

ARNT (ER binding) ASH2L (non-ER binding) [<=60] p = 0.37639No detectable trend: [<=60] p = 0.50179No detectable trend: 16 16 [>60] p = 0.093371 [>60] p = 0.30075 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.0044864[All] p = 0.993444 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 **ASXL1** (non-ER binding) ASXL2 (non-ER binding) [<=60] p = 0.9791 No detectable trend: [<=60] p = 0.73259No detectable trend: 16 16 [>60] p = 0.91817 [>60] p = 0.066307 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.31034[All] p = 0.172264 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

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.40667No detectable trend: [<=60] p = 0.5111No detectable trend: 16 16 [>60] p = 0.38385 [>60] p = 0.00047518 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.069447[AII] p = 0.0478054 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 = 0.61264No detectable trend: [<=60] p = 0.91077No detectable trend: 16 16 [>60] p = 0.00045735 [>60] p = 0.015557 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.022647[AII] p = 0.000727984 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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BCL2 (non-ER binding) [<=60] p = 0.0090815No detectable trend: 16 [>60] p = 0.89791 |FC|<2 or adjPval>0.01 [All] p = 0.107074 log2(Raw expression) 12 19

ω

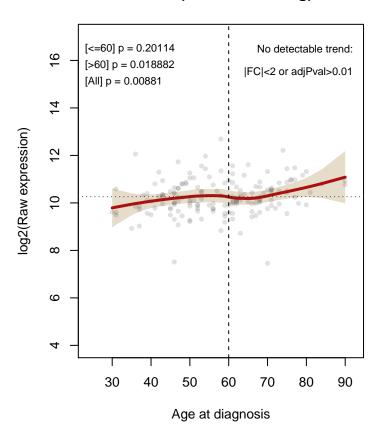
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BCL3 (non-ER binding)



BIRC5 (non-ER binding)

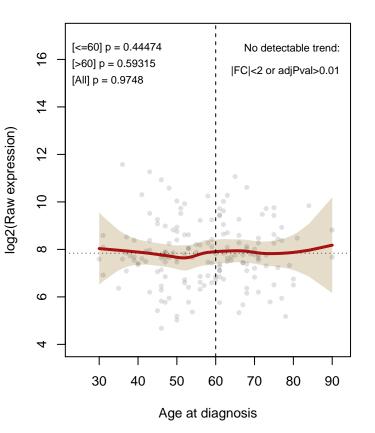
Age at diagnosis

60

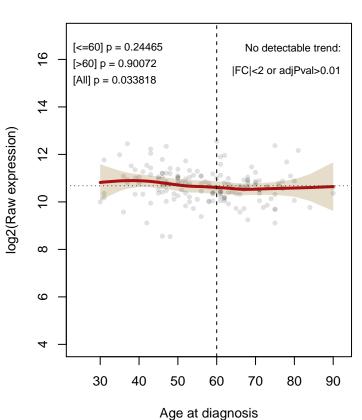
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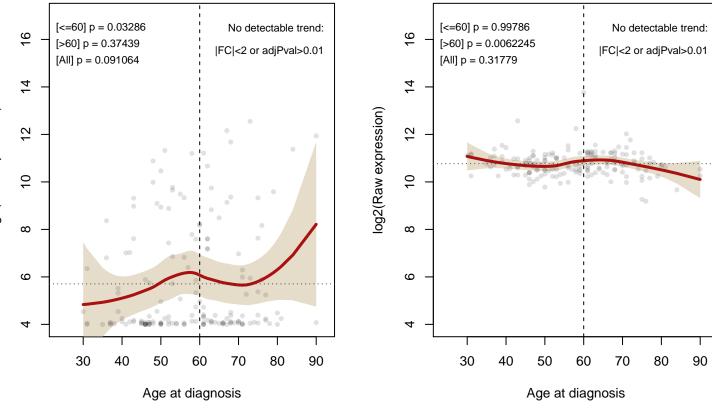
90



BMI1 (non-ER binding)

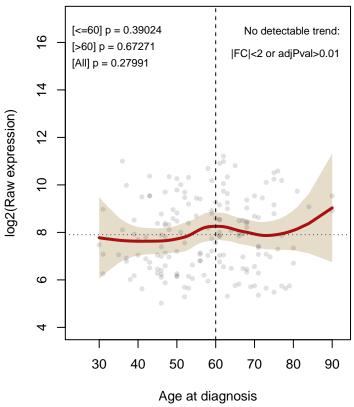


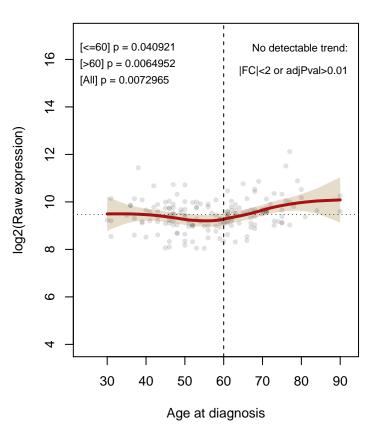
BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.97954No detectable trend: [<=60] p = 0.40367No detectable trend: 16 16 [>60] p = 0.3256 [>60] p = 0.23195 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.21115[All] p = 0.632764 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 50 70 80 90 30 40 50 60 70 80 90 40 60 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.03286No detectable trend: [<=60] p = 0.99786No detectable trend: 16 16 [>60] p = 0.37439 [>60] p = 0.0062245 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.091064[All] p = 0.317794 4 log2(Raw expression) 12 12 10 10





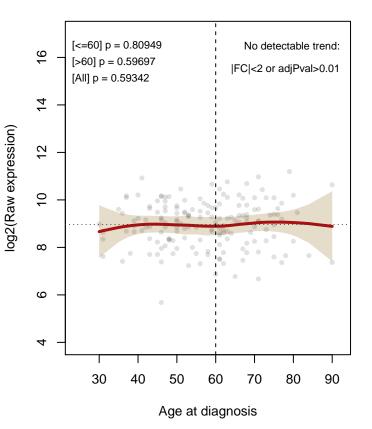
CBX4 (non-ER binding)

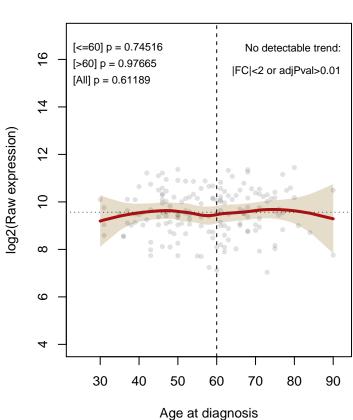


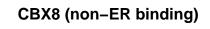


CBX6 (non-ER binding)

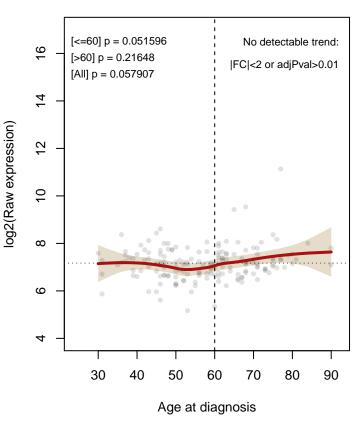
CBX7 (non-ER binding)

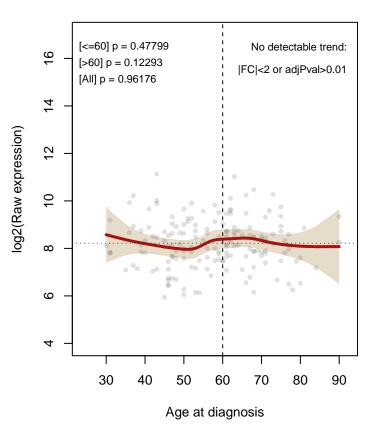






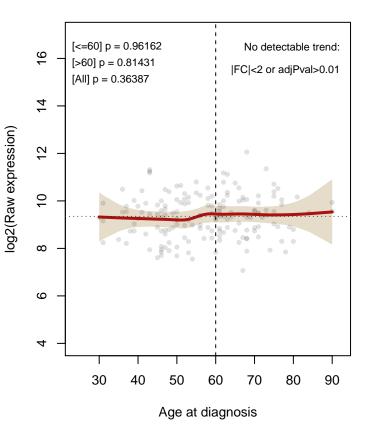
CCNA2 (non-ER binding)

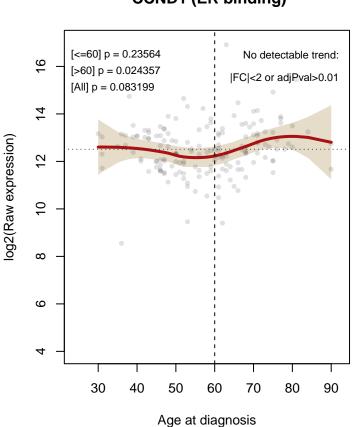




CCNB1 (non-ER binding)

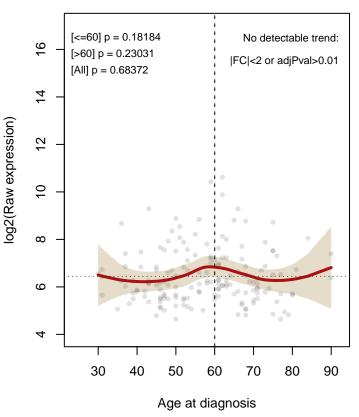
CCND1 (ER binding)

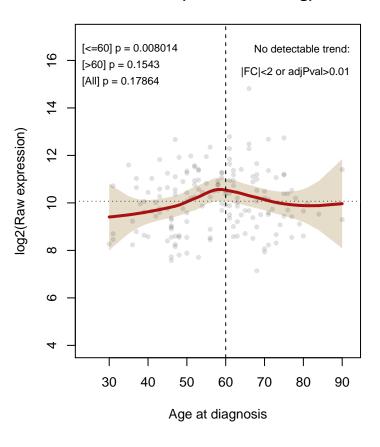






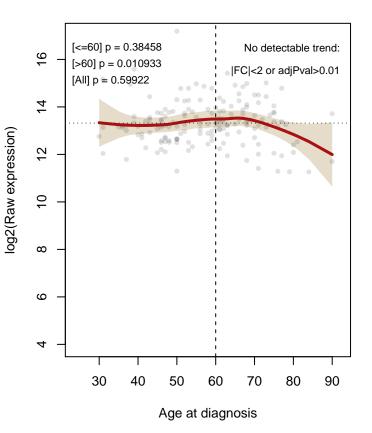
CD163 (non-ER binding)

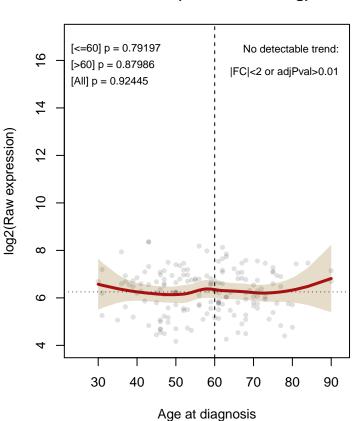


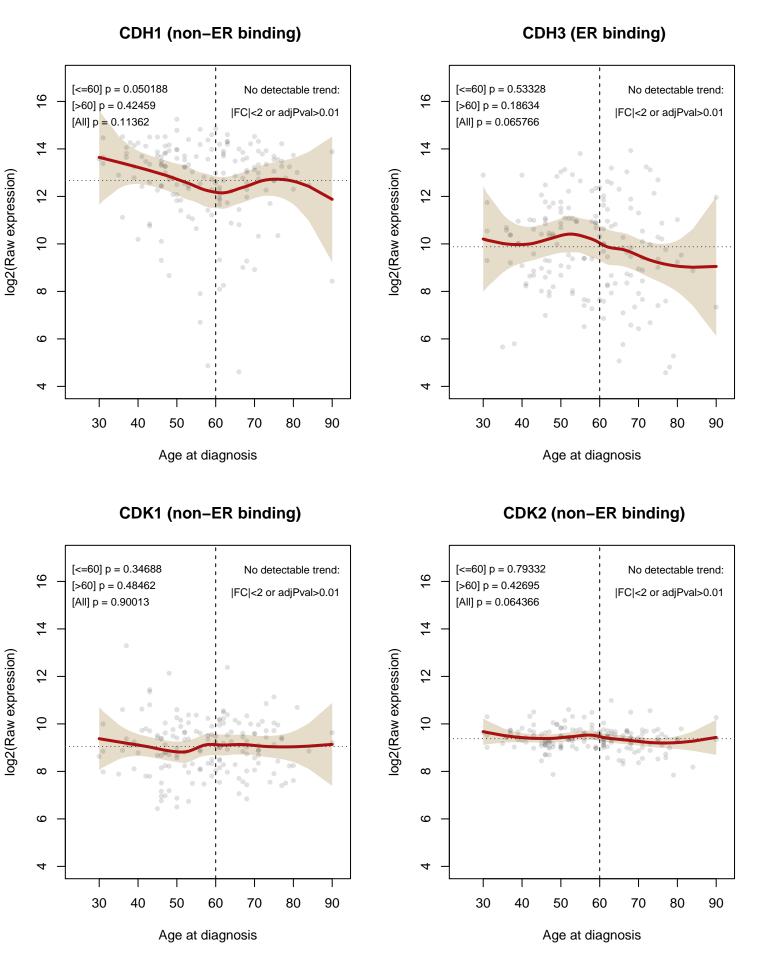


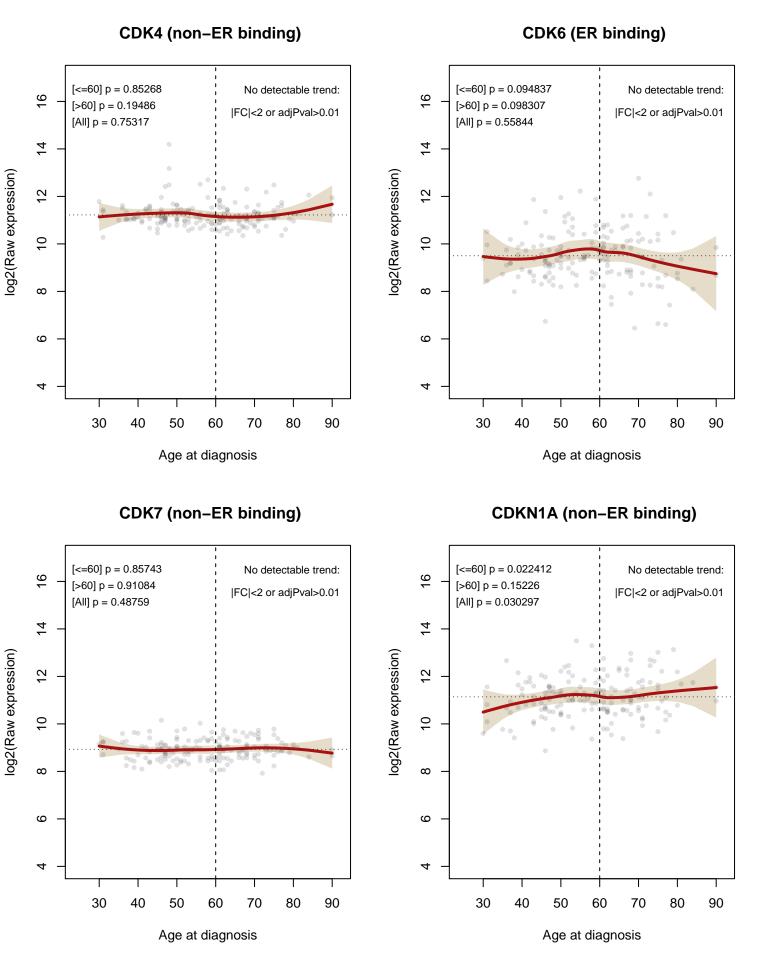
CD44 (non-ER binding)

