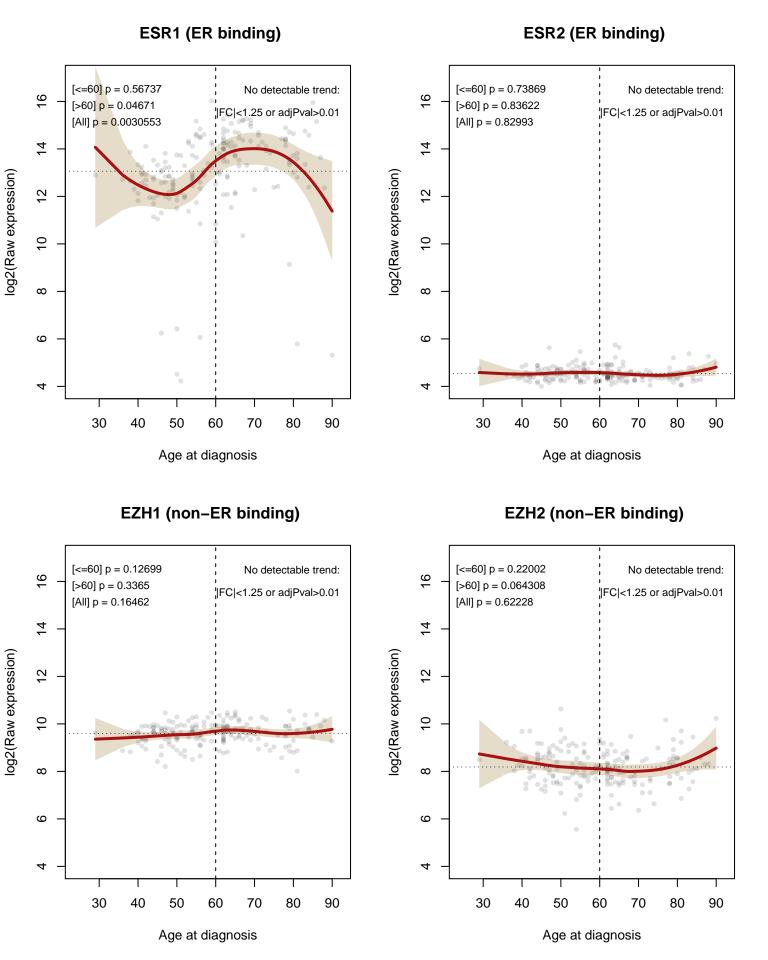


ERBB3 (non-ER binding)

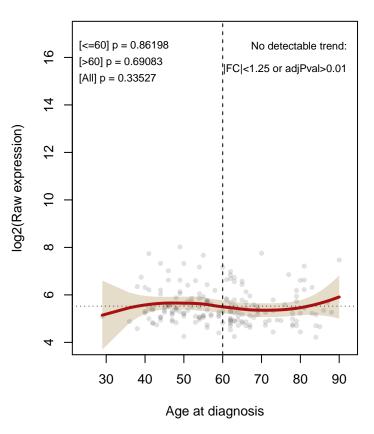
ERBB4 (ER binding)





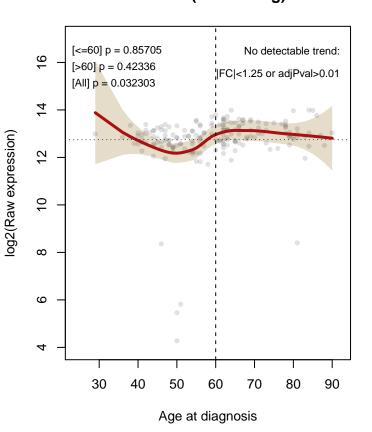


FOSL1 (non-ER binding)

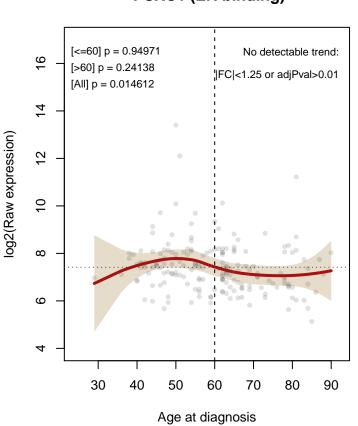


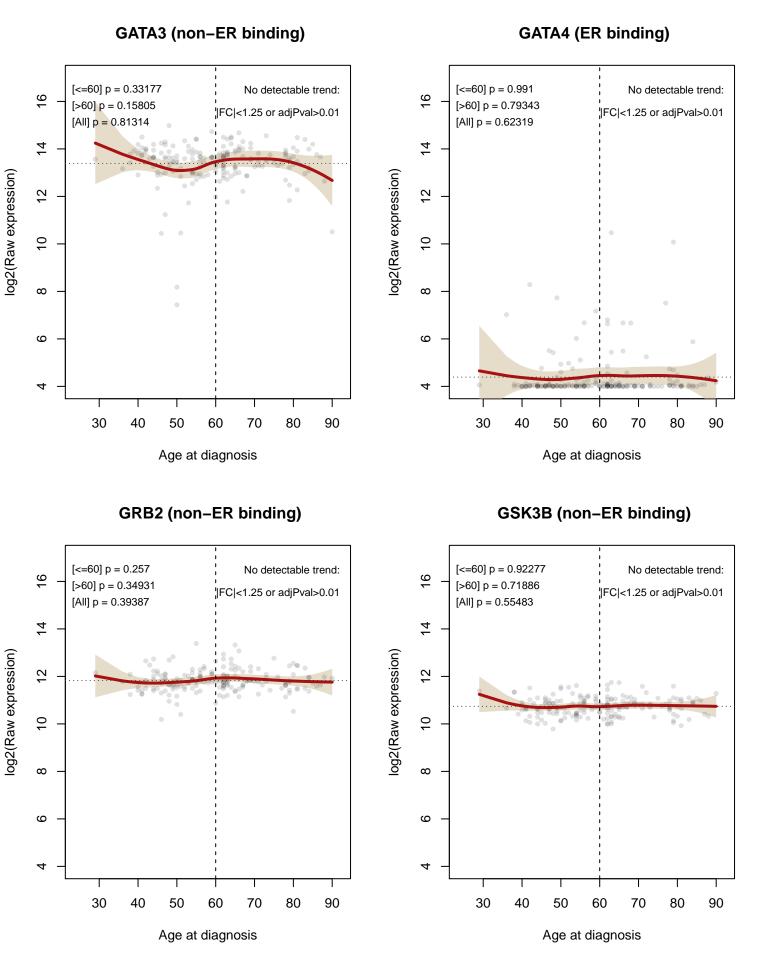
FOXA1 (ER binding)

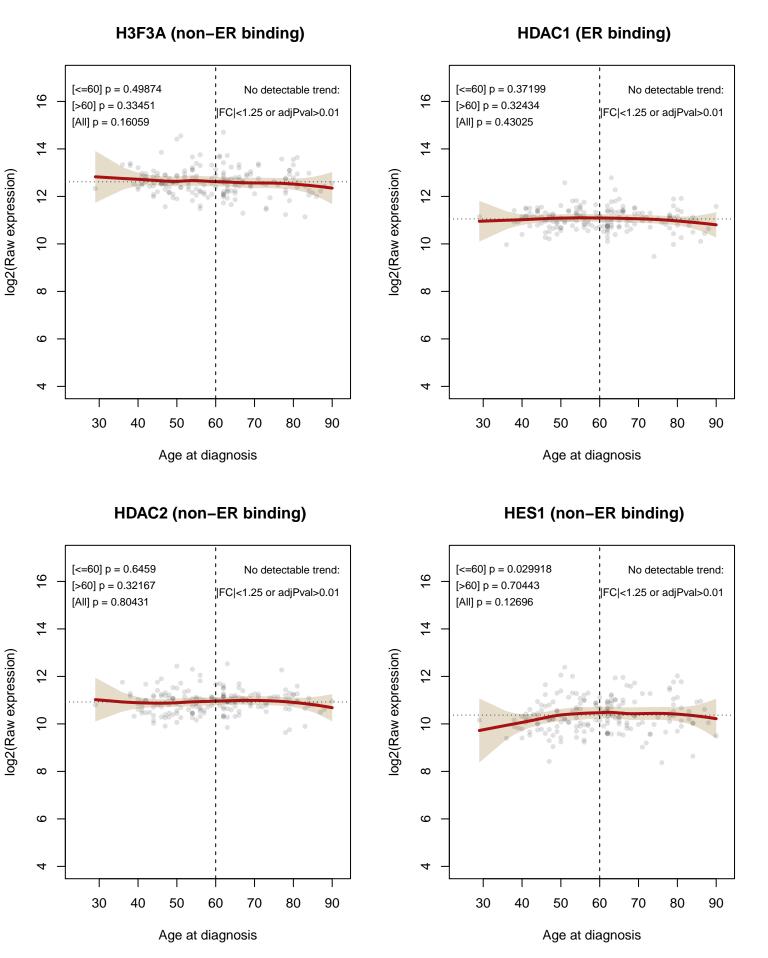
Age at diagnosis



FOXC1 (ER binding)

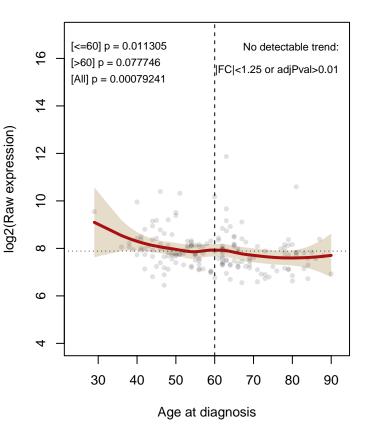


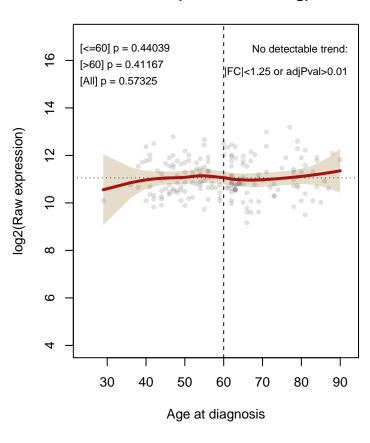






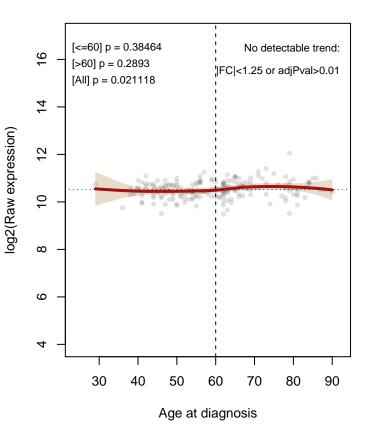
HIF1A (non-ER binding)