CDC25C (non-ER binding)



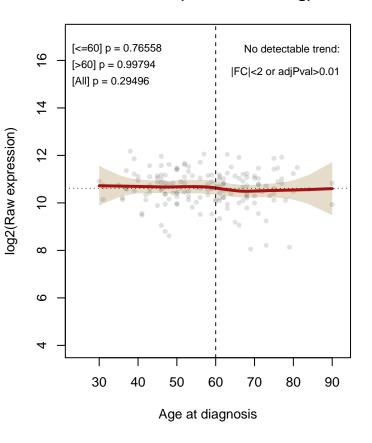


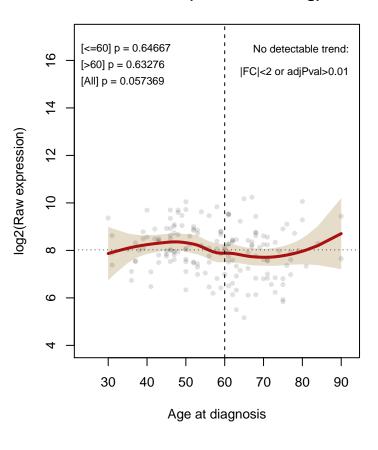




CDKN1B (non-ER binding)

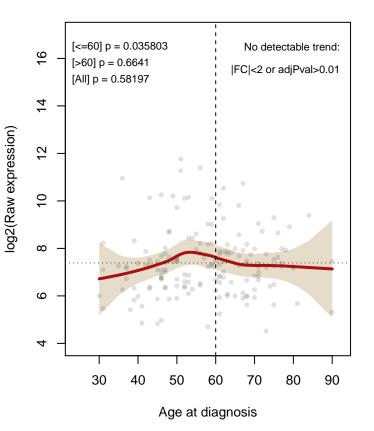
CDKN1C (non-ER binding)

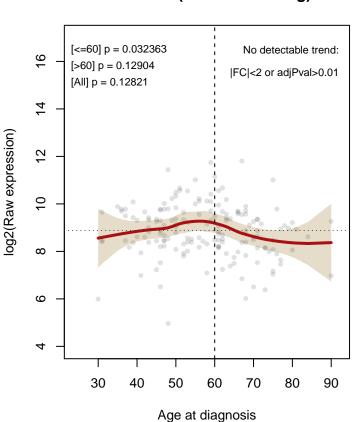




CDKN2A (non-ER binding)

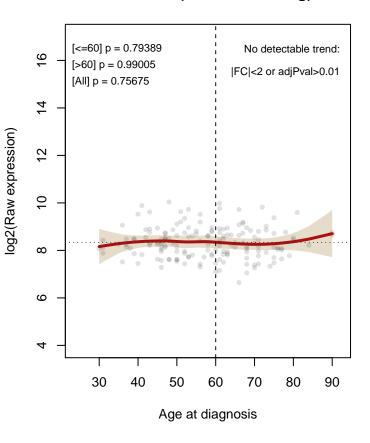
CDKN2B (non-ER binding)

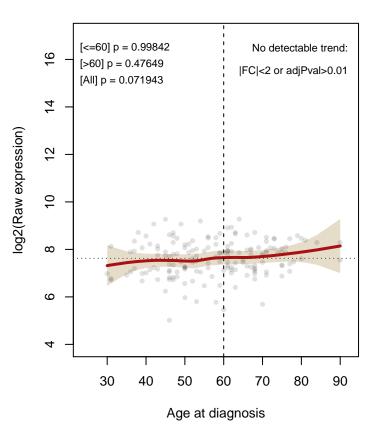




CDKN2C (non-ER binding)

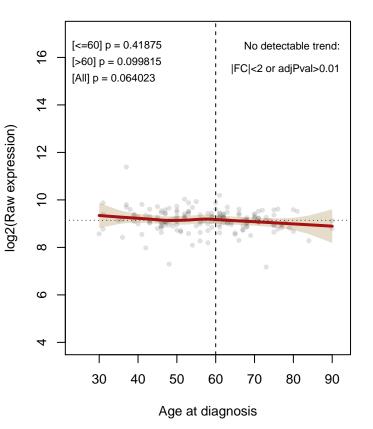
CDKN2D (non-ER binding)

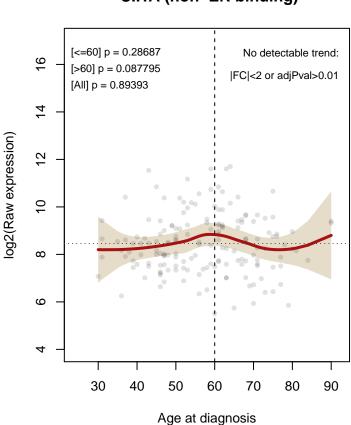




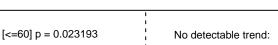
CHUK (non-ER binding)

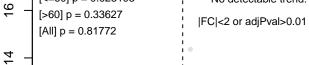
CIITA (non-ER binding)





CLDN3 (non-ER binding)





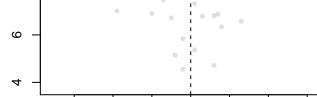


10 ω

log2(Raw expression)

log2(Raw expression)

12



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Age at diagnosis

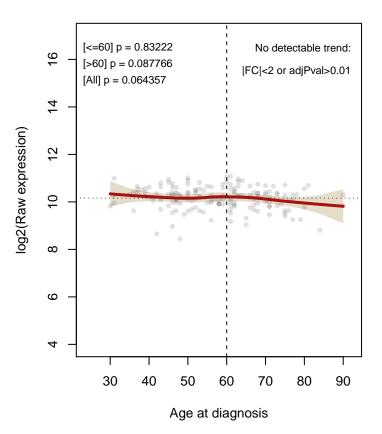
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CREB1 (non-ER binding)

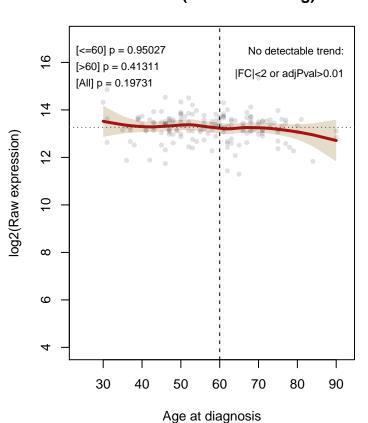


CRYAB (non-ER binding)

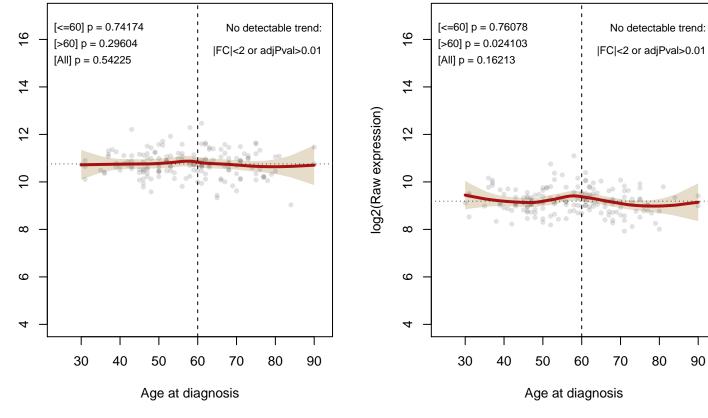
[<=60] p = 0.75311No detectable trend: 16 [>60] p = 0.33537 |FC|<2 or adjPval>0.01 [All] p = 0.743314 12 19 ω 9 30 40 50 70 80 90 60

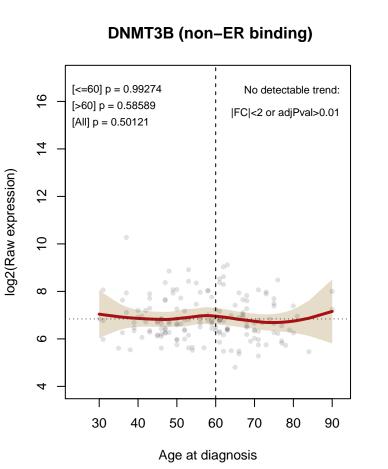
Age at diagnosis

CTNNB1 (non-ER binding)

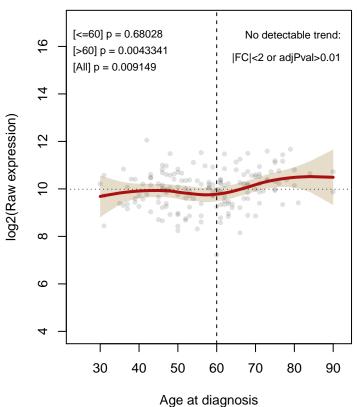


DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.14524No detectable trend: [<=60] p = 0.91061No detectable trend: 16 16 [>60] p = 0.32924 [>60] p = 0.14359 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.034483[All] p = 0.267024 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω 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 = 0.74174No detectable trend: [<=60] p = 0.7607816 16 [>60] p = 0.024103 [>60] p = 0.29604 |FC|<2 or adjPval>0.01 [All] p = 0.54225[All] p = 0.162134 4 log2(Raw expression) 12 12 10 10

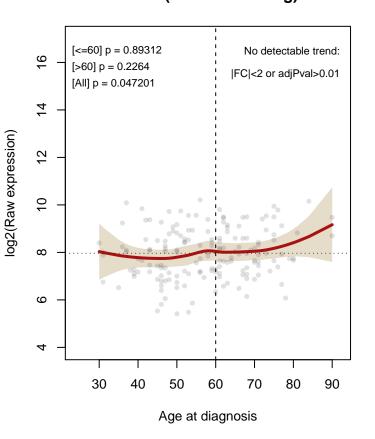




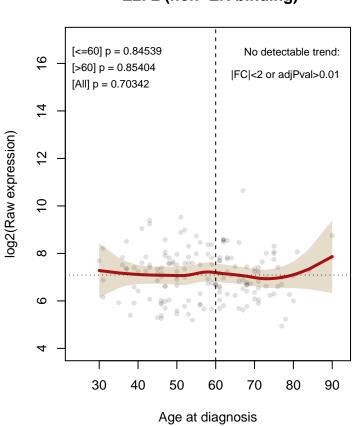
DVL1 (non-ER binding)

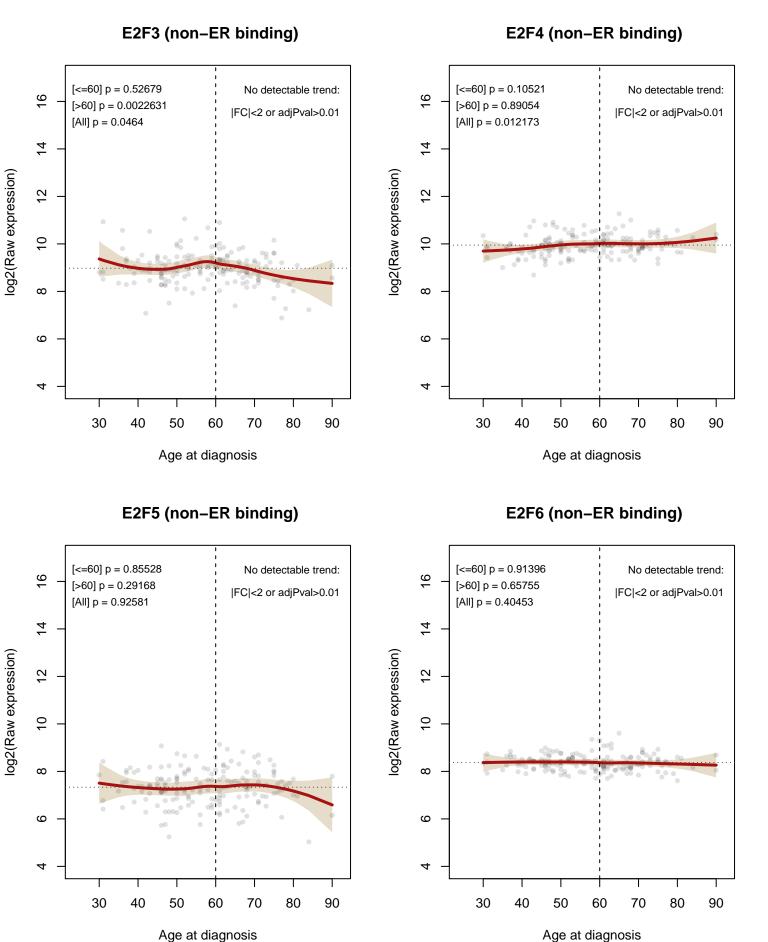


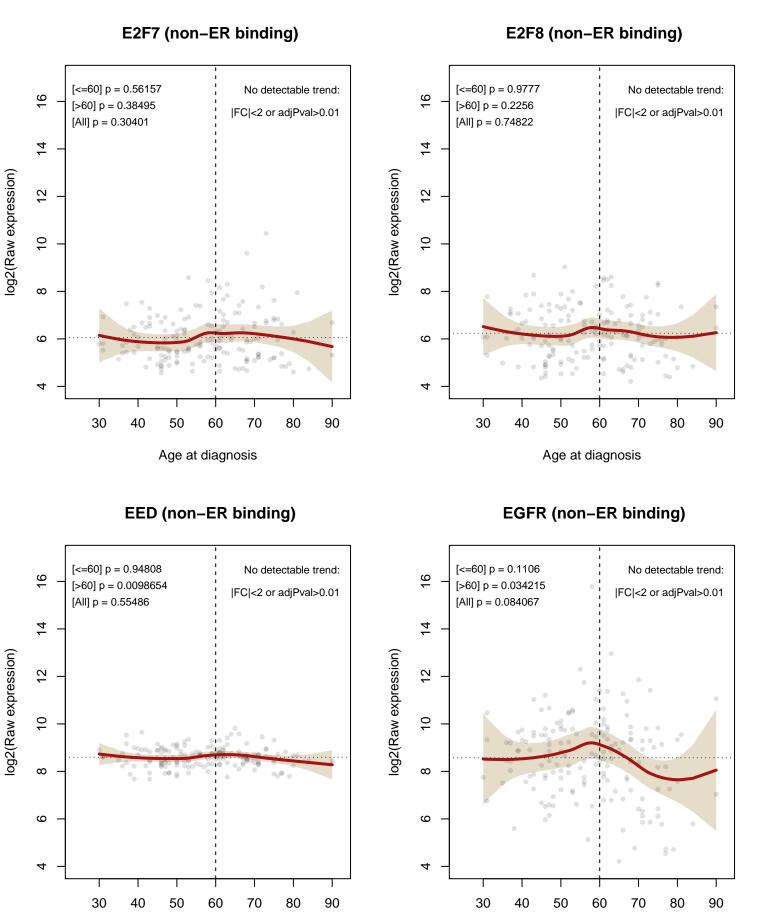
E2F1 (non-ER binding)



E2F2 (non-ER binding)





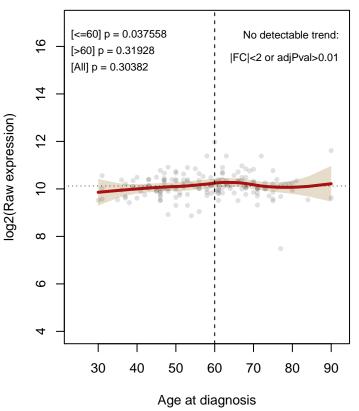


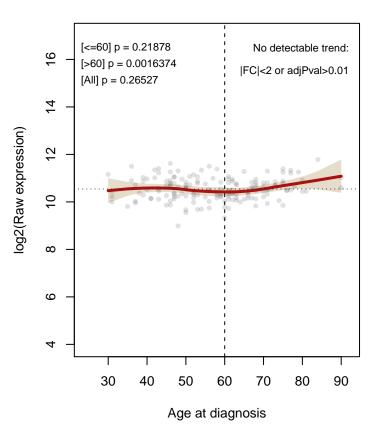
Age at diagnosis

Age at diagnosis



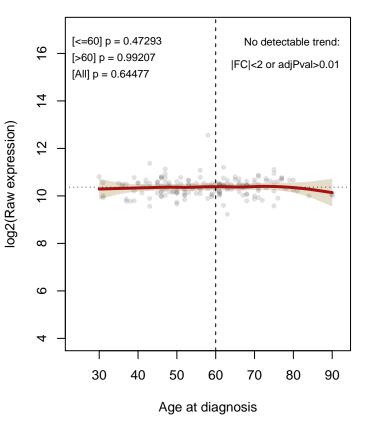
EHMT2 (non-ER binding)

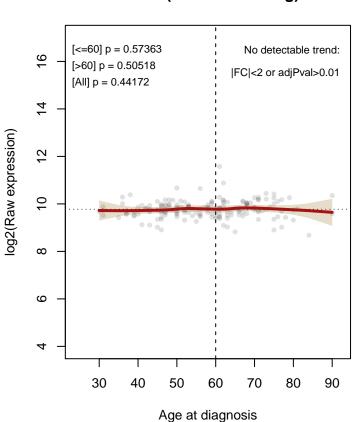


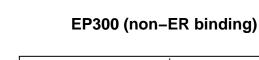


ELAC2 (non-ER binding)

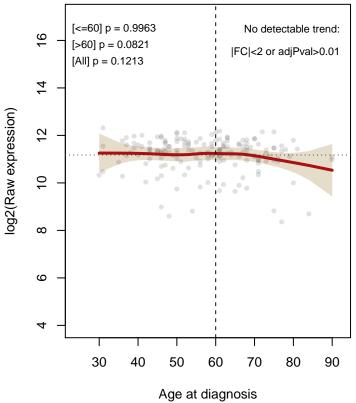
ELK1 (non-ER binding)

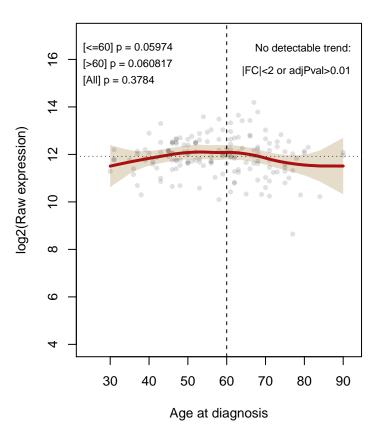






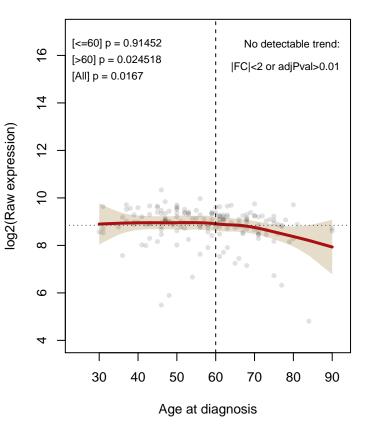
EPAS1 (non-ER binding)

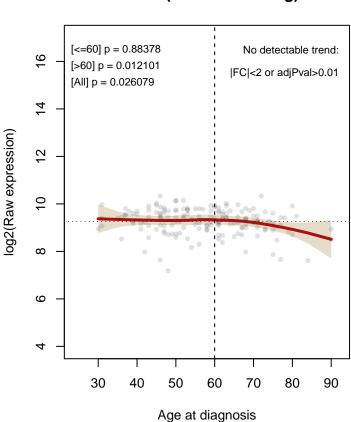




EPC1 (non-ER binding)

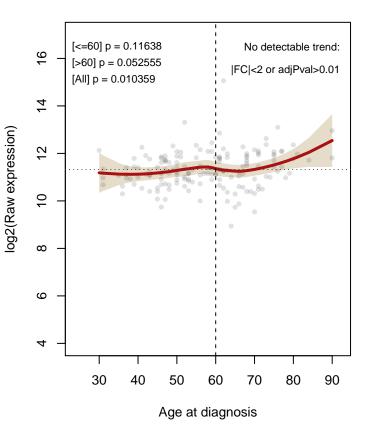
EPC2 (non-ER binding)

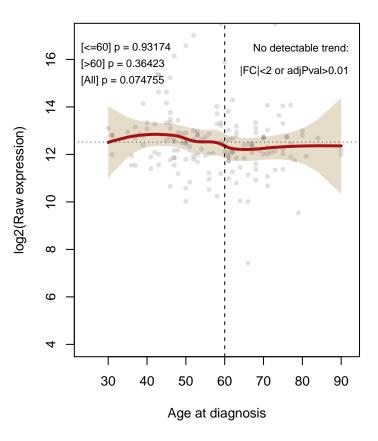






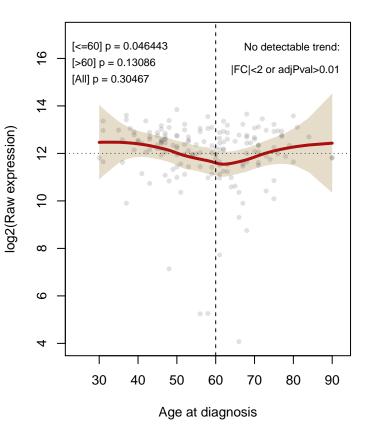
ERBB2 (non-ER binding)

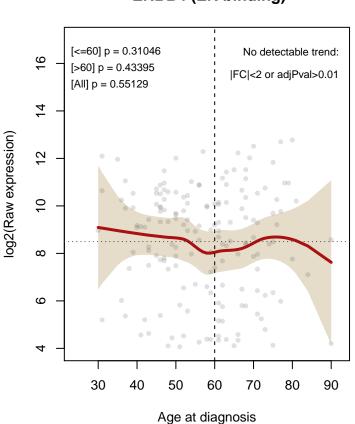


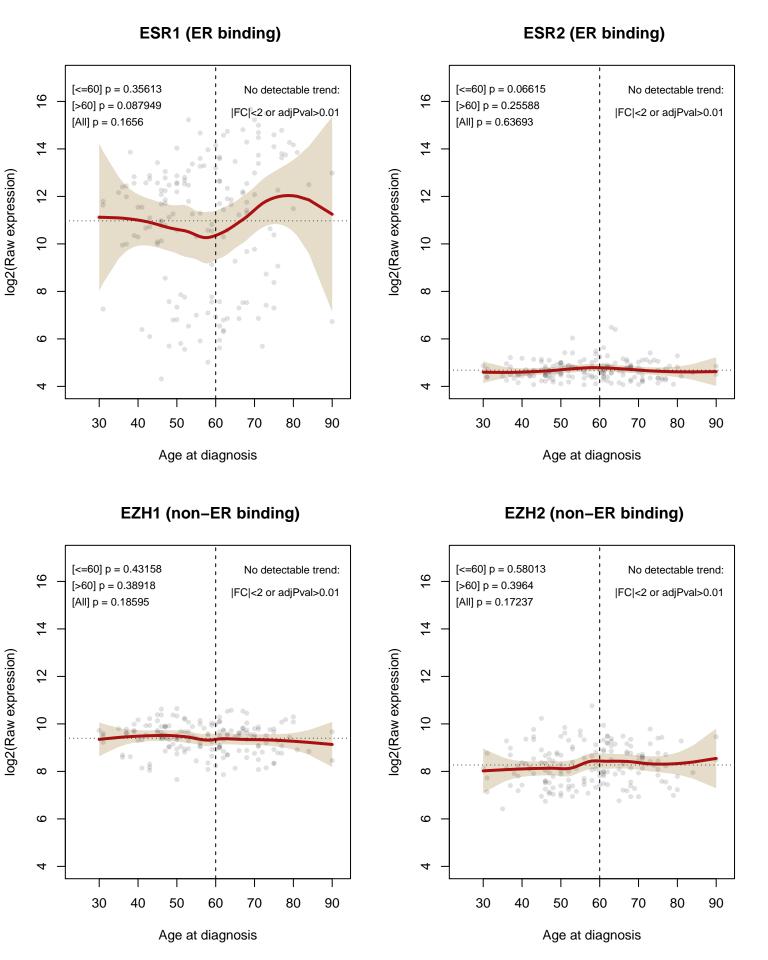


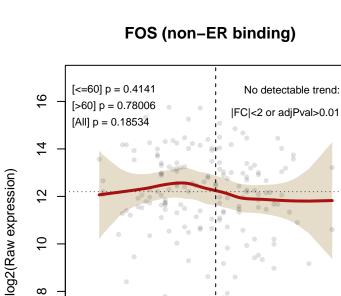
ERBB3 (non-ER binding)

ERBB4 (ER binding)



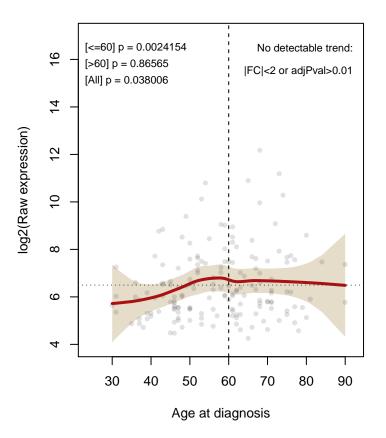






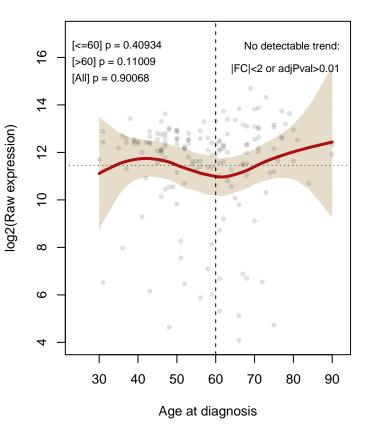
ω

FOSL1 (non-ER binding)

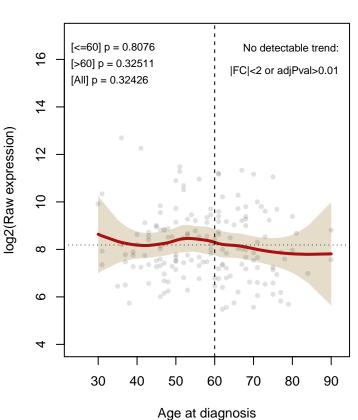


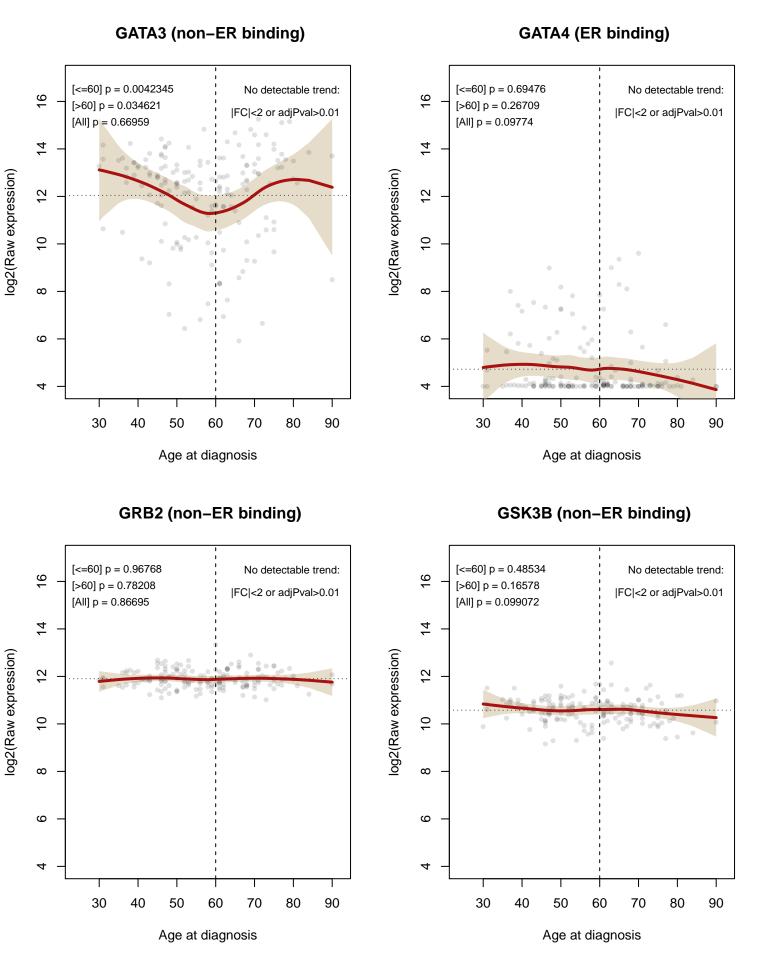
FOXA1 (ER binding)