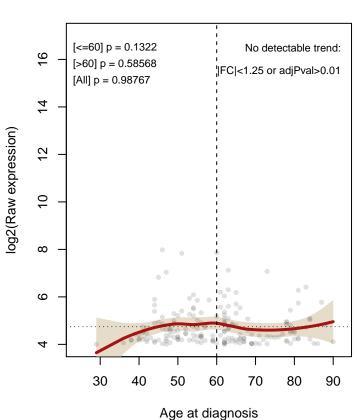




HIF1AN (non-ER binding)

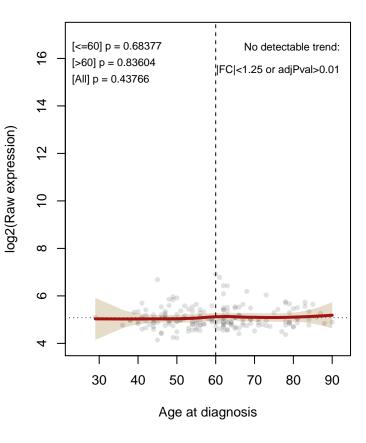
HIF3A (non-ER binding)

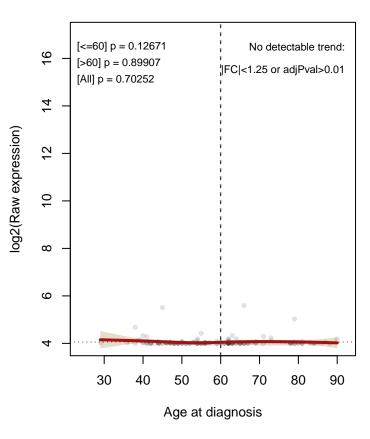






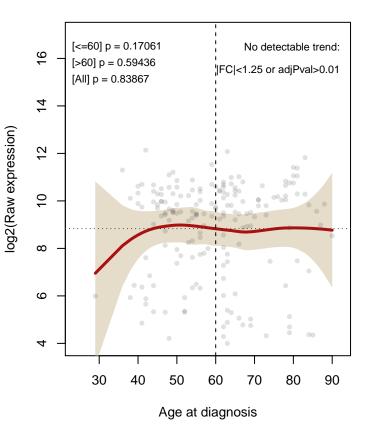
HNF1B (non-ER binding)

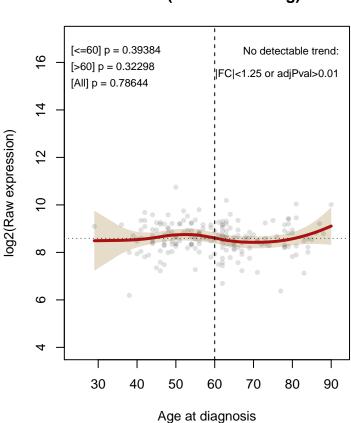




HOXC10 (non-ER binding)

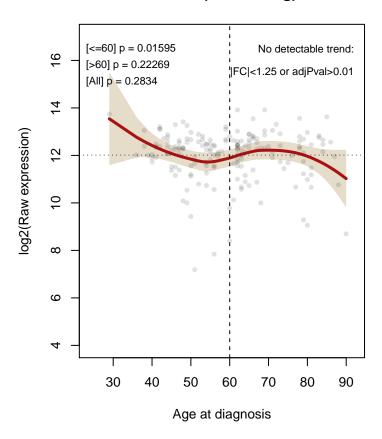
HRAS (non-ER binding)

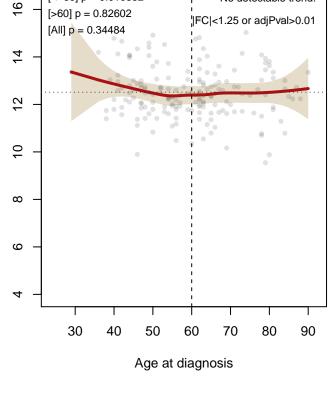




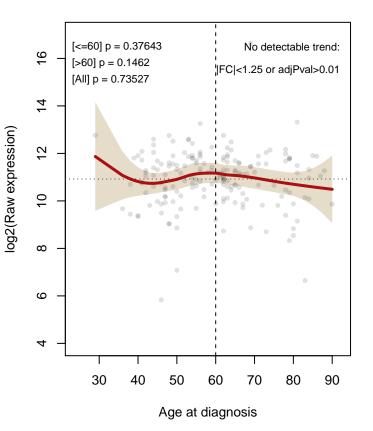
HSPB1 (non-ER binding) [<=60] p = 0.010332 No detectable trend: 16 [>60] p = 0.82602 [AII] p = 0.344844 log2(Raw expression) 12

IGF1R (ER binding)

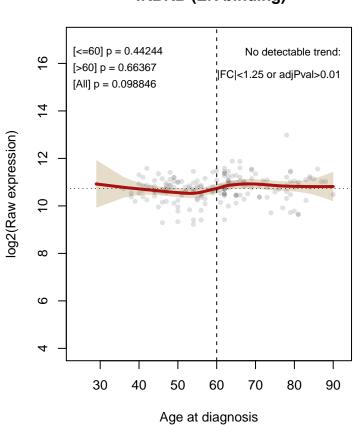




IGFBP2 (non-ER binding)

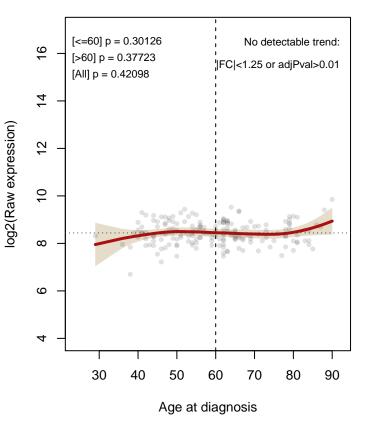


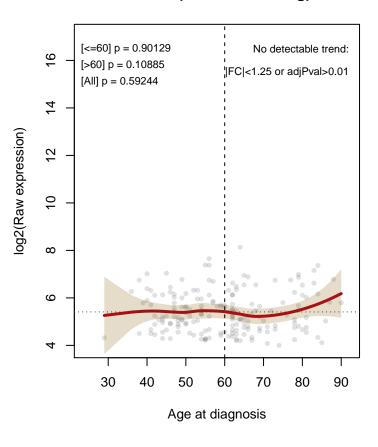
IKBKB (ER binding)





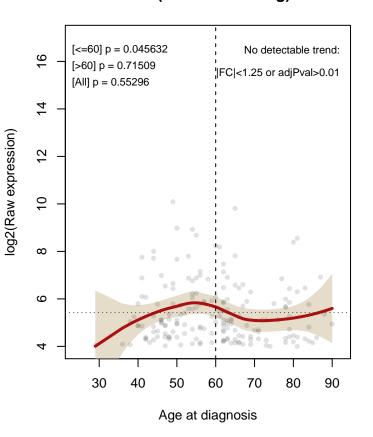
IL2RA (non-ER binding)

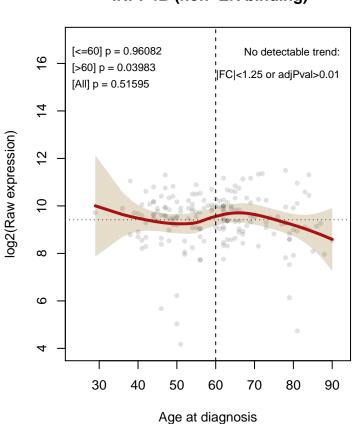


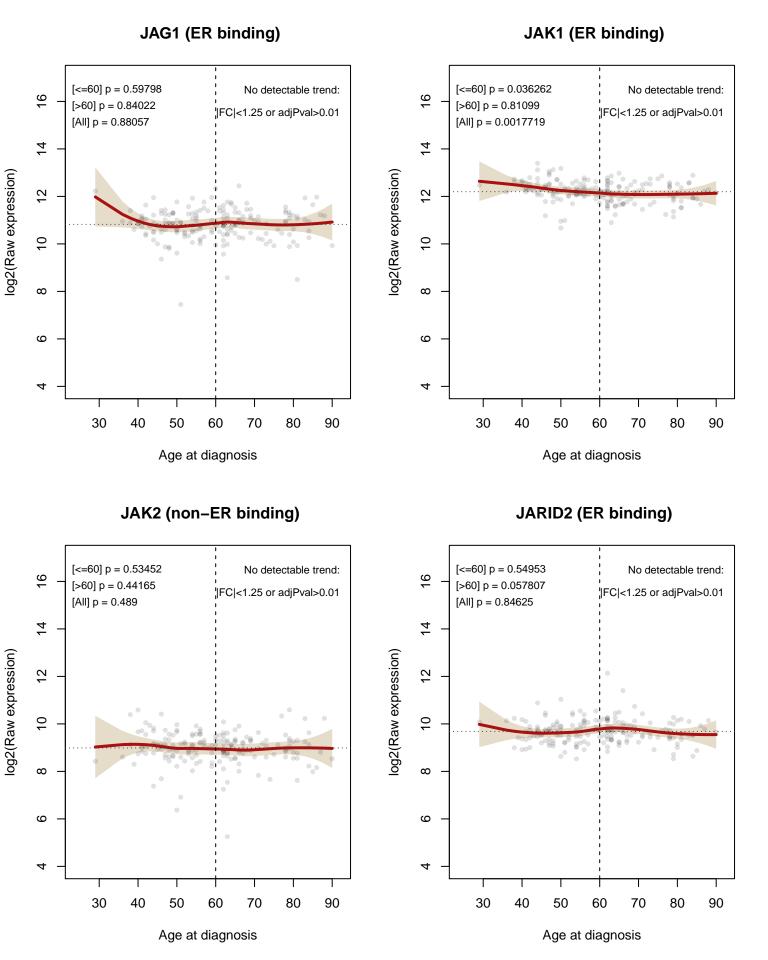


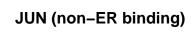
IL6 (non-ER binding)

INPP4B (non-ER binding)

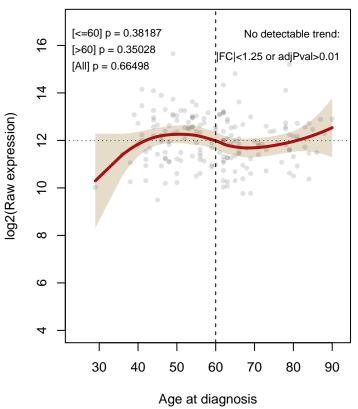


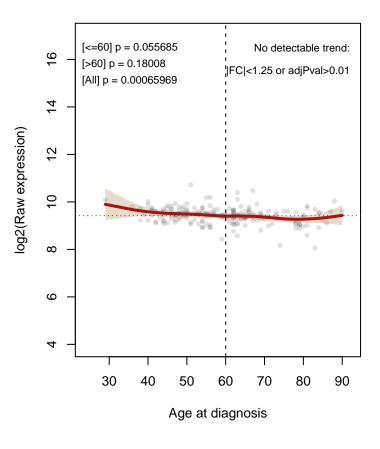






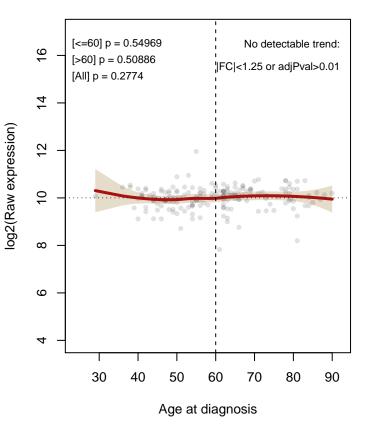
KDM2B (non-ER binding)