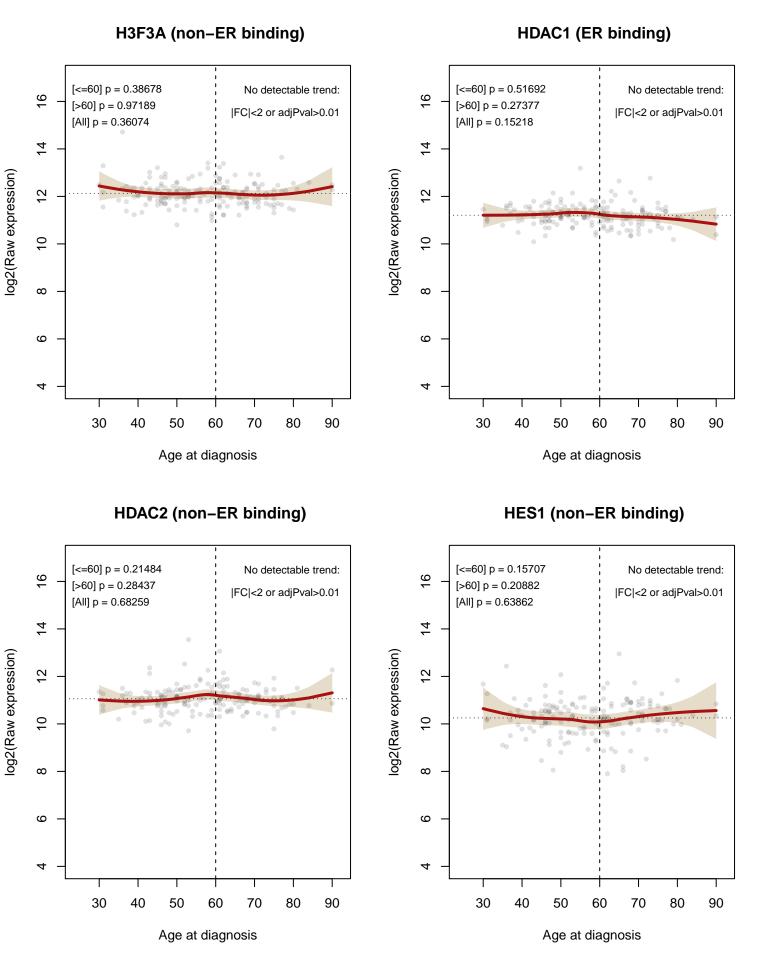
Age at diagnosis



FOXC1 (ER binding)

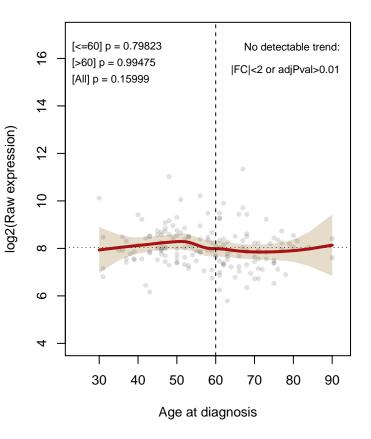


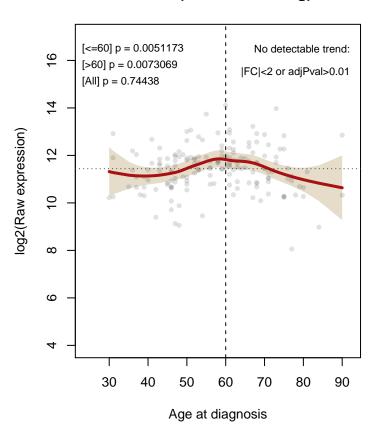






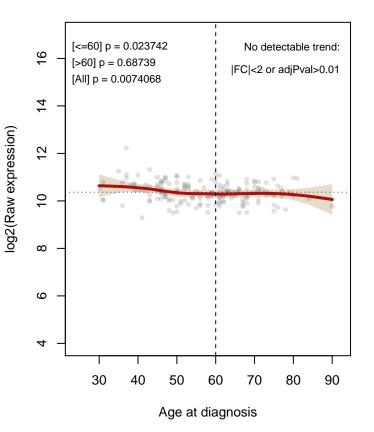
HIF1A (non-ER binding)

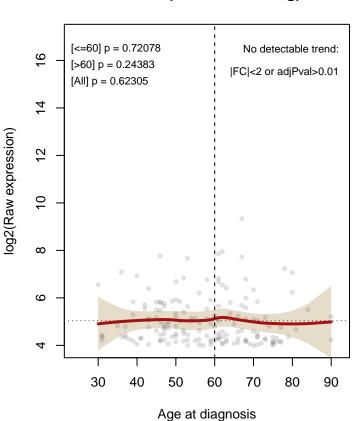




HIF1AN (non-ER binding)

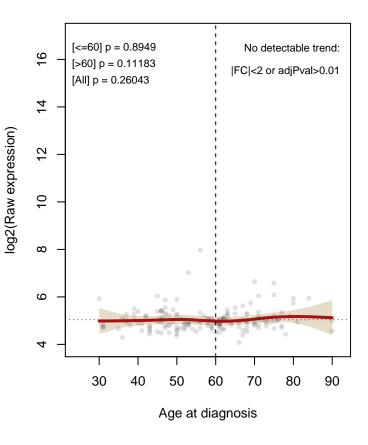
HIF3A (non-ER binding)

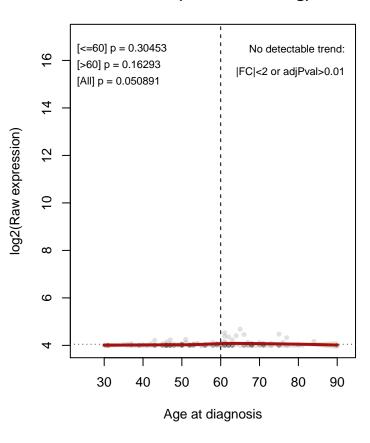




HNF1A (non-ER binding)

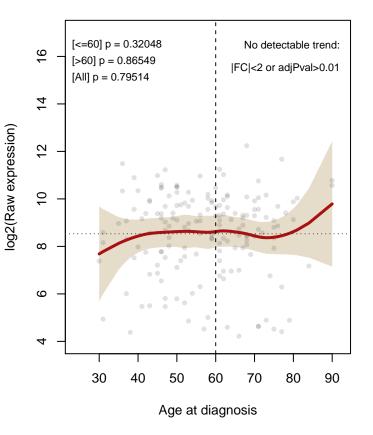
HNF1B (non-ER binding)

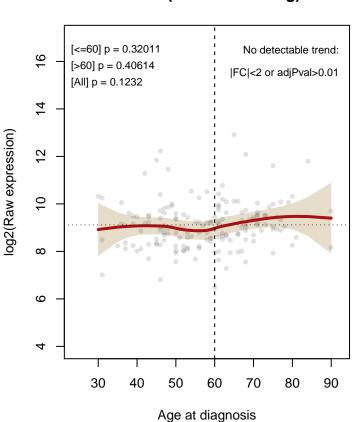




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.70579No detectable trend: [<=60] p = 0.5004No detectable trend: 16 16 [>60] p = 0.024216 [>60] p = 0.48609|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.022096[All] p = 0.108574 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.093984No detectable trend: [<=60] p = 0.2389No detectable trend: 16 16 [>60] p = 0.067002 [>60] p = 0.2996 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.59914[All] p = 0.0387314 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

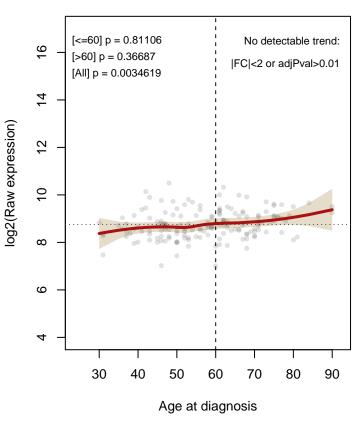
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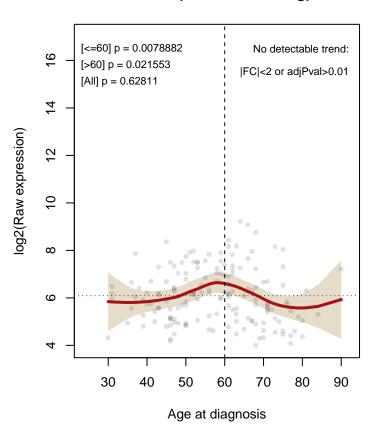
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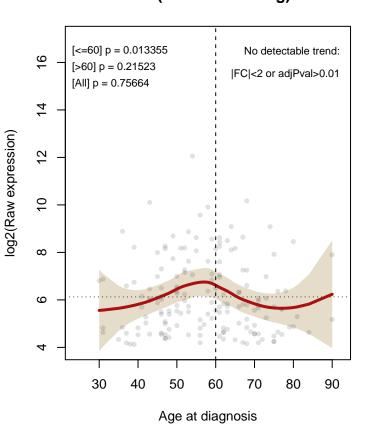
IL2RA (non-ER binding)

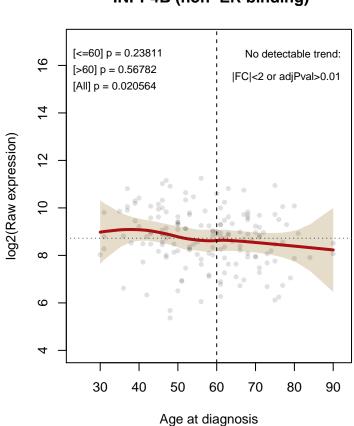


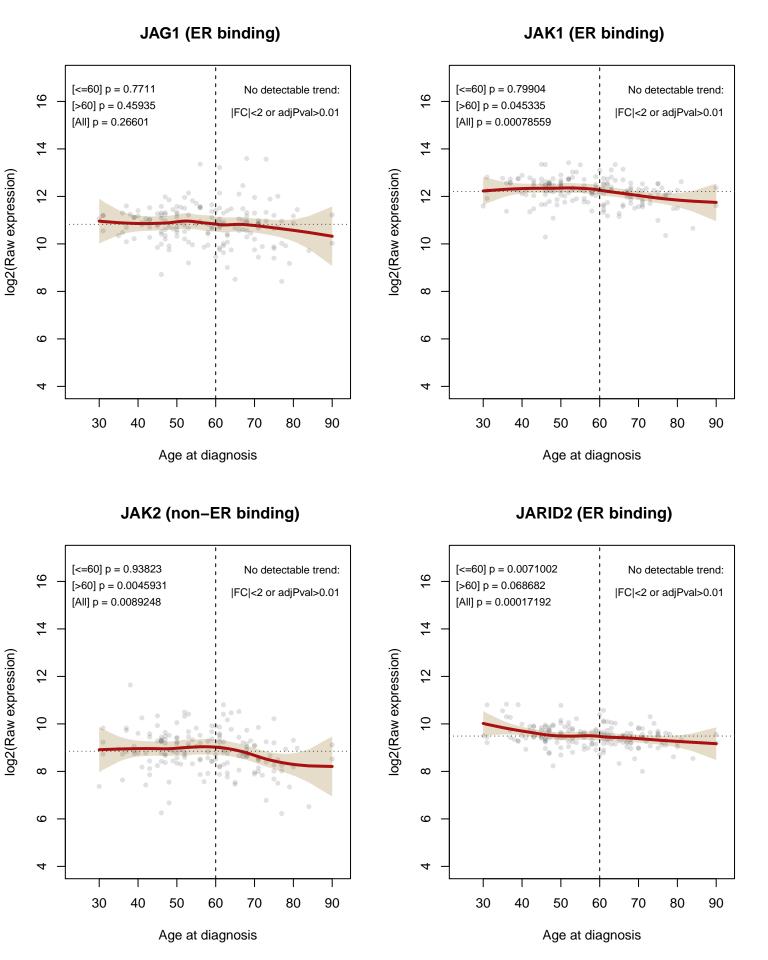


IL6 (non-ER binding)

INPP4B (non-ER binding)







JUN (non-ER binding) [<=60] p = 0.28741No detectable trend: 16 [>60] p = 0.72405 |FC|<2 or adjPval>0.01 [All] p = 0.994014 log2(Raw expression) 12 10

ω

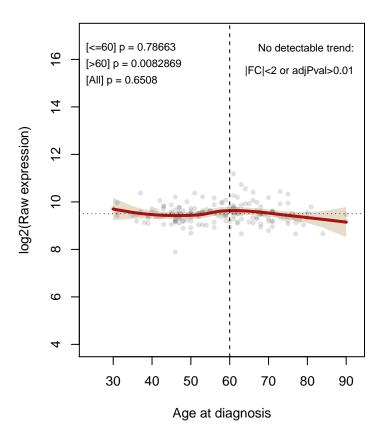
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KDM2B (non-ER binding)



KDM6A (non-ER binding)

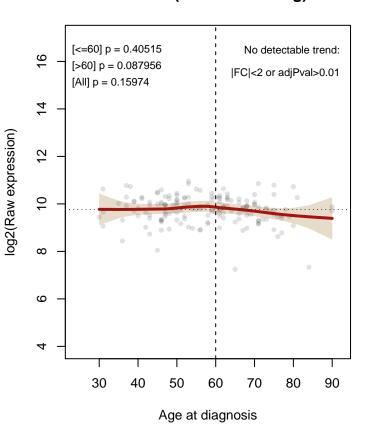
Age at diagnosis

60

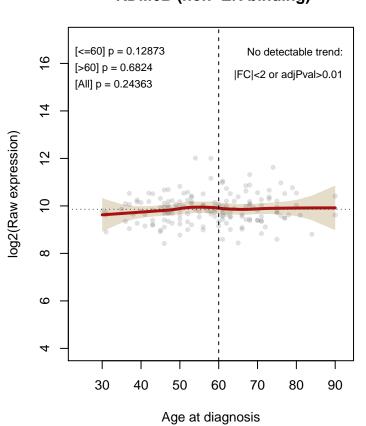
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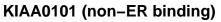
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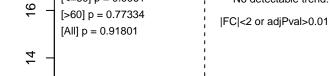


KDM6B (non-ER binding)





[<=60] p = 0.9061 No detectable trend:



log2(Raw expression)

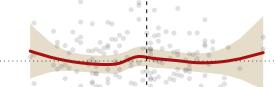
12

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ω

9



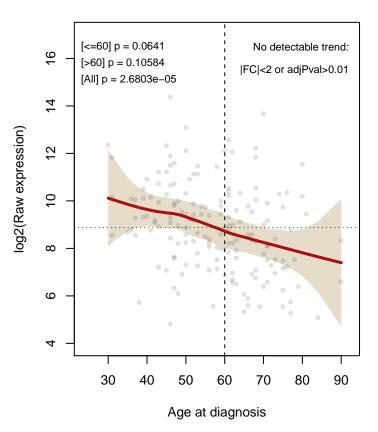


30 40 50 60 70 80

Age at diagnosis

90

KIT (non-ER binding)

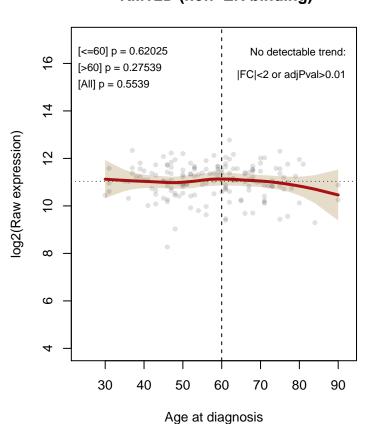


KMT2C (non-ER binding)

[<=60] p = 0.57225No detectable trend: 16 [>60] p = 0.26189 |FC|<2 or adjPval>0.01 [All] p = 0.151334 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

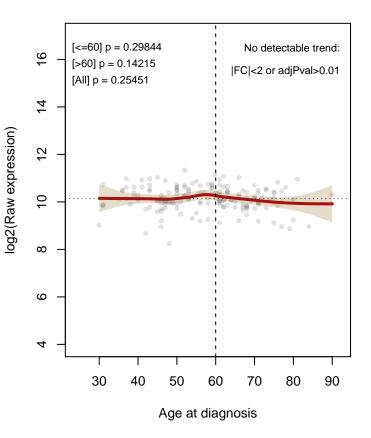
Age at diagnosis

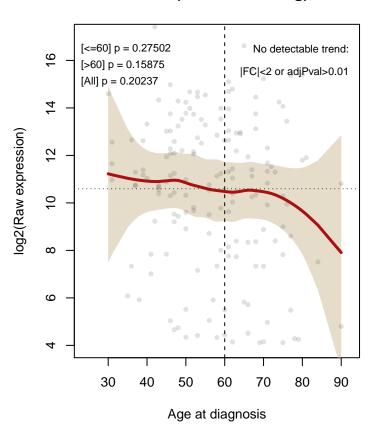
KMT2D (non-ER binding)





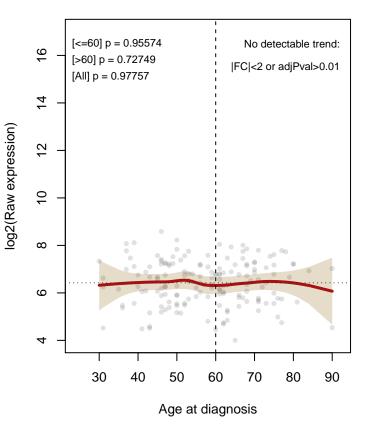
KRT5 (non-ER binding)

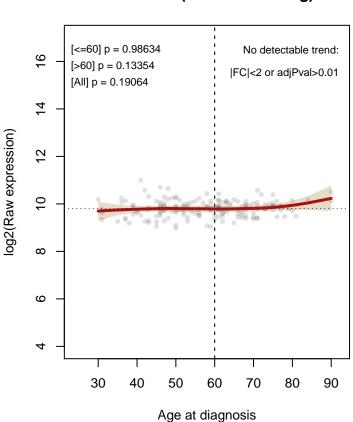




L3MBTL1 (non-ER binding)

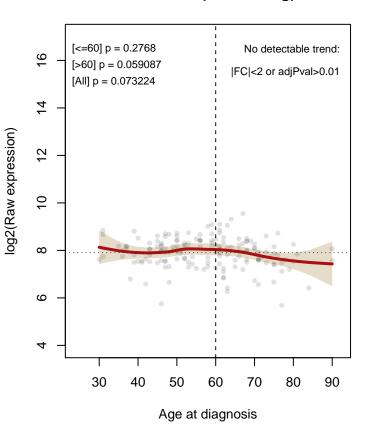
L3MBTL2 (non-ER binding)

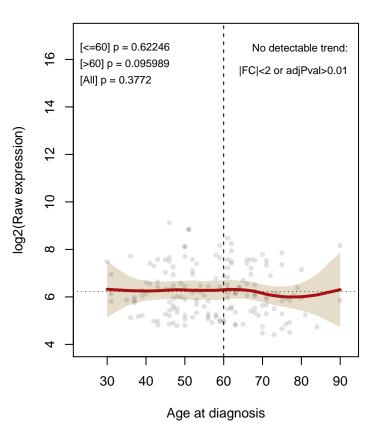




L3MBTL3 (ER binding)

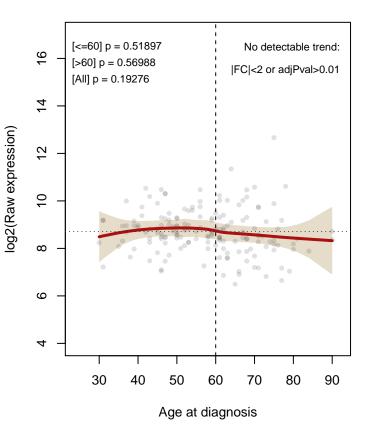
L3MBTL4 (non-ER binding)

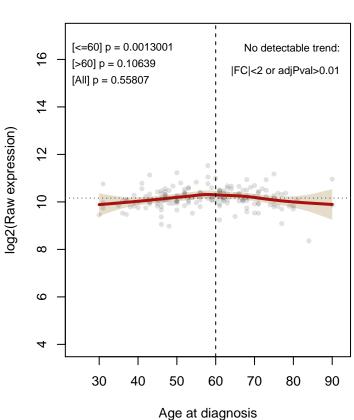




LEF1 (non-ER binding)

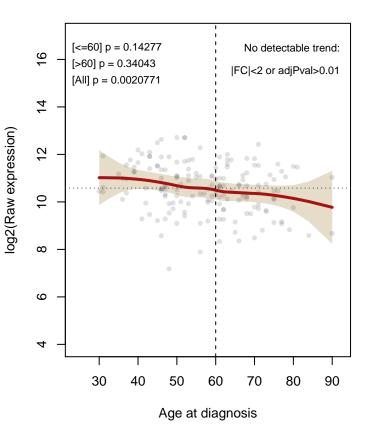
MAP2K1 (non-ER binding)

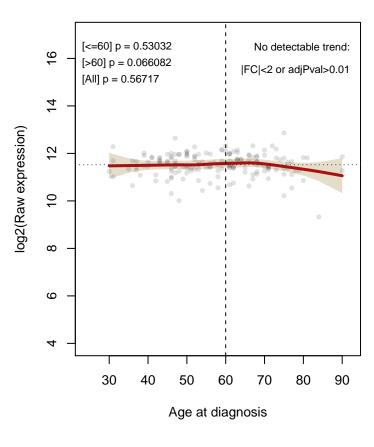






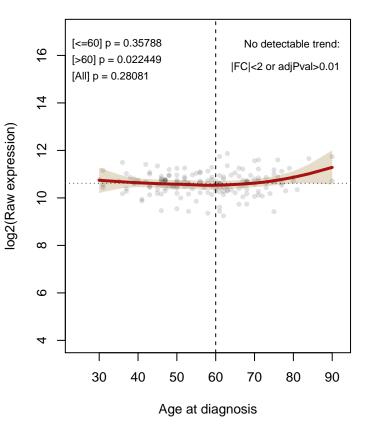
MAPK1 (non-ER binding)

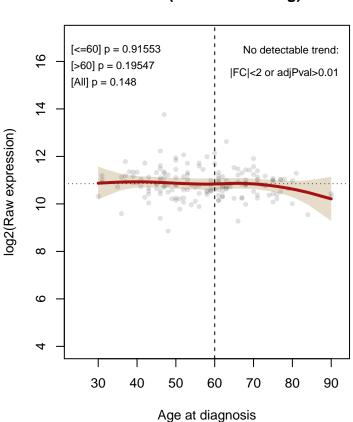




MAPK3 (non-ER binding)

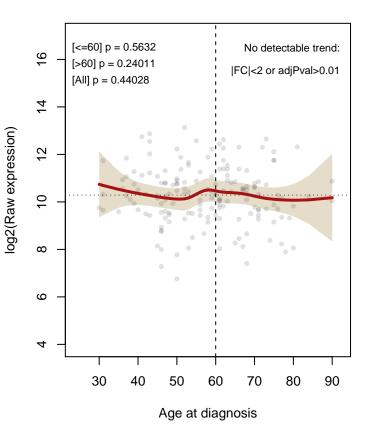
MDM2 (non-ER binding)

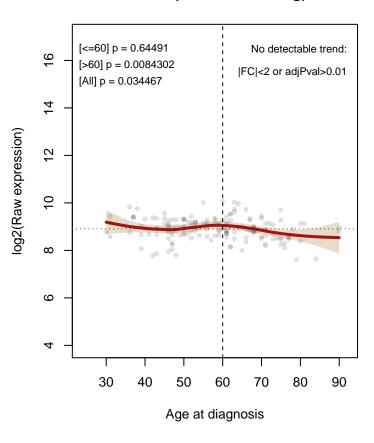






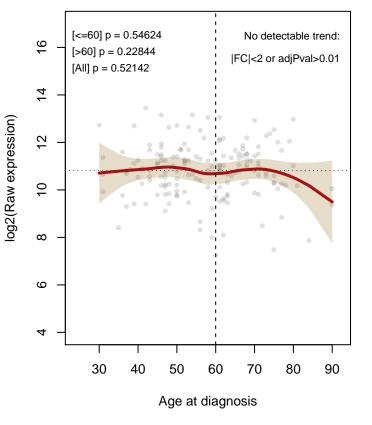
MTF2 (non-ER binding)

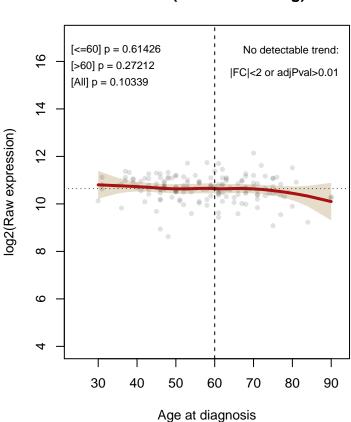




MYC (non-ER binding)

NCOA6 (non-ER binding)





NCOR1 (non-ER binding) **NES (non-ER binding)** [<=60] p = 0.97414No detectable trend: [<=60] p = 0.3443No detectable trend: 16 16 [>60] p = 0.098245 [>60] p = 0.46091 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.085719[All] p = 0.146354 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 NFKB1 (non-ER binding) NFKB2 (non-ER binding) [<=60] p = 0.3712No detectable trend: [<=60] p = 0.49772No detectable trend: 16 16 [>60] p = 0.36979 [>60] p = 0.85175 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.17343[AII] p = 0.598994 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9

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Age at diagnosis

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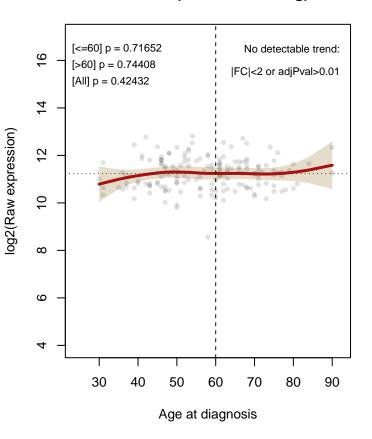
Age at diagnosis

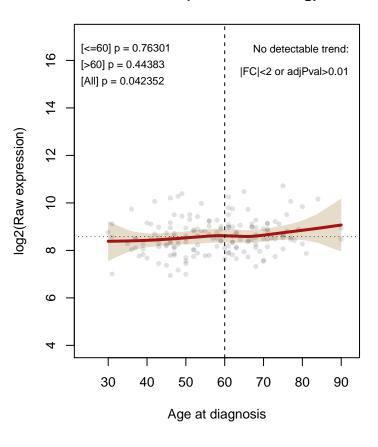
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NFKBIA (non-ER binding)

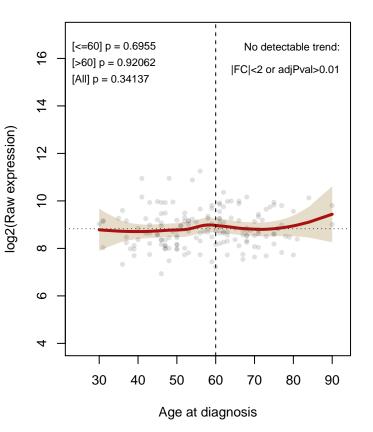
NFKBIB (non-ER binding)

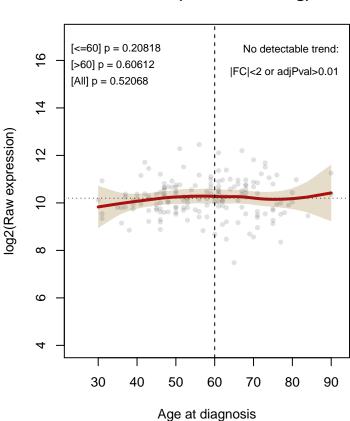




NFKBIE (non-ER binding)

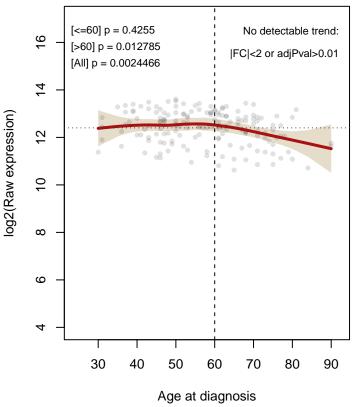
NOTCH1 (non-ER binding)

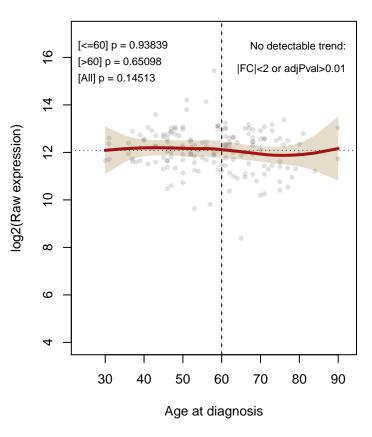




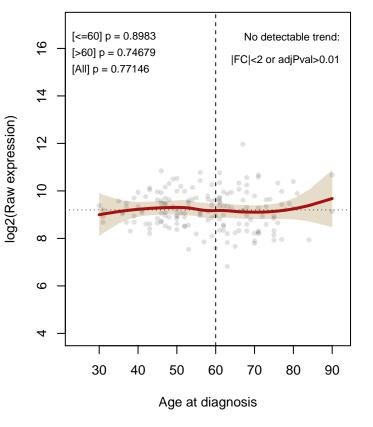
NOTCH2 (non-ER binding)

NOTCH3 (non-ER binding)

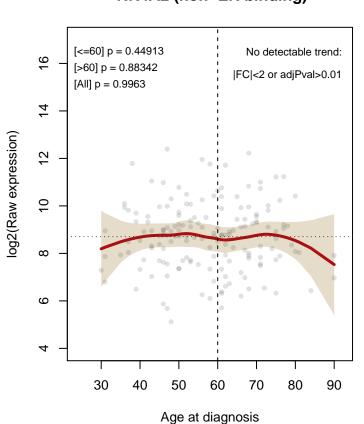




NOTCH4 (non-ER binding)