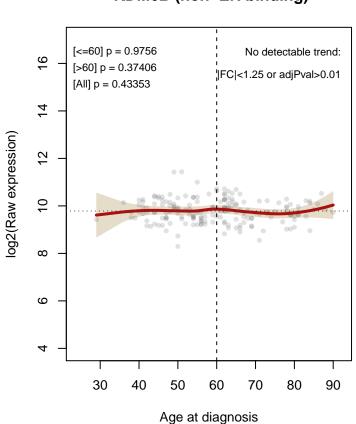




KDM6A (non-ER binding)

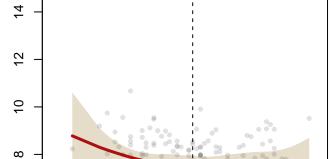
KDM6B (non-ER binding)





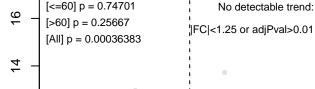




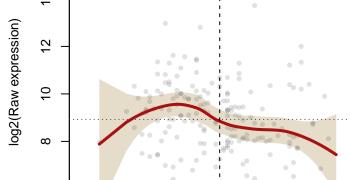


log2(Raw expression)

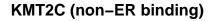
Age at diagnosis

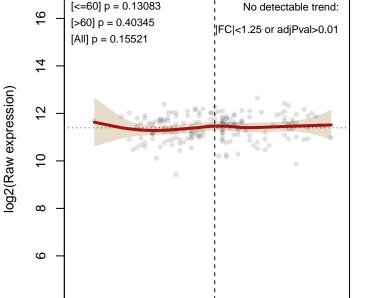


KIT (non-ER binding)



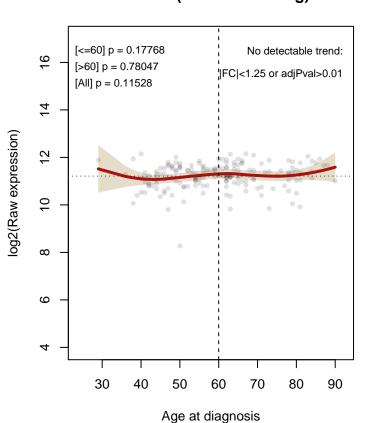
Age at diagnosis

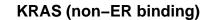




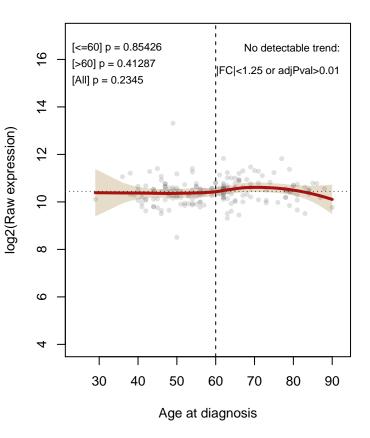
KMT2D (non-ER binding)

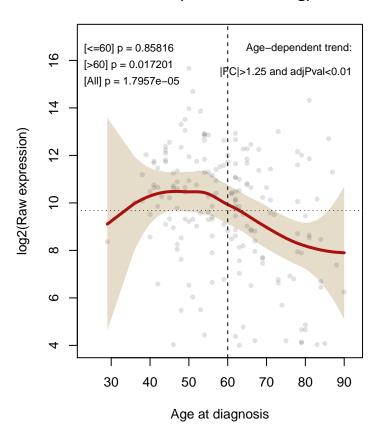
Age at diagnosis





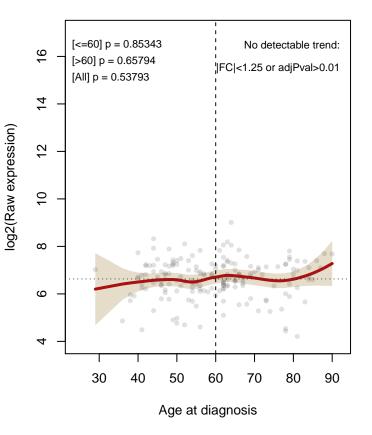
KRT5 (non-ER binding)

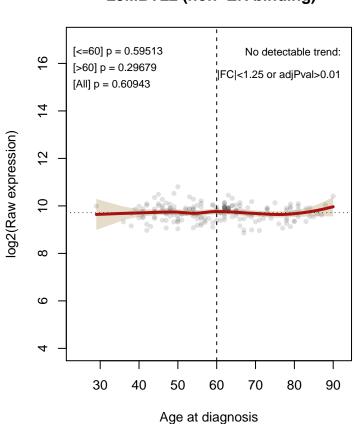




L3MBTL1 (non-ER binding)

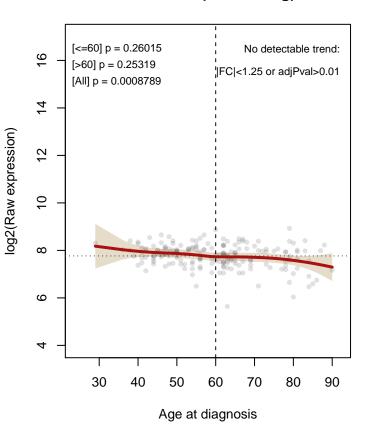
L3MBTL2 (non-ER binding)

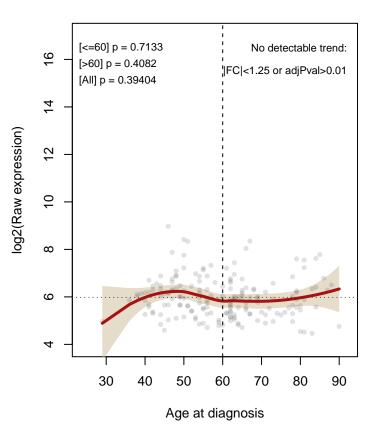




L3MBTL3 (ER binding)

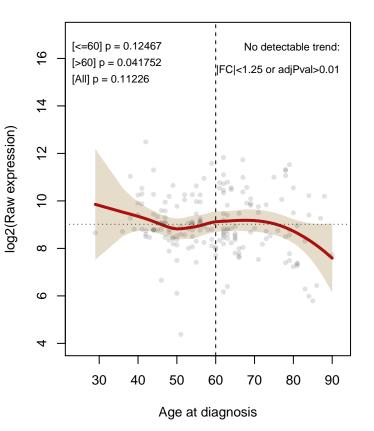
L3MBTL4 (non-ER binding)

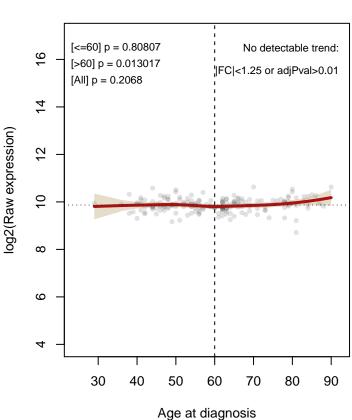




LEF1 (non-ER binding)

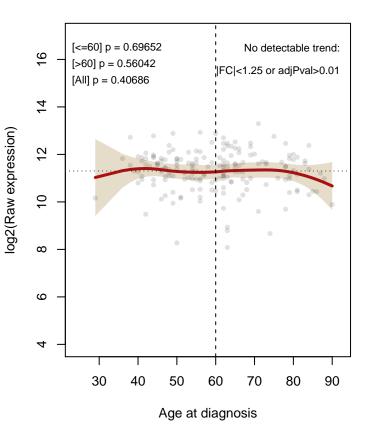
MAP2K1 (non-ER binding)

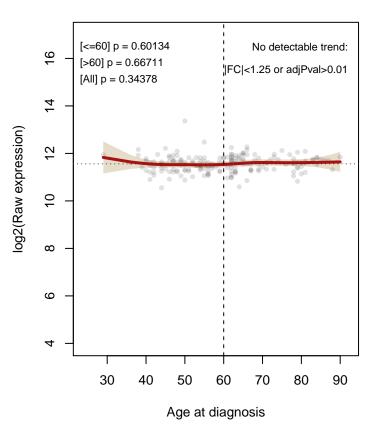






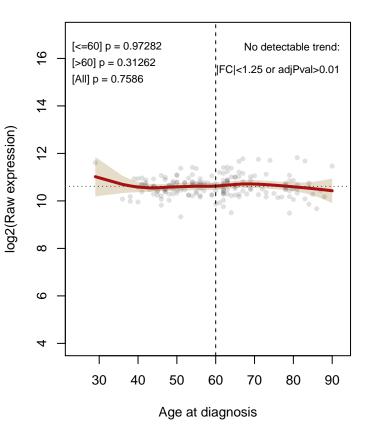
MAPK1 (non-ER binding)

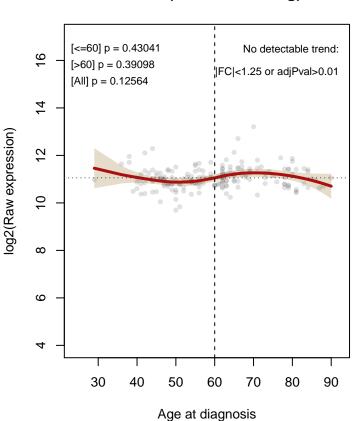




MAPK3 (non-ER binding)

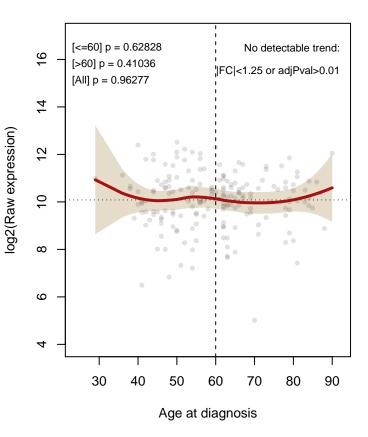
MDM2 (non-ER binding)