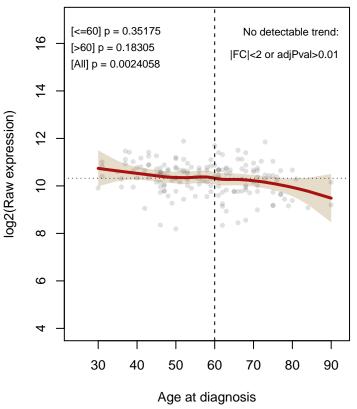


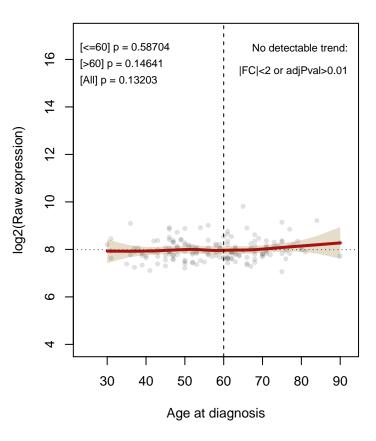
NR4A2 (non-ER binding)





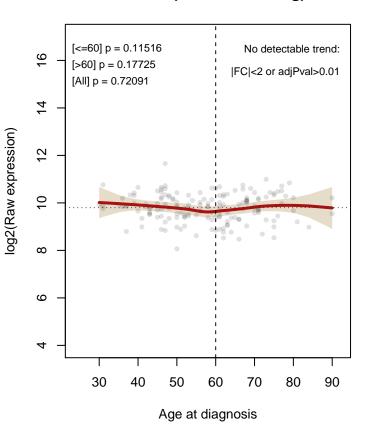
PCGF1 (non-ER binding)

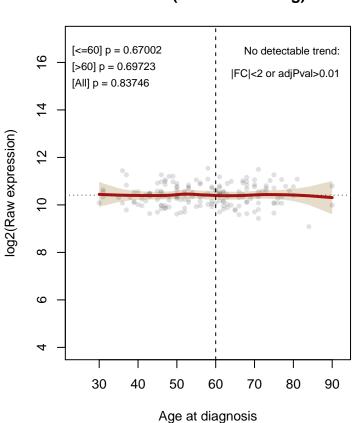




PCGF2 (non-ER binding)

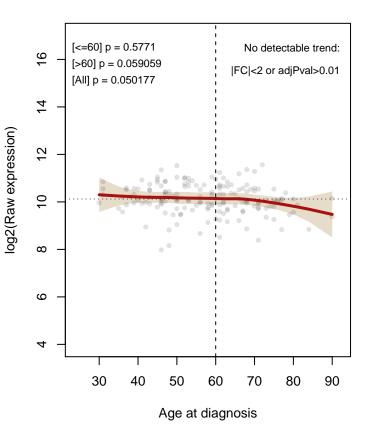
PCGF3 (non-ER binding)

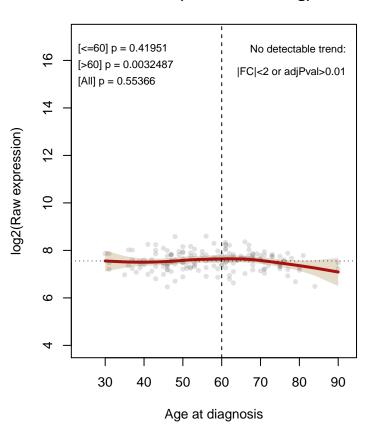






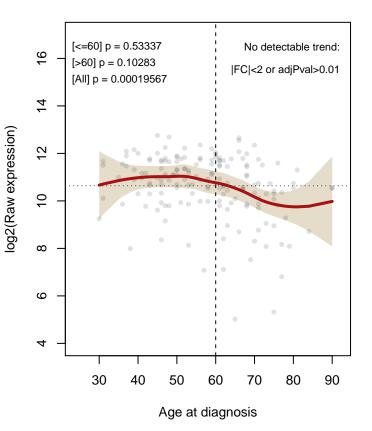
PCGF6 (non-ER binding)

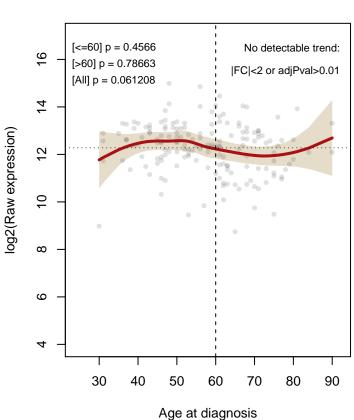


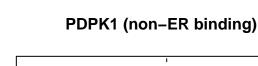


PDGFRA (non-ER binding)

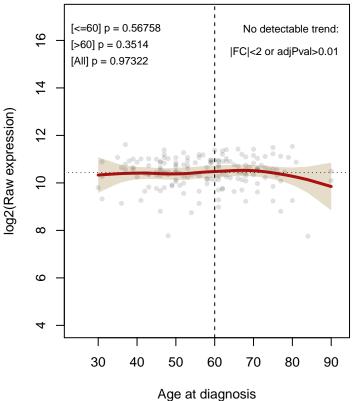
PDGFRB (non-ER binding)

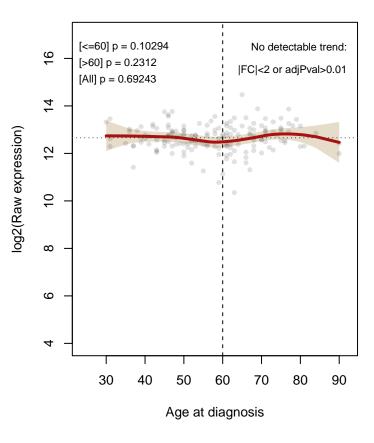






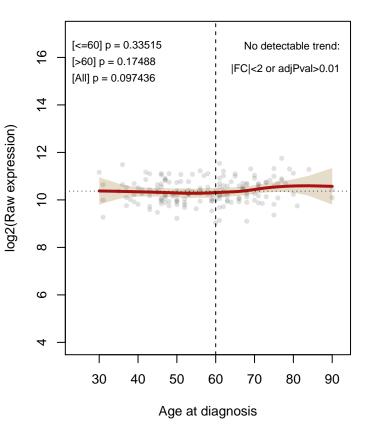
PEBP1 (non-ER binding)

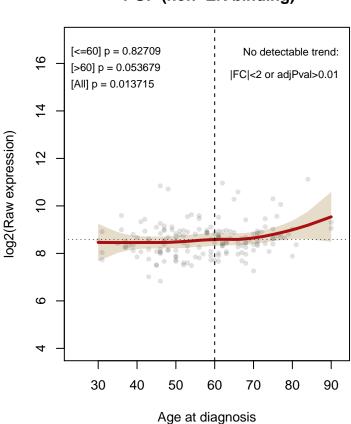


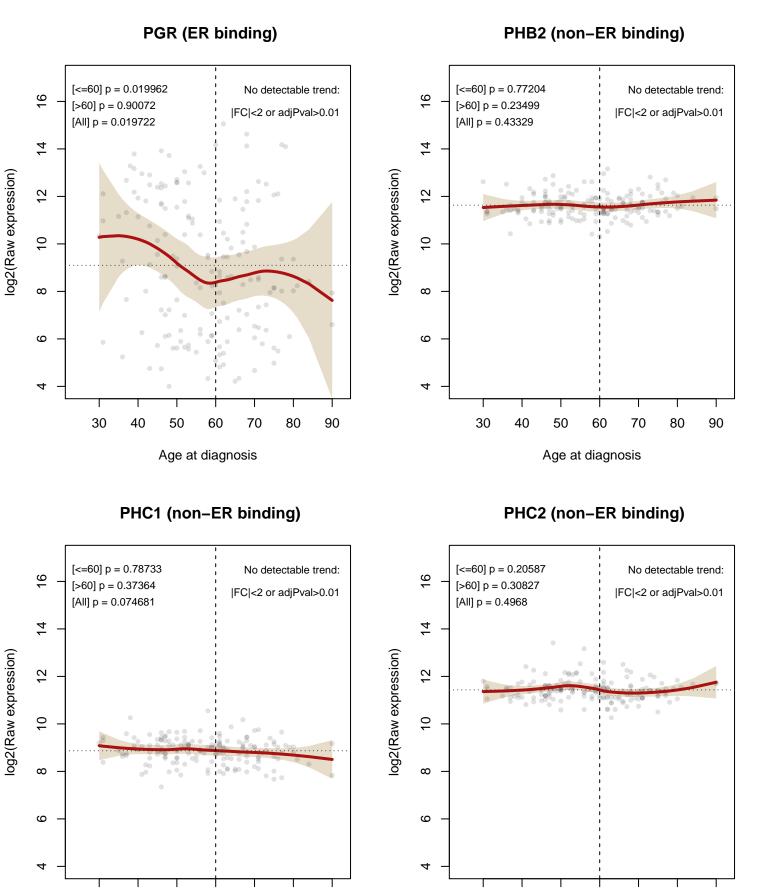


PELP1 (non-ER binding)

PGP (non-ER binding)







Age at diagnosis

Age at diagnosis

PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.91457No detectable trend: [<=60] p = 0.42558No detectable trend: 16 16 [>60] p = 0.010024 [>60] p = 0.25561 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.064228[AII] p = 0.0567964 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 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 = 0.76894No detectable trend: [<=60] p = 0.63698No detectable trend: 16 16 [>60] p = 0.68564[>60] p = 8.2298e-05 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.80832[AII] p = 0.000349164 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω

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Age at diagnosis

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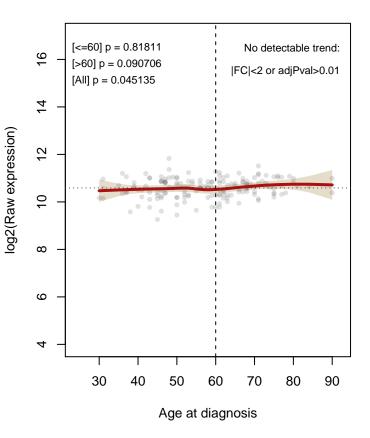
Age at diagnosis

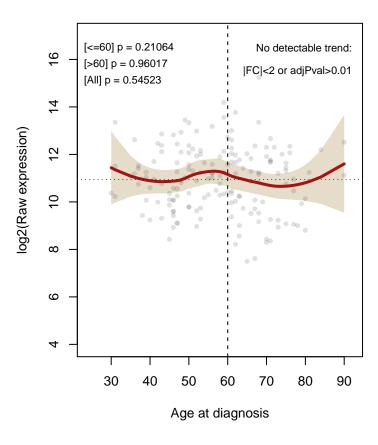
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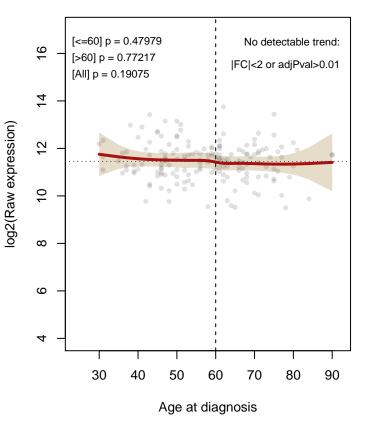
PLAU (non-ER binding)

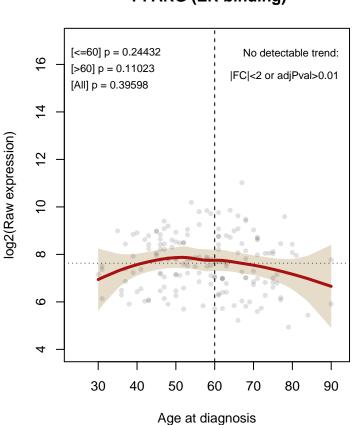




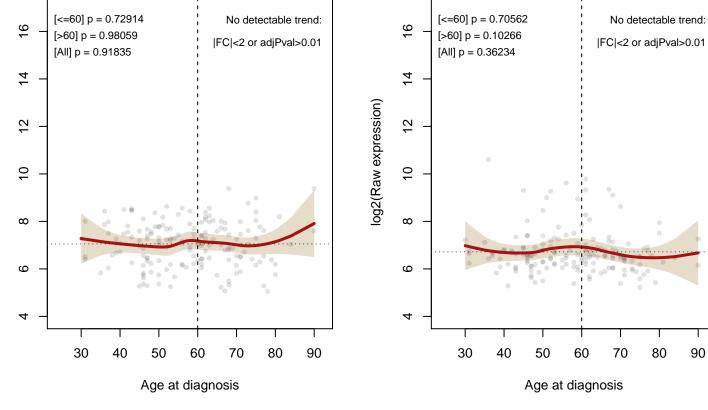
PODXL (non-ER binding)

PPARG (ER binding)



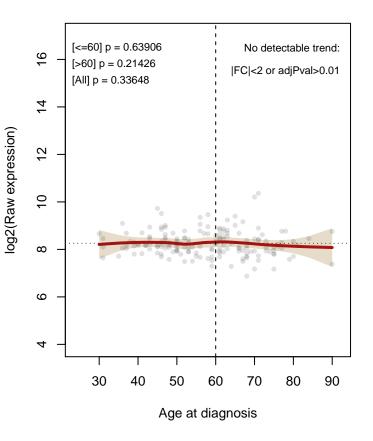


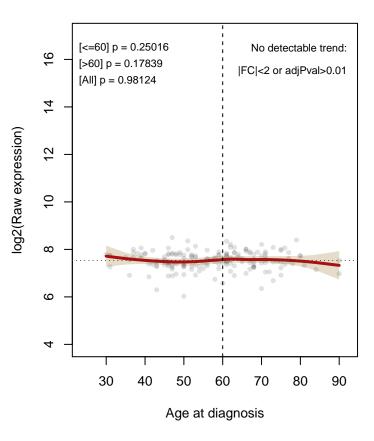
PYDC1 (non-ER binding) PTEN (non-ER binding) [<=60] p = 0.19446No detectable trend: [<=60] p = 0.45301No detectable trend: 16 16 [>60] p = 0.019116 [>60] p = 0.19984 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.00028504[AII] p = 0.059024 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis RAD51 (non-ER binding) RAD51B (ER binding) [<=60] p = 0.72914No detectable trend: [<=60] p = 0.70562No detectable trend: 16 16 [>60] p = 0.98059 [>60] p = 0.10266 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.91835[All] p = 0.362344 4 log2(Raw expression) 12 12 10 10



RAD51C (non-ER binding)

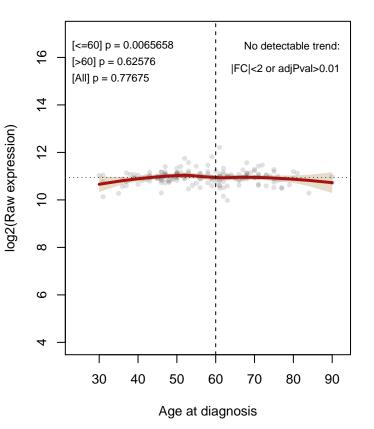
RAD51D (non-ER binding)