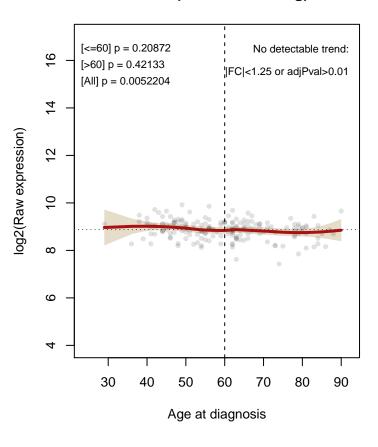






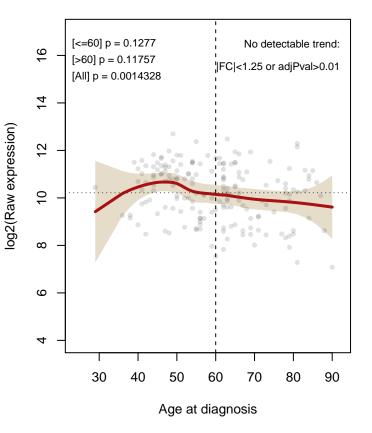
MTF2 (non-ER binding)

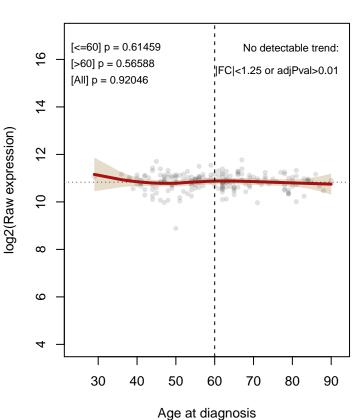




MYC (non-ER binding)

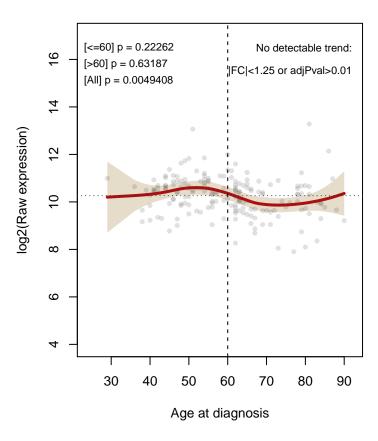
NCOA6 (non-ER binding)

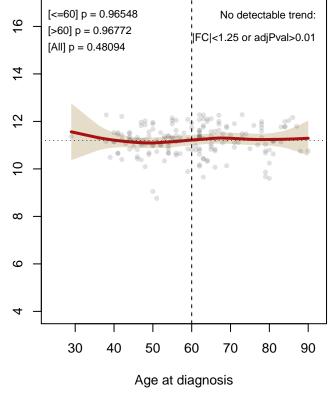




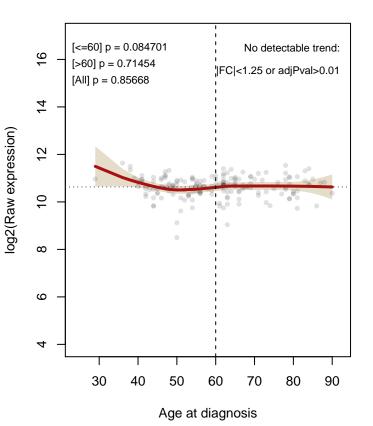
NCOR1 (non-ER binding) [<=60] p = 0.9654816 [>60] p = 0.96772 [All] p = 0.480944 log2(Raw expression)

NES (non-ER binding)

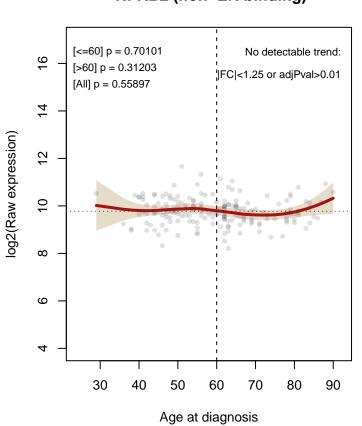




NFKB1 (non-ER binding)

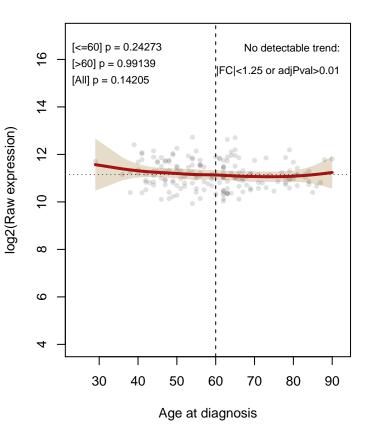


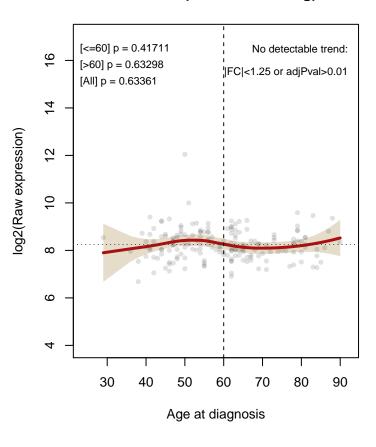
NFKB2 (non-ER binding)





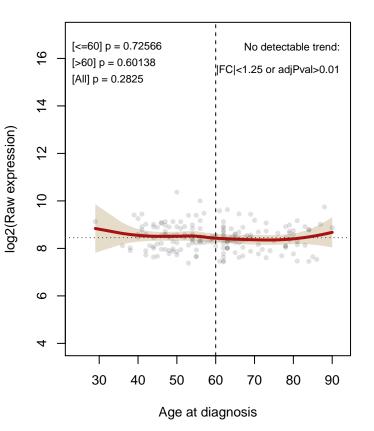
NFKBIB (non-ER binding)

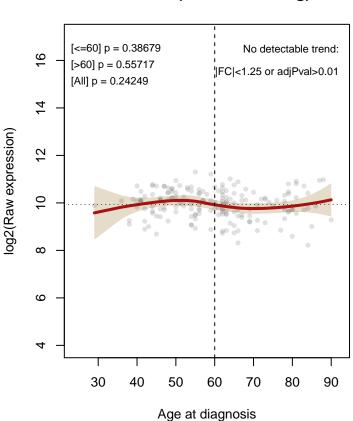




NFKBIE (non-ER binding)

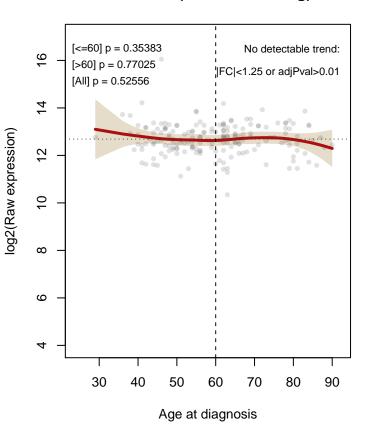
NOTCH1 (non-ER binding)

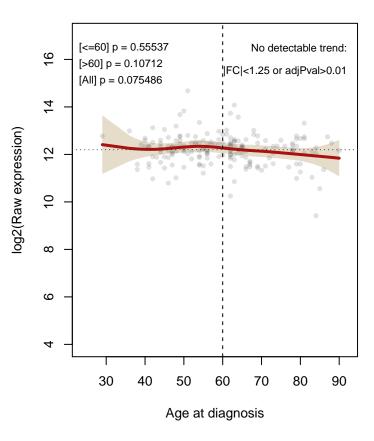




NOTCH2 (non-ER binding)

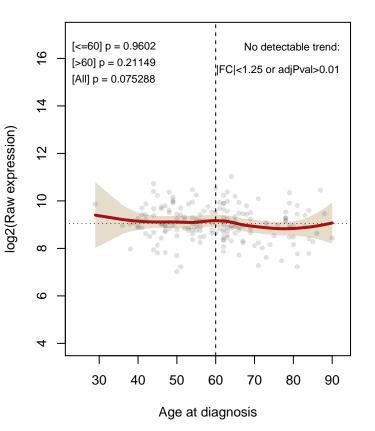
NOTCH3 (non-ER binding)

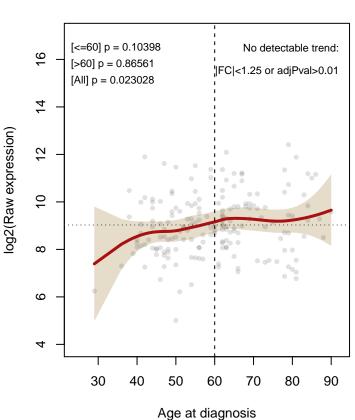




NOTCH4 (non-ER binding)

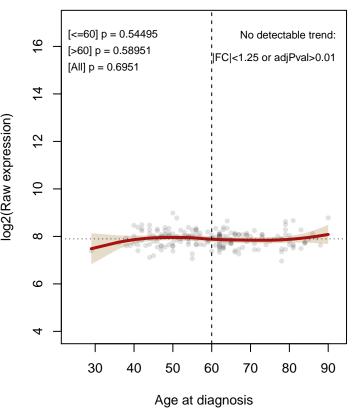
NR4A2 (non-ER binding)





NRAS (non-ER binding) [<=60] p = 0.031704No detectable trend: 16 16 [>60] p = 0.61163 FC|<1.25 or adjPval>0.01 [All] p = 0.005914 4 log2(Raw expression) log2(Raw expression) 12 10 ω ω 9

PCGF1 (non-ER binding)



PCGF2 (non-ER binding)

Age at diagnosis

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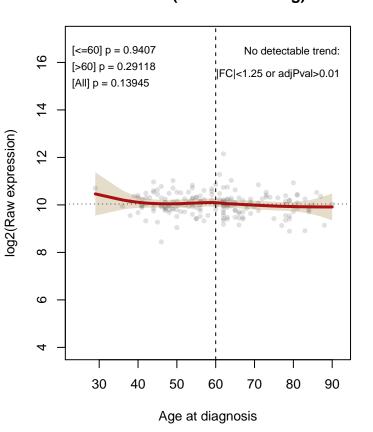
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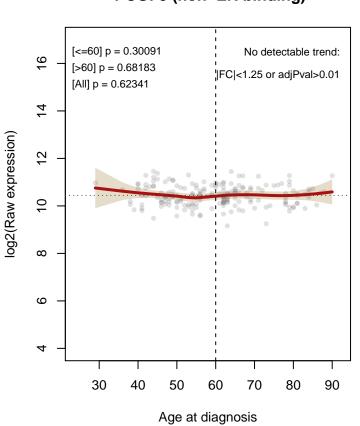
30

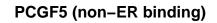
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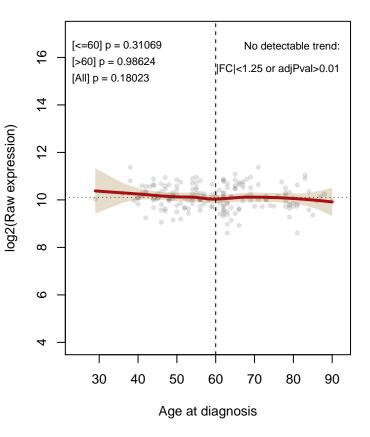