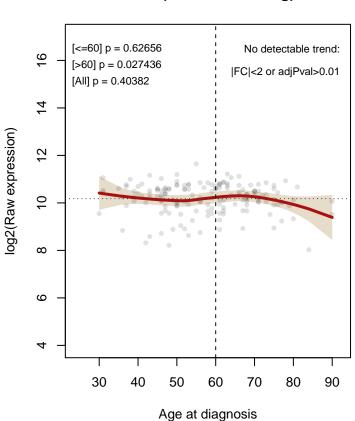




RAF1 (non-ER binding)

RB1 (non-ER binding)





RBBP4 (non-ER binding) RBBP5 (non-ER binding) [<=60] p = 0.92888No detectable trend: [<=60] p = 0.97991No detectable trend: 16 16 [>60] p = 0.045665 [>60] p = 0.068536 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.11294[AII] p = 0.00318774 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 RBBP7 (non-ER binding) **REL** (non-ER binding) [<=60] p = 0.39981No detectable trend: [<=60] p = 0.91615 No detectable trend: 16 16 [>60] p = 0.020672 [>60] p = 0.037788 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.12202[All] p = 0.453184 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞

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Age at diagnosis

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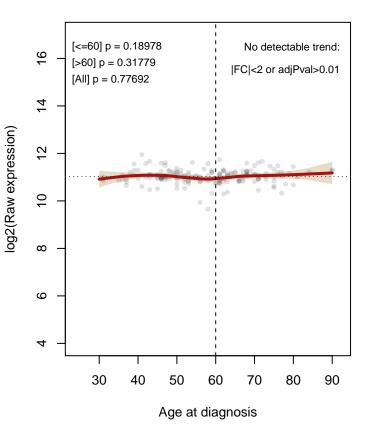
Age at diagnosis

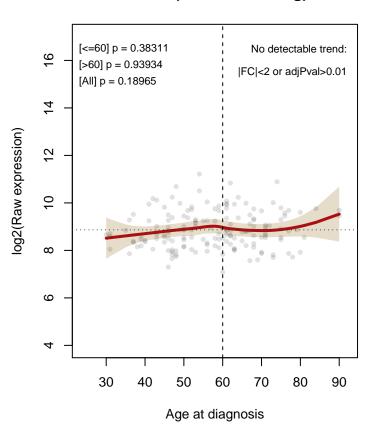
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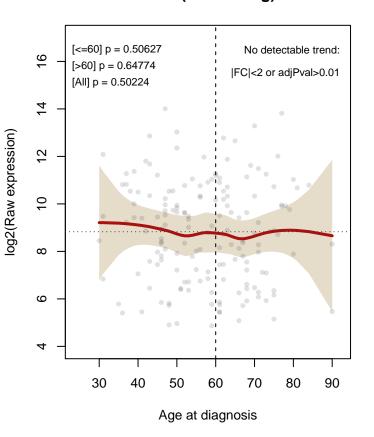
RELB (non-ER binding)

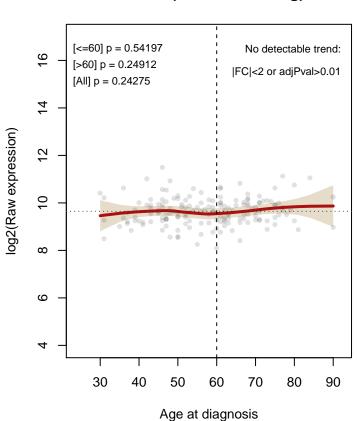


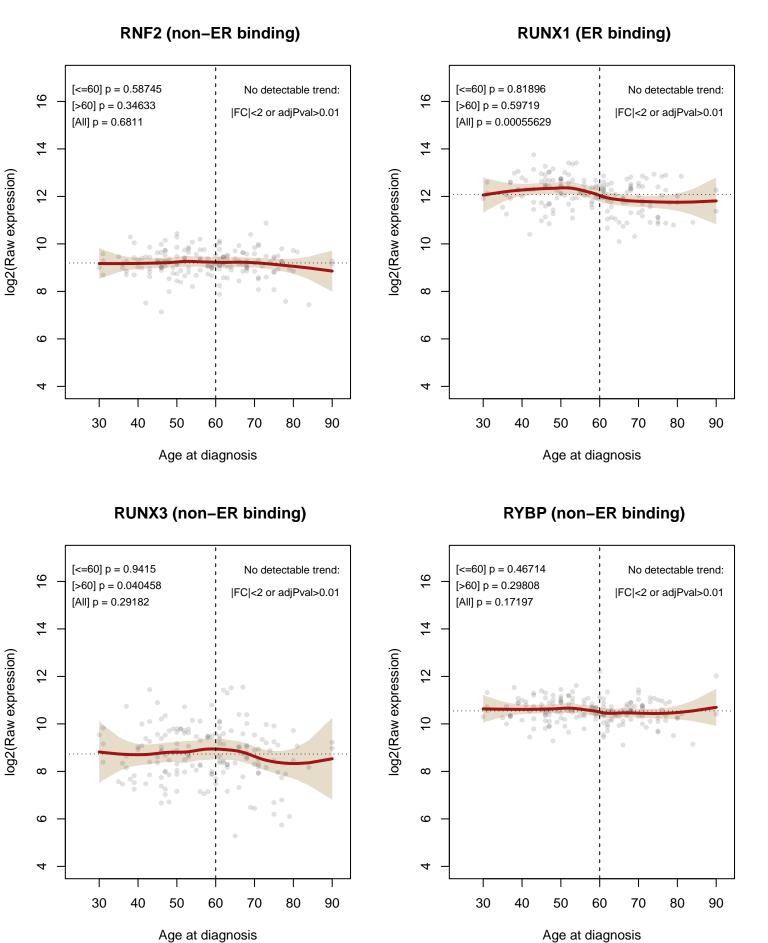


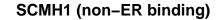
RET (ER binding)

RING1 (non-ER binding)

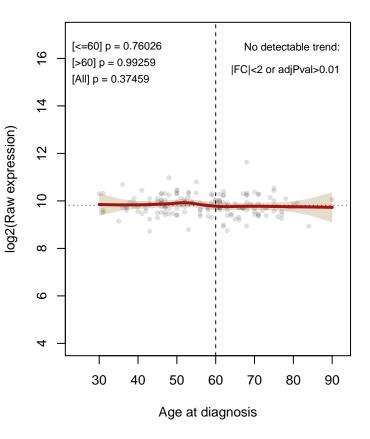


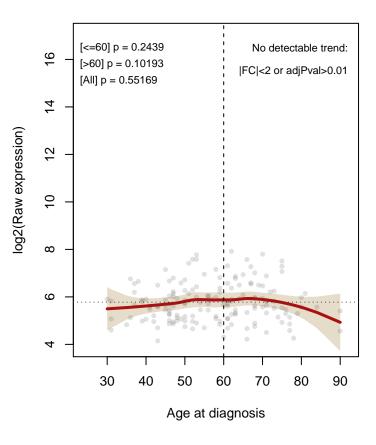






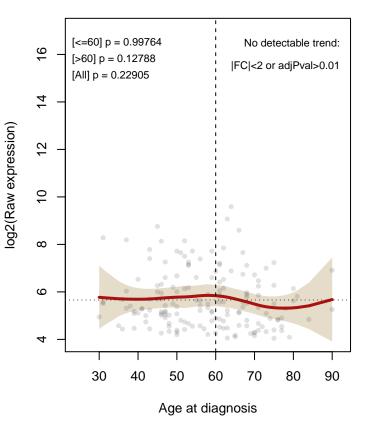
SCML2 (non-ER binding)

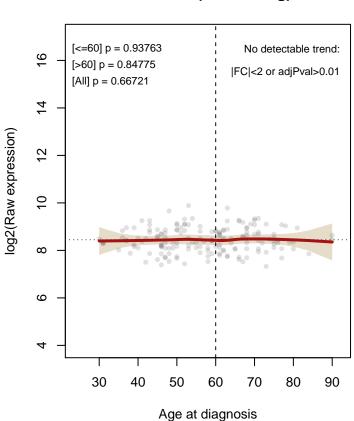




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.54164No detectable trend: [<=60] p = 0.8443No detectable trend: 16 16 [>60] p = 0.072376 [>60] p = 0.22766 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.1843[AII] p = 0.0307624 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 SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.04297 No detectable trend: [<=60] p = 0.74849No detectable trend: 16 16 [>60] p = 0.99356 [>60] p = 0.059343 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.93289[All] p = 0.0712754 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9

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Age at diagnosis

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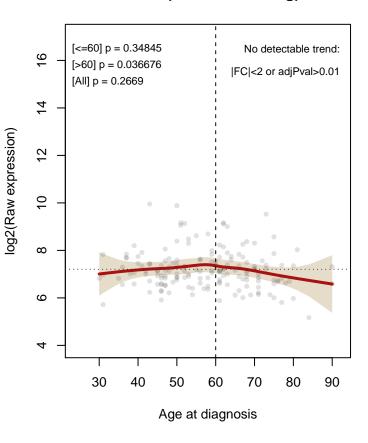
Age at diagnosis

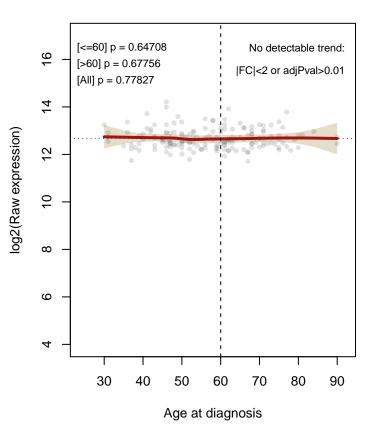
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SKP2 (non-ER binding)

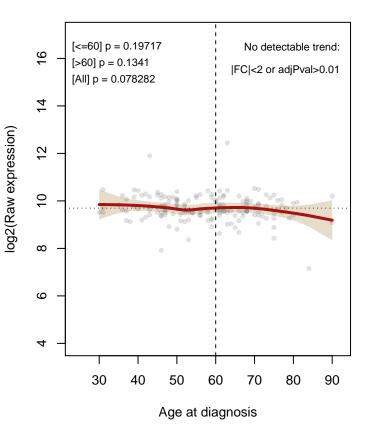
SLC25A3 (non-ER binding)

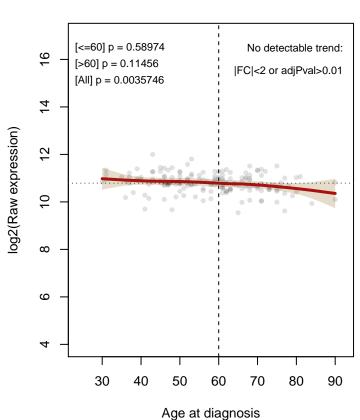




SMAD1 (non-ER binding)

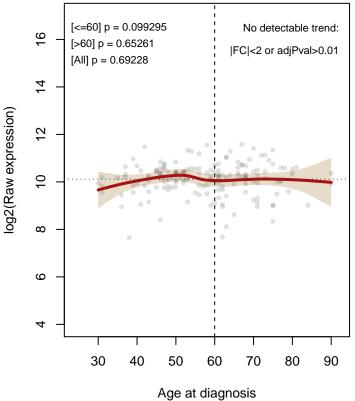
SMAD2 (non-ER binding)

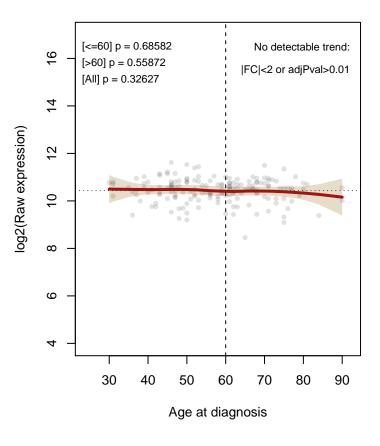




SMAD3 (ER binding)

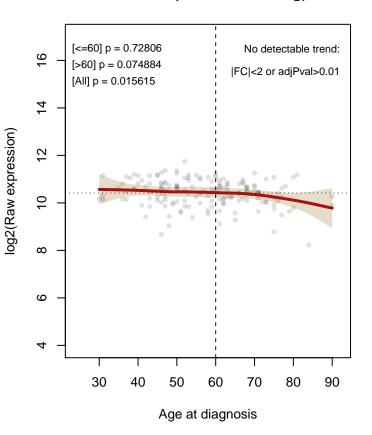
SMAD4 (non-ER binding)

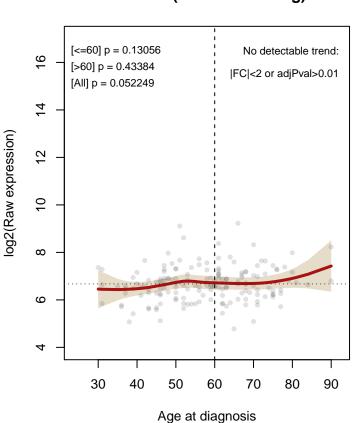


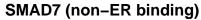


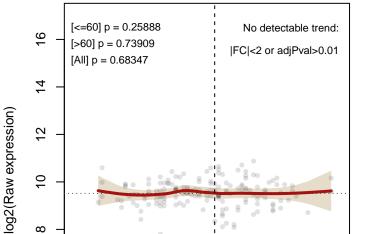
SMAD5 (non-ER binding)

SMAD6 (non-ER binding)



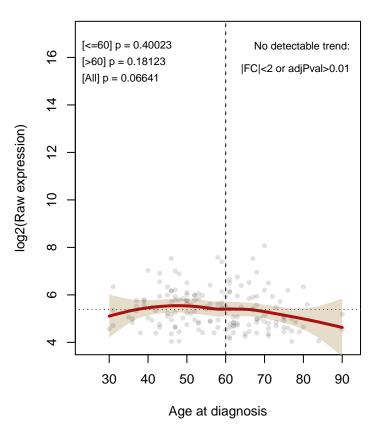






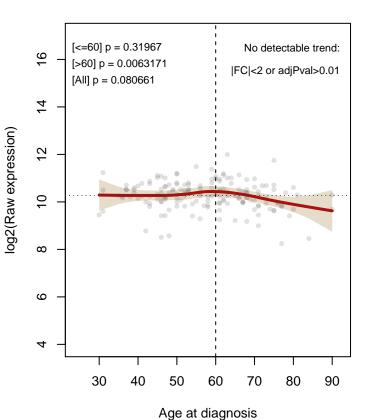
ω

SMAD9 (non-ER binding)