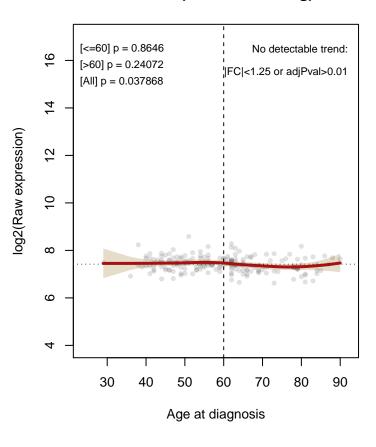
PCGF3 (non-ER binding)





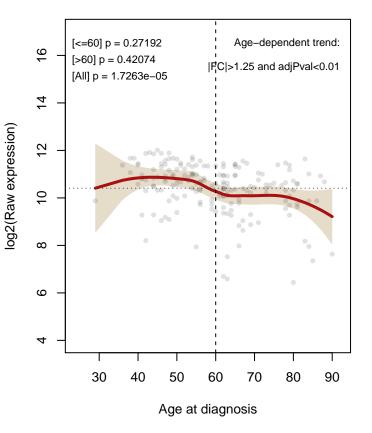
PCGF6 (non-ER binding)

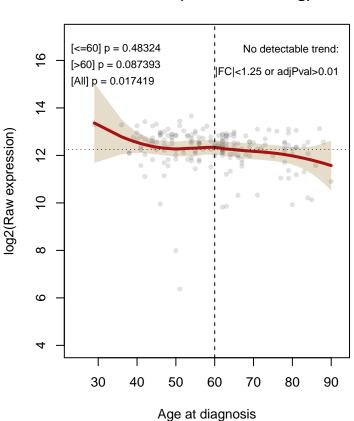




PDGFRA (non-ER binding)

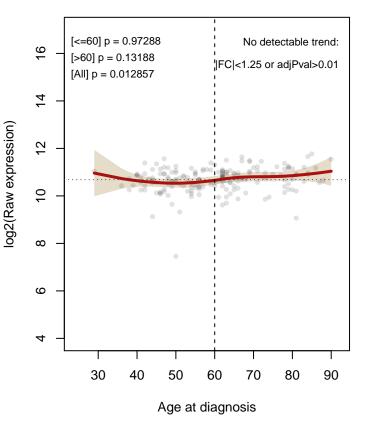
PDGFRB (non-ER binding)

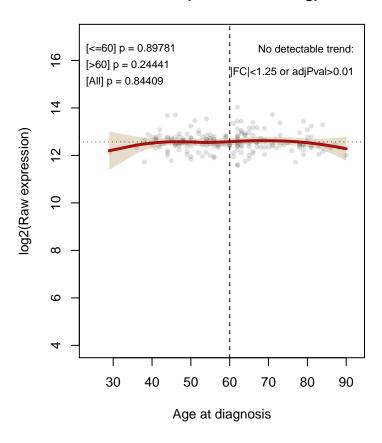






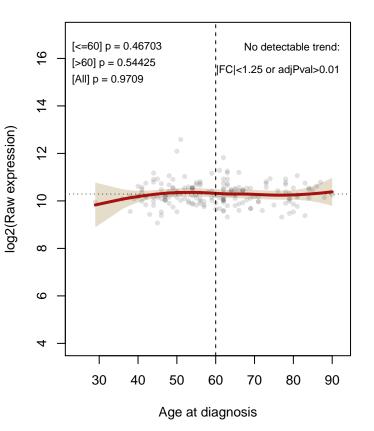
PEBP1 (non-ER binding)

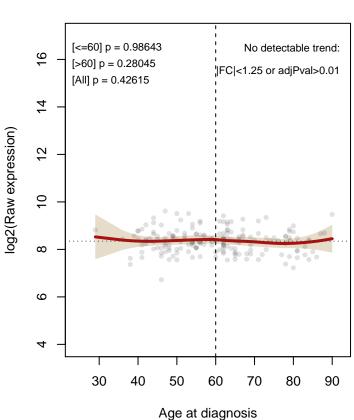


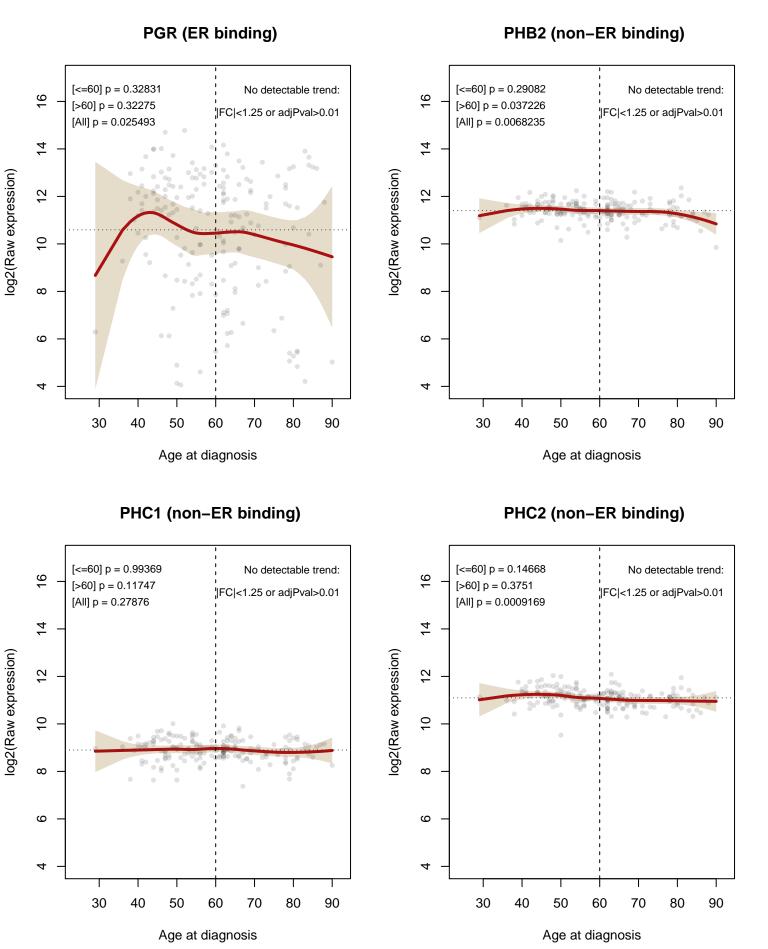


PELP1 (non-ER binding)

PGP (non-ER binding)







PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.72899No detectable trend: [<=60] p = 0.029308 No detectable trend: 16 16 [>60] p = 0.3991 [>60] p = 0.83395 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.088828[All] p = 0.33194 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis PHF19 (non-ER binding) PIK3CA (non-ER binding) [<=60] p = 0.83294No detectable trend: [<=60] p = 0.58663No detectable trend: 16 16 [>60] p = 0.65548[>60] p = 0.20603 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.021494[All] p = 0.822394 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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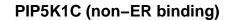
60

Age at diagnosis

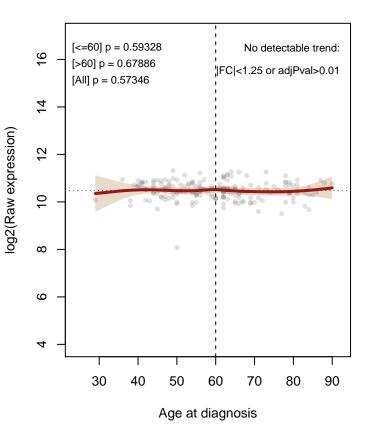
70

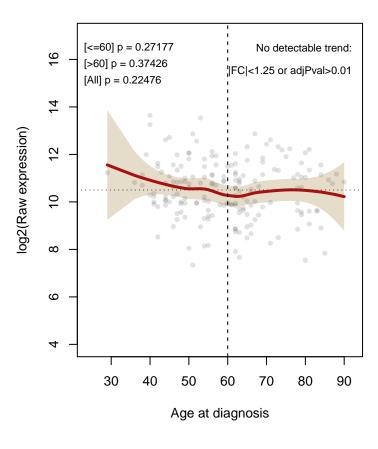
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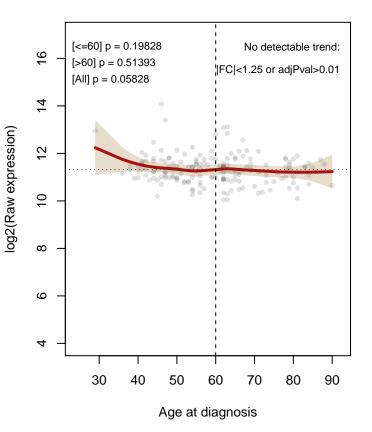
PLAU (non-ER binding)

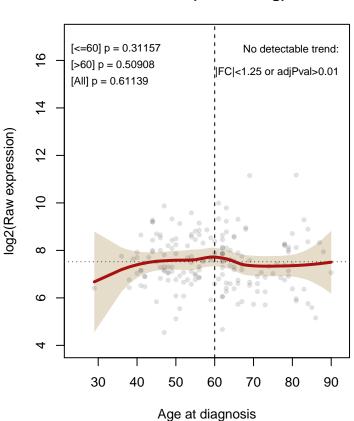




PODXL (non-ER binding)

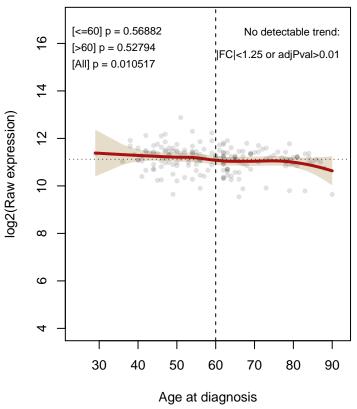
PPARG (ER binding)

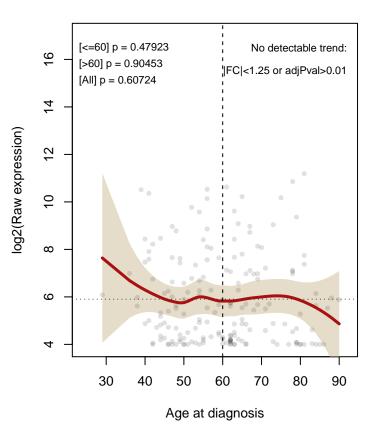






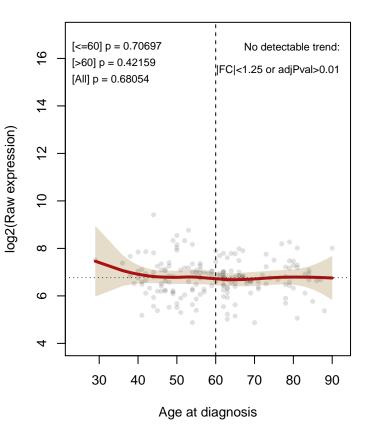
PYDC1 (non-ER binding)