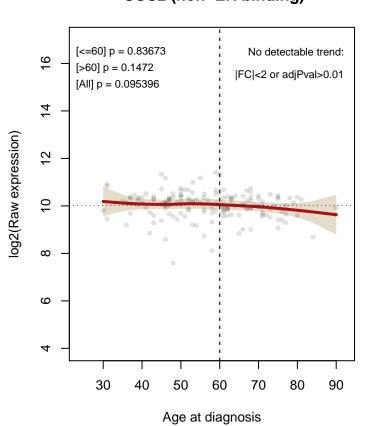


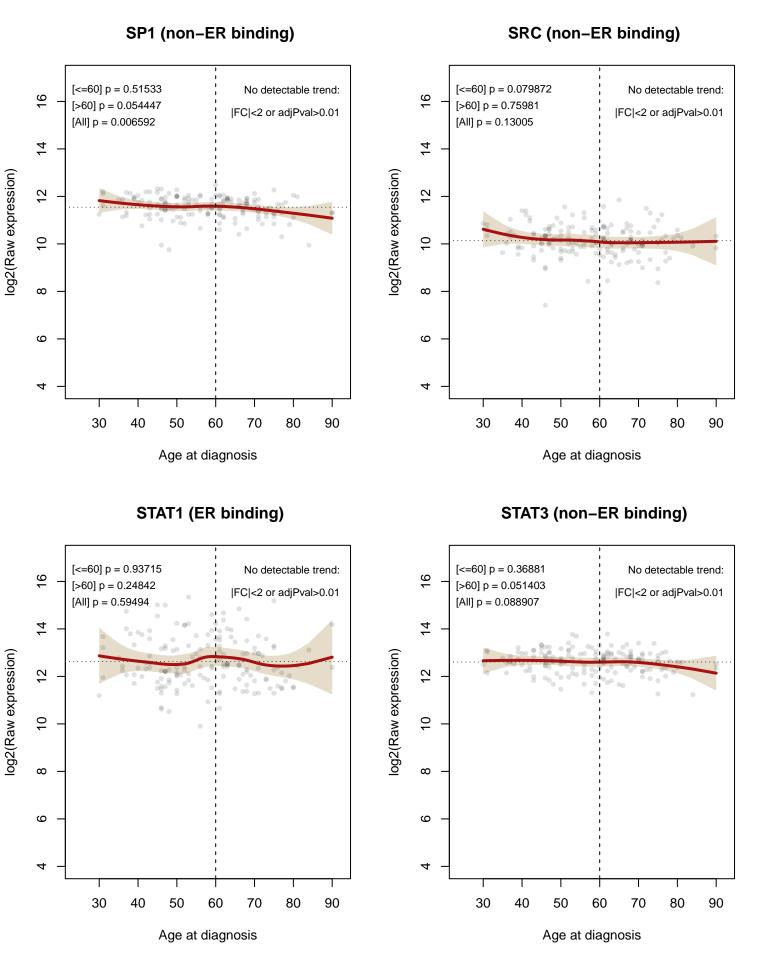
SOS1 (non-ER binding)

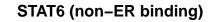
Age at diagnosis



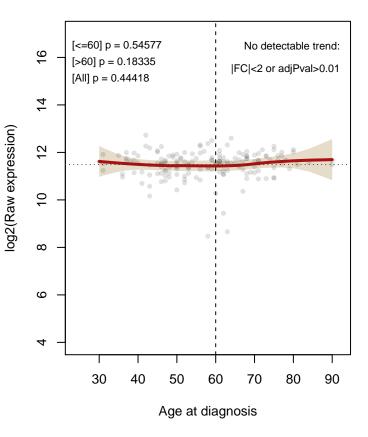
SOS2 (non-ER binding)

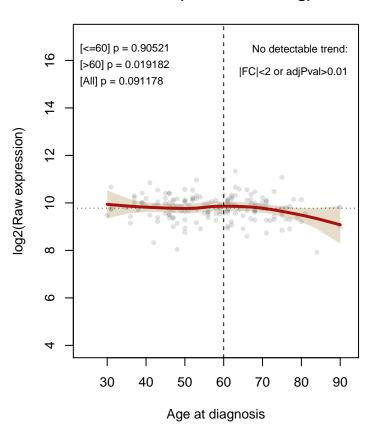






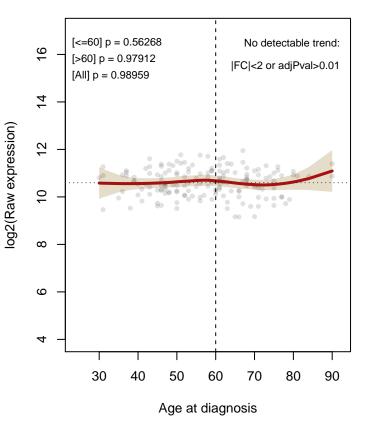
SUZ12 (non-ER binding)

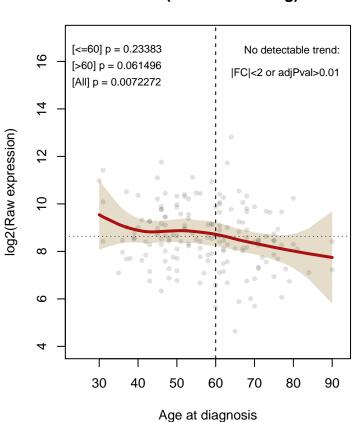




TCF3 (non-ER binding)

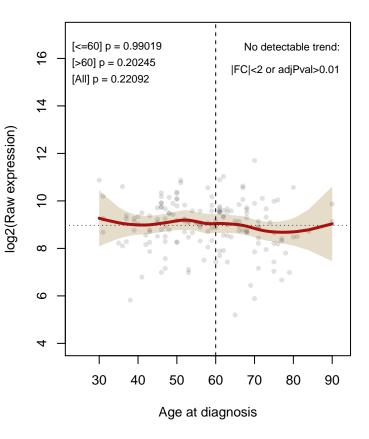
TCF7 (non-ER binding)

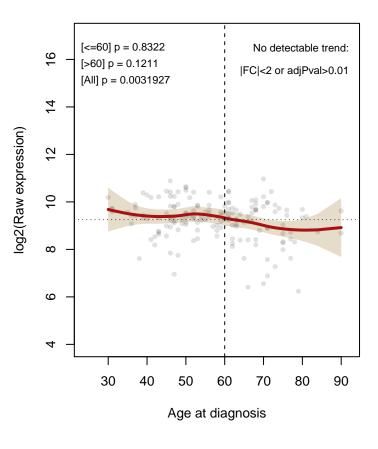






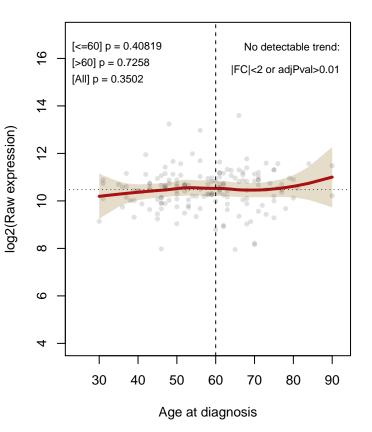
TCF7L2 (non-ER binding)

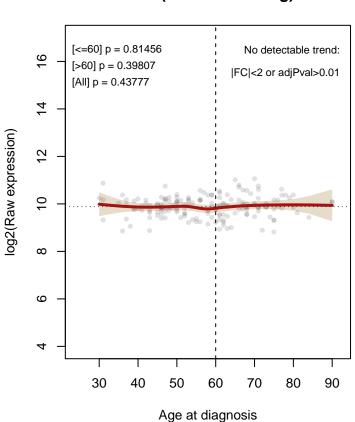


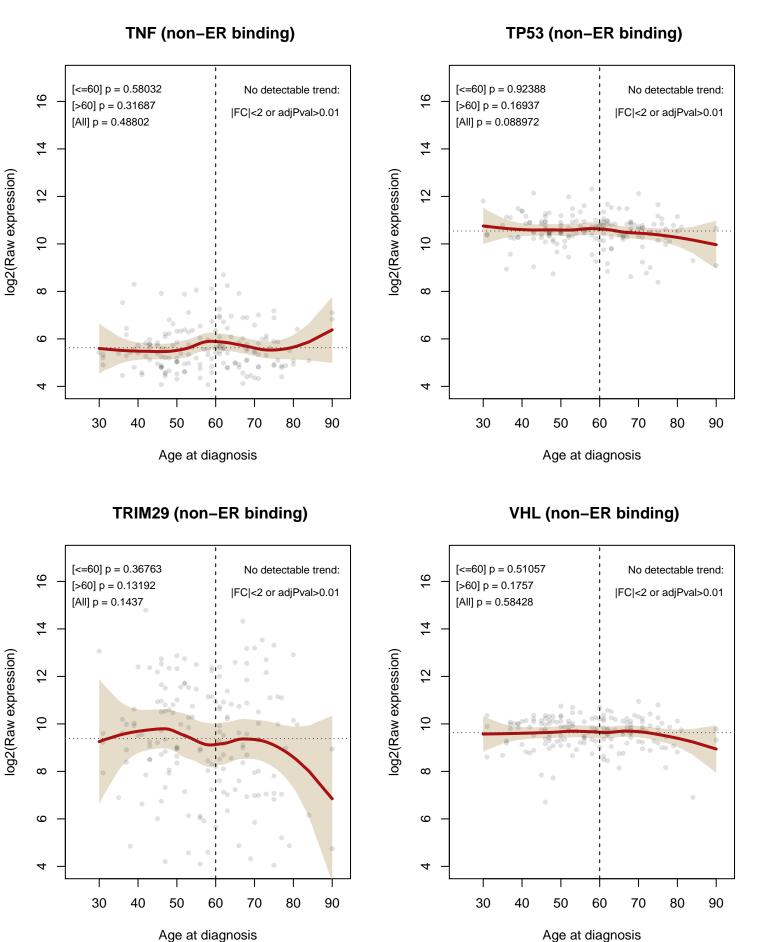


TGFB1 (non-ER binding)

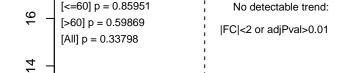
TK2 (non-ER binding)

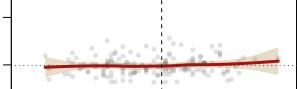










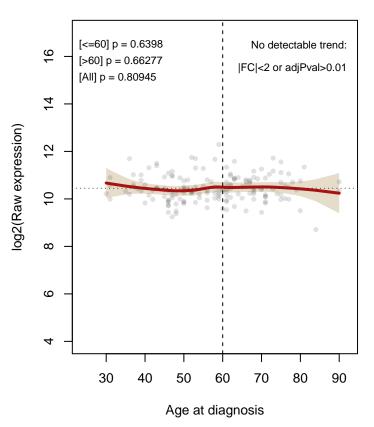


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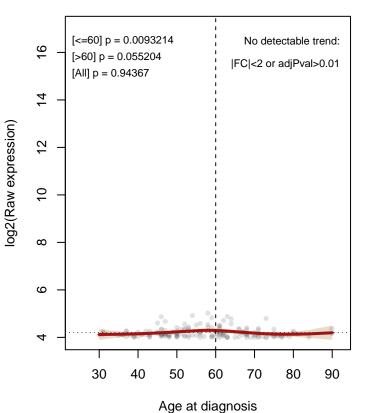
log2(Raw expression)

Age at diagnosis

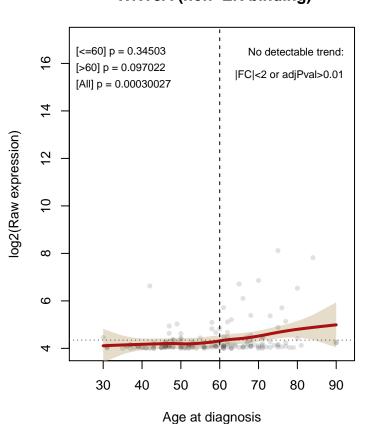
WHSC1 (non-ER binding)

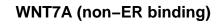


WNT1 (non-ER binding)

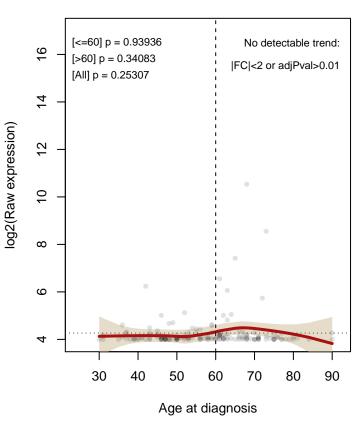


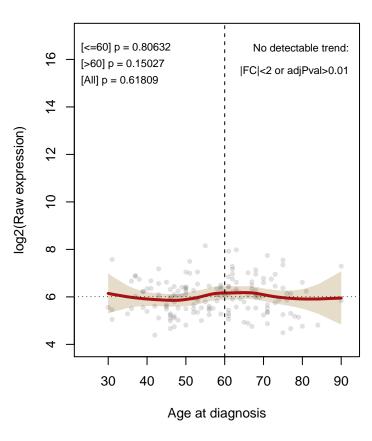
WNT3A (non-ER binding)





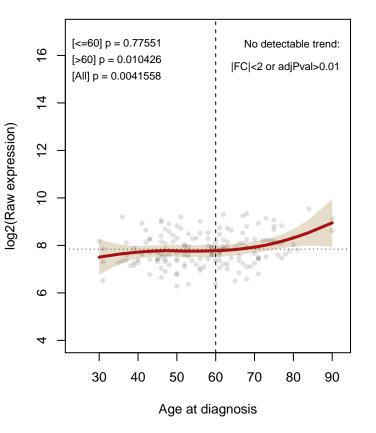
XRCC2 (non-ER binding)

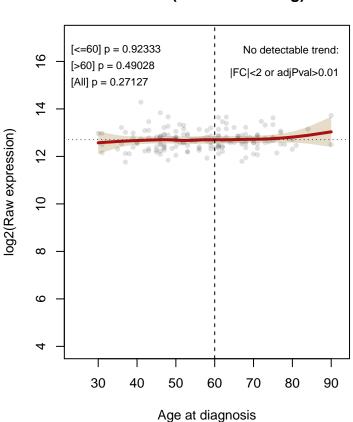




XRCC3 (non-ER binding)

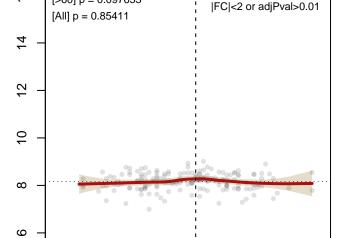
XRCC6 (non-ER binding)





YAF2 (non-ER binding)

[<=60] p = 0.15353 | No detectable trend: [>60] p = 0.097653 | DECL-2 or odiPicol 0.01



16

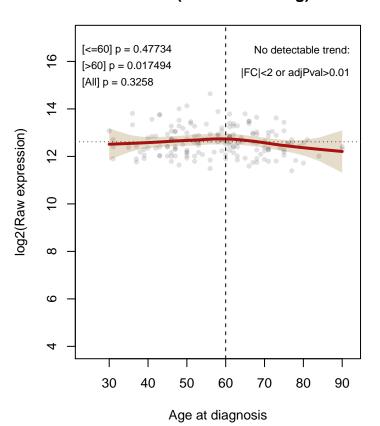
30

40

50

log2(Raw expression)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

60

70

80