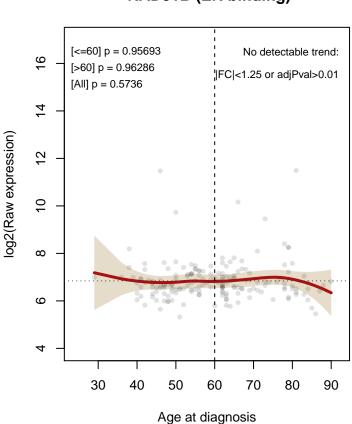




RAD51 (non-ER binding)

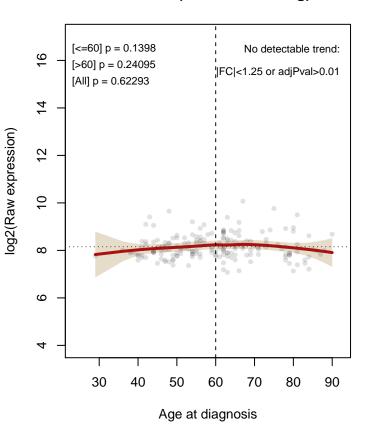
RAD51B (ER binding)

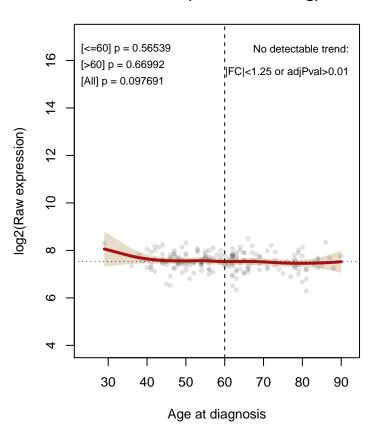




RAD51C (non-ER binding)

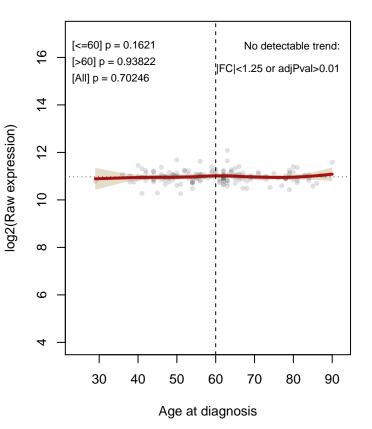
RAD51D (non-ER binding)

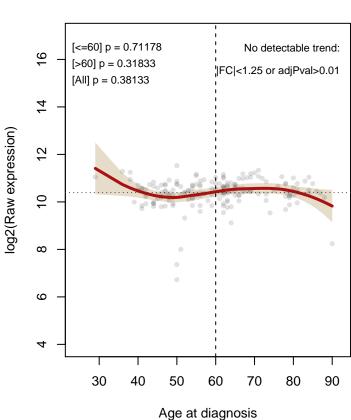




RAF1 (non-ER binding)

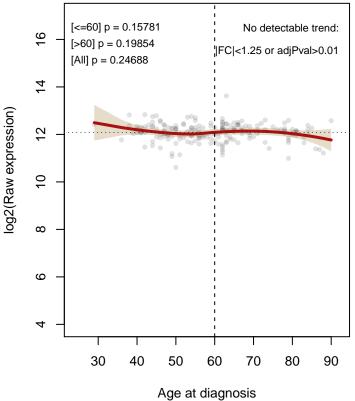
RB1 (non-ER binding)

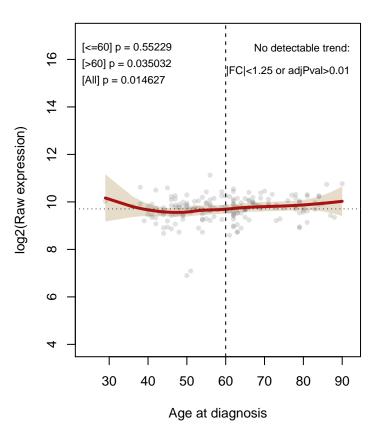






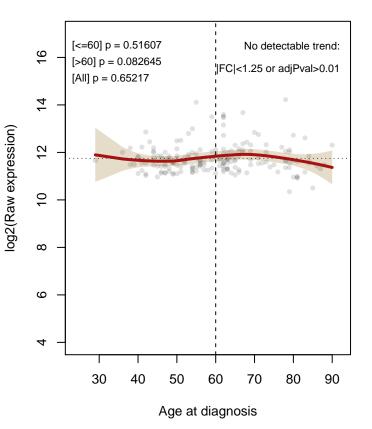
RBBP5 (non-ER binding)

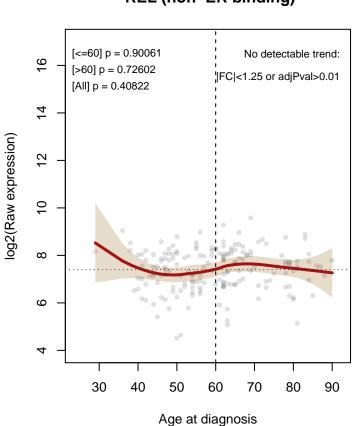


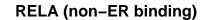


RBBP7 (non-ER binding)

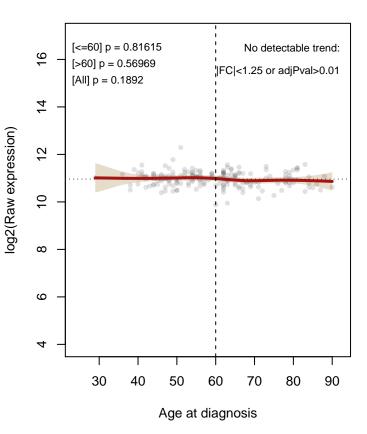
REL (non-ER binding)

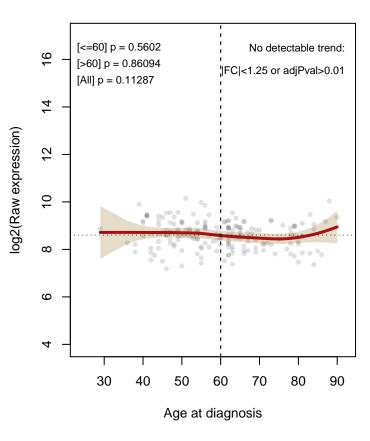






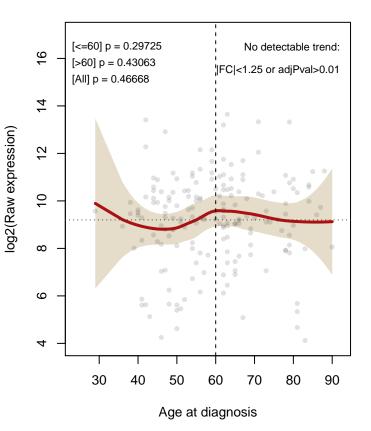
RELB (non-ER binding)

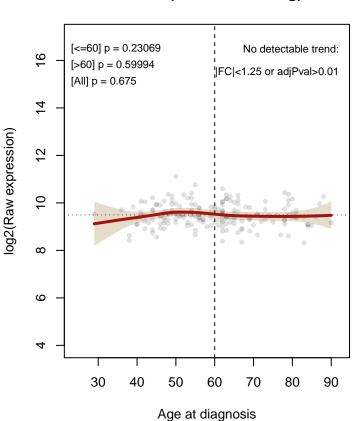


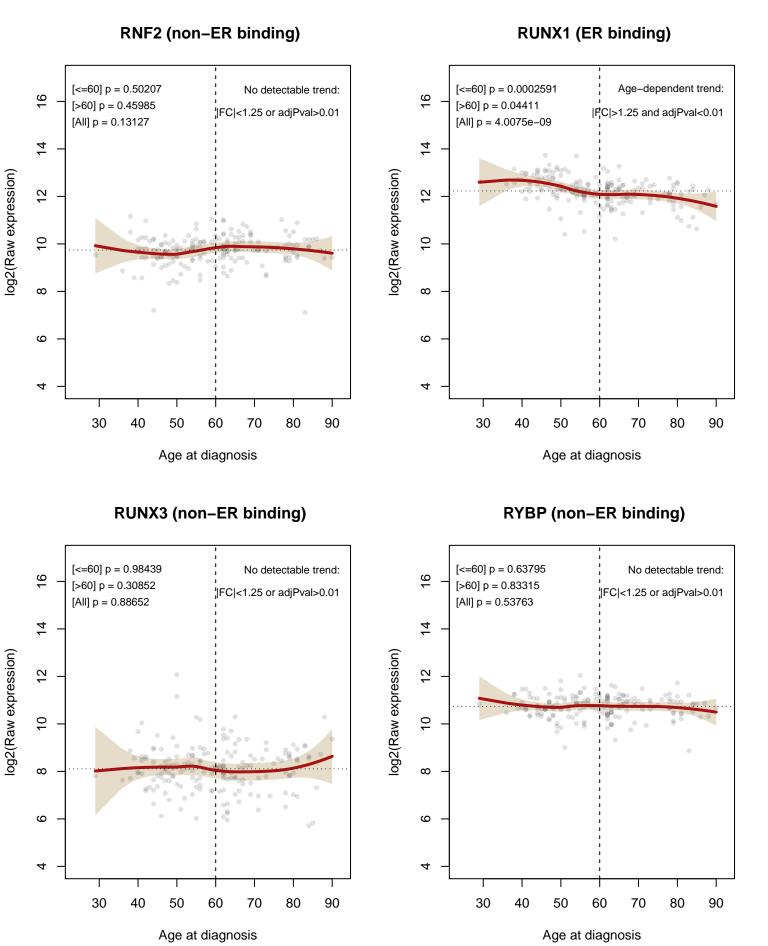


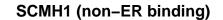
RET (ER binding)

RING1 (non-ER binding)

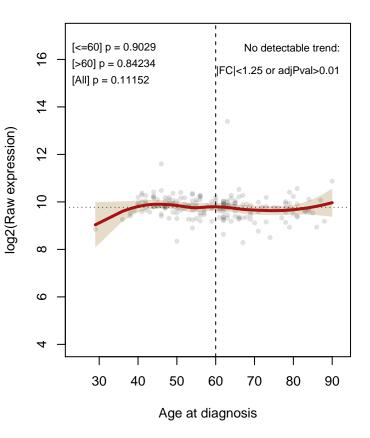


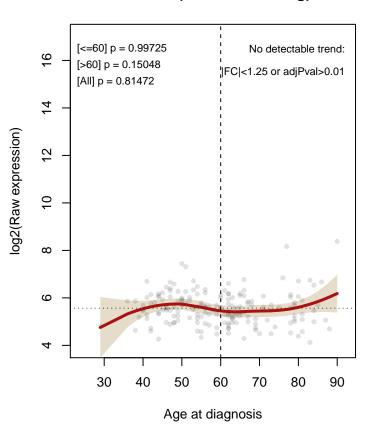






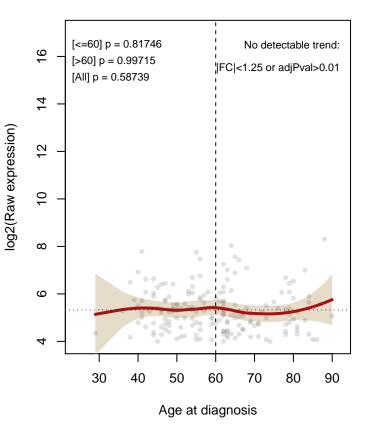
SCML2 (non-ER binding)

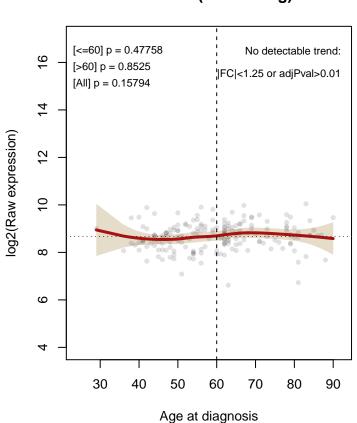




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.79158No detectable trend: [<=60] p = 0.29027No detectable trend: 16 16 [>60] p = 0.025898 [>60] p = 0.27223 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.22042[AII] p = 0.00623894 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 SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.20007No detectable trend: [<=60] p = 0.47048No detectable trend: 16 16 [>60] p = 0.17351 [>60] p = 0.65493 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.4747[All] p = 0.067494 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

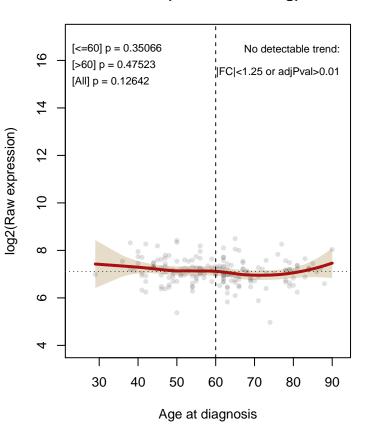
70

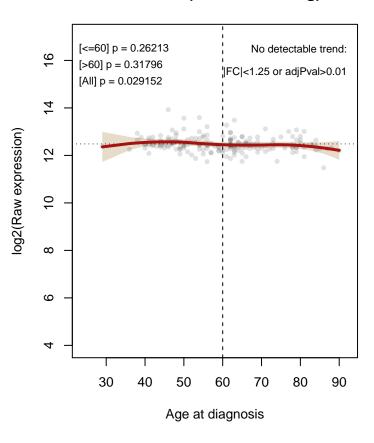
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SKP2 (non-ER binding)

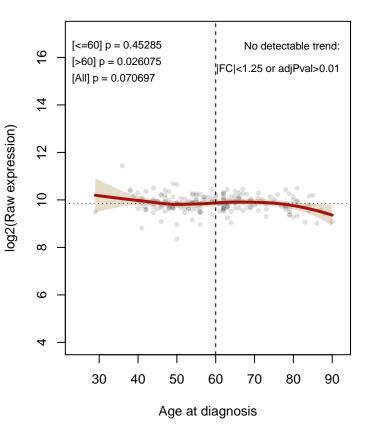
SLC25A3 (non-ER binding)

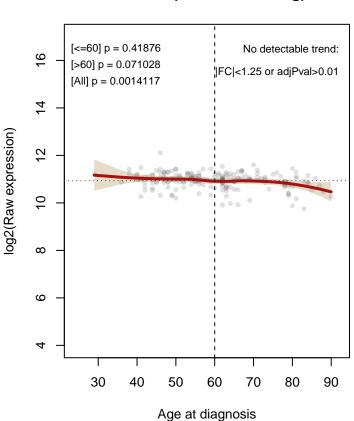




SMAD1 (non-ER binding)

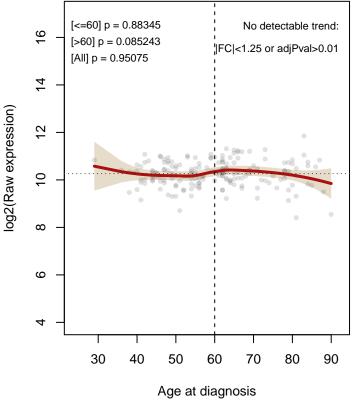
SMAD2 (non-ER binding)

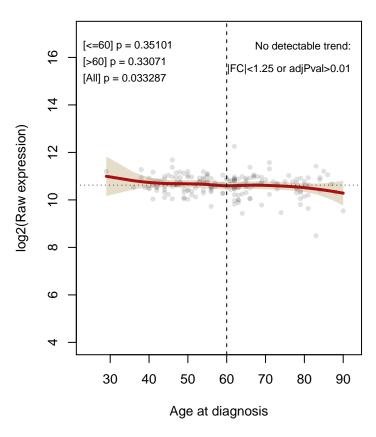




SMAD3 (ER binding)

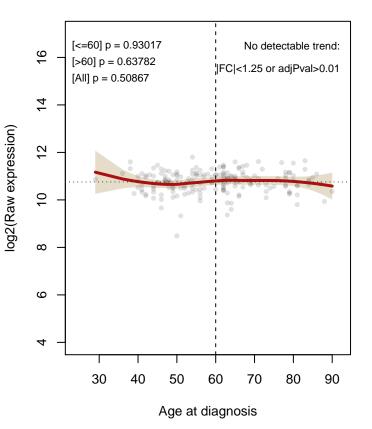
SMAD4 (non-ER binding)

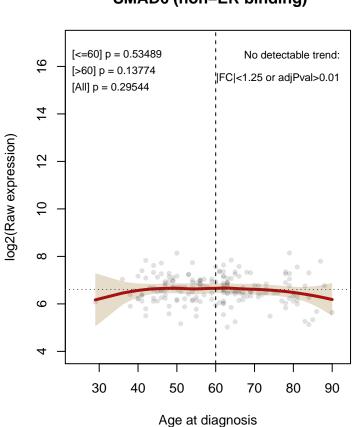




SMAD5 (non-ER binding)

SMAD6 (non-ER binding)





SMAD7 (non-ER binding) SMAD9 (non-ER binding) [<=60] p = 0.4427No detectable trend: [<=60] p = 0.33982No detectable trend: 16 16 [>60] p = 0.084732 [>60] p = 0.090401 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.010276[AII] p = 0.00773564 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 SOS1 (non-ER binding) SOS2 (non-ER binding) [<=60] p = 0.85125No detectable trend: [<=60] p = 0.44266No detectable trend: 16 16 [>60] p = 0.39207[>60] p = 0.8162 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.43642[All] p = 0.773424 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞

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Age at diagnosis

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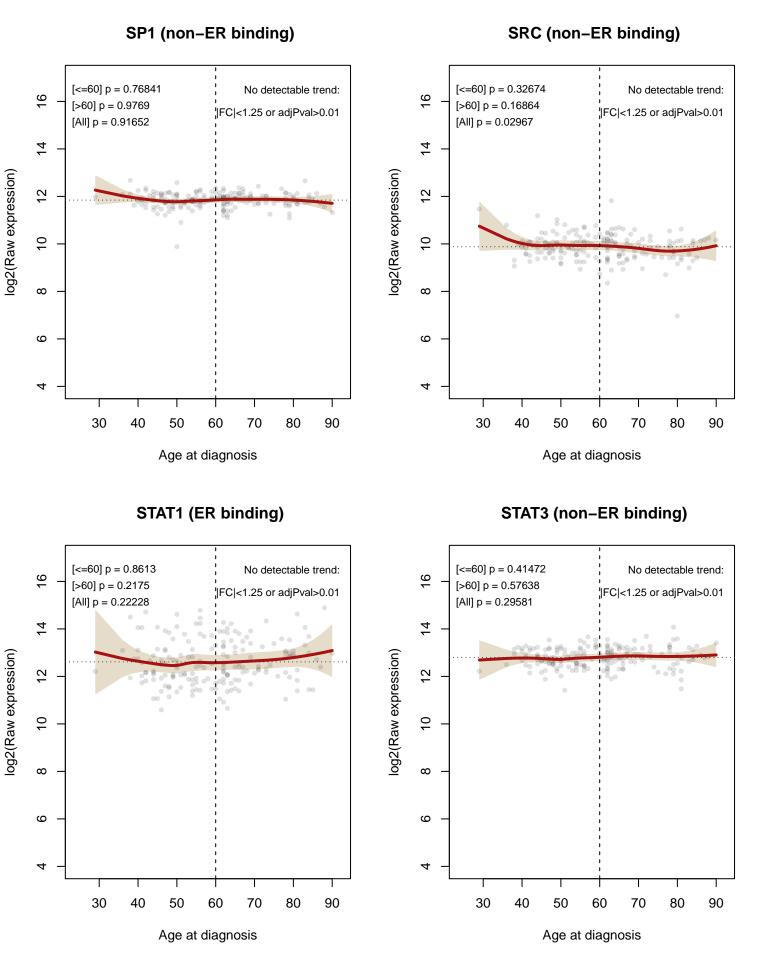
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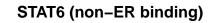
Age at diagnosis

70

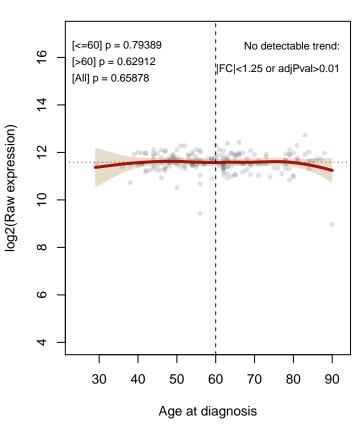
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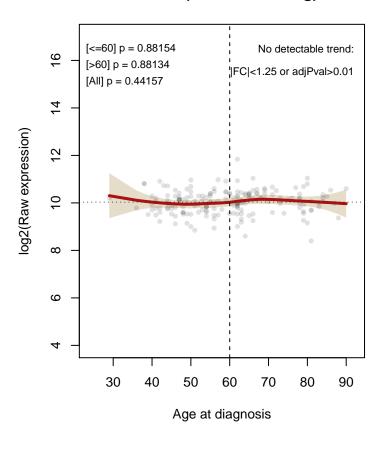
90





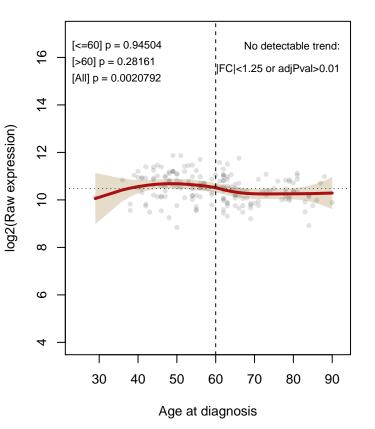
SUZ12 (non-ER binding)

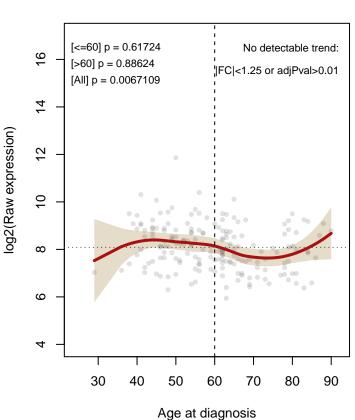




TCF3 (non-ER binding)

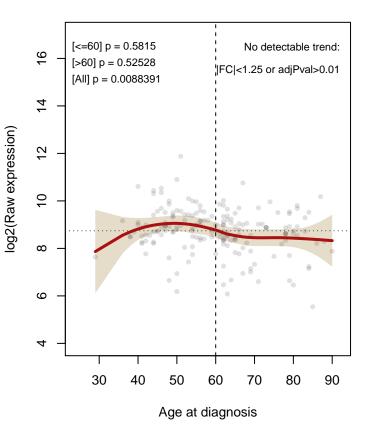
TCF7 (non-ER binding)

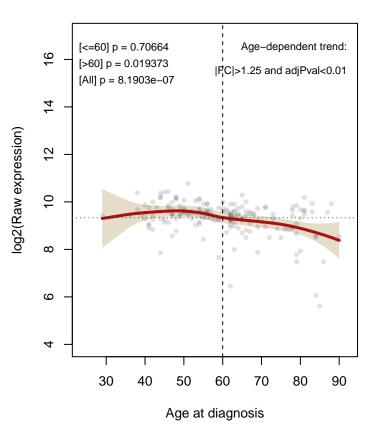






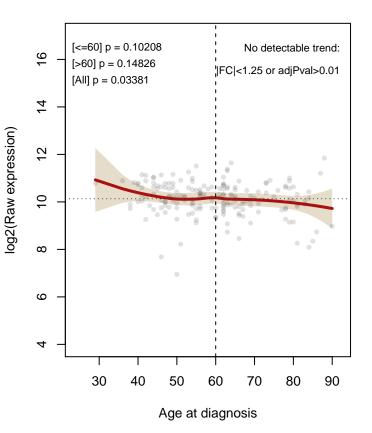
TCF7L2 (non-ER binding)

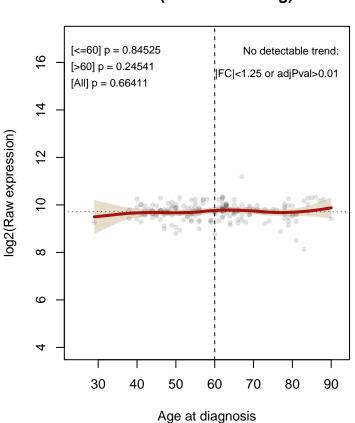


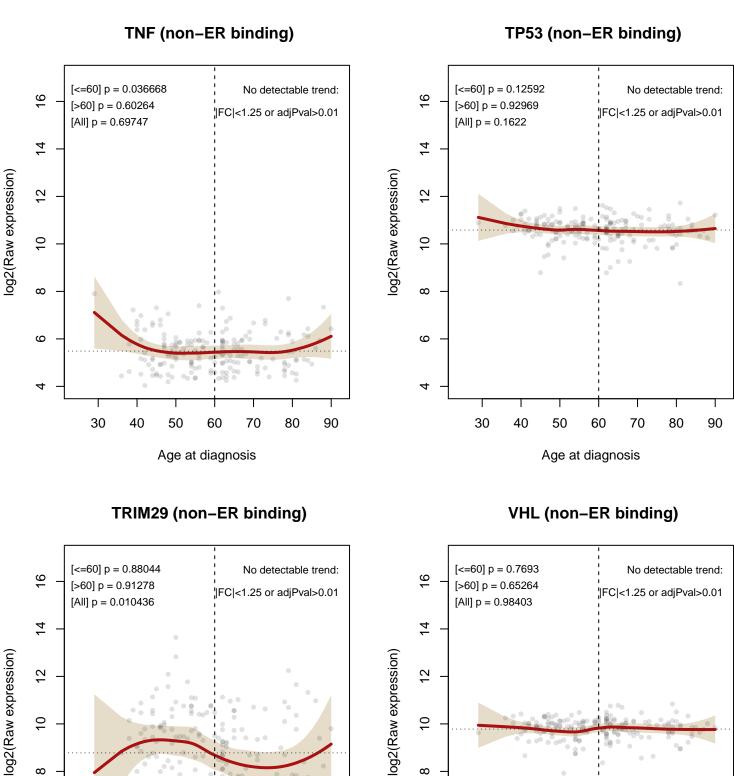


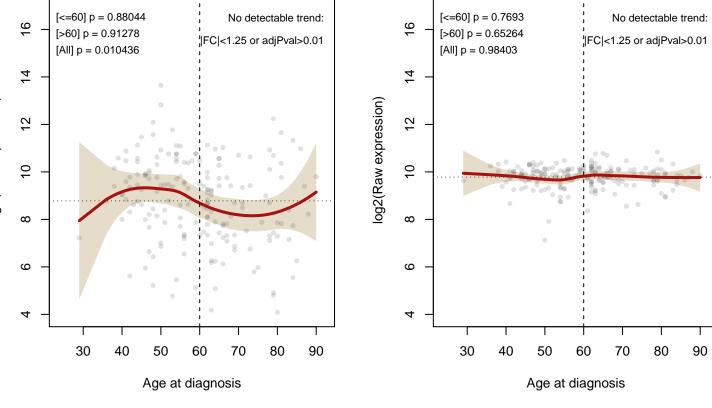
TGFB1 (non-ER binding)

TK2 (non-ER binding)











[<=60] p = 0.18256No detectable trend: 16 [>60] p = 0.70943 |FC|<1.25 or adjPval>0.01 [All] p = 0.030459

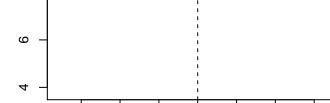


log2(Raw expression)

 ∞

30

40



50

Age at diagnosis

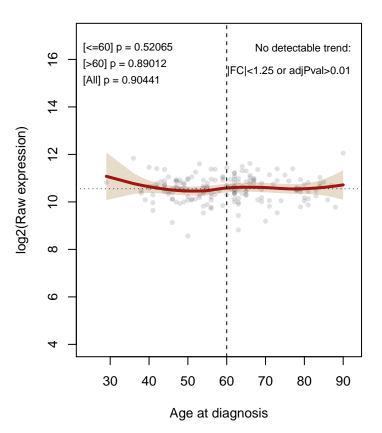
60

70

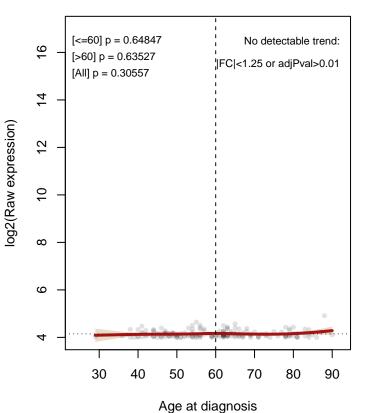
80

90

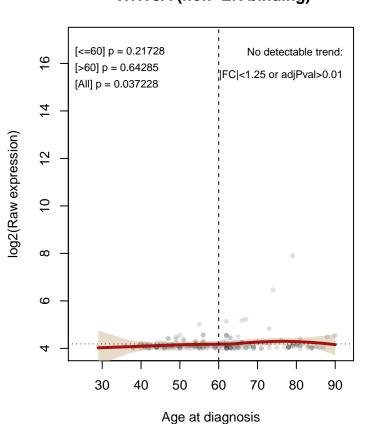
WHSC1 (non-ER binding)

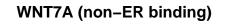


WNT1 (non-ER binding)

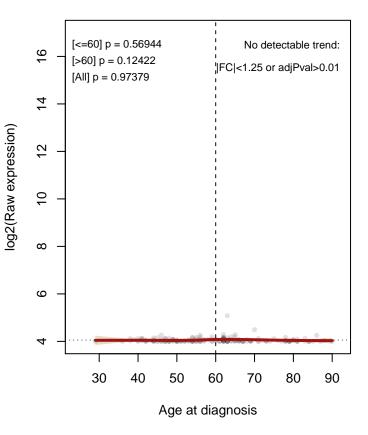


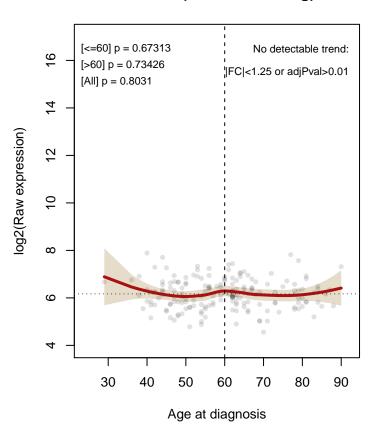
WNT3A (non-ER binding)





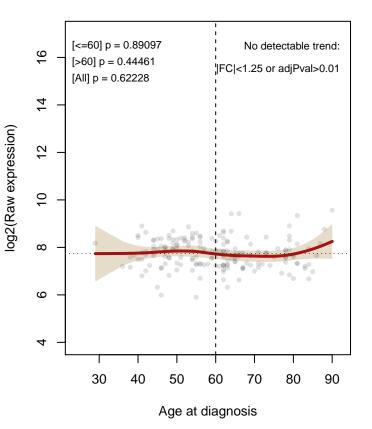
XRCC2 (non-ER binding)

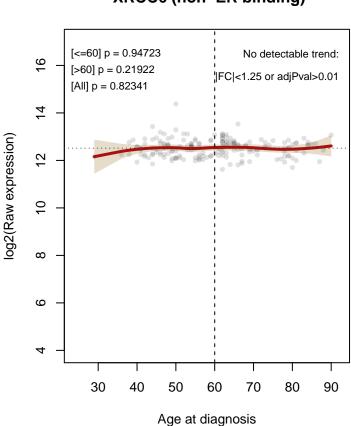




XRCC3 (non-ER binding)

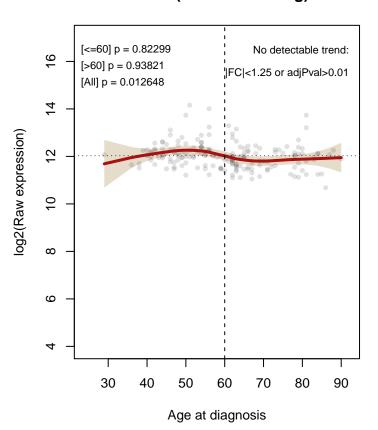
XRCC6 (non-ER binding)





YAF2 (non-ER binding)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

