AEBP2 (non-ER binding) AKT1 (ER binding) [<=60] p = 0.63449No detectable trend: [<=60] p = 0.45809No detectable trend: 16 16 [>60] p = 0.047157 [>60] p = 0.4171 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.045393[AII] p = 0.367254 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 AKT3 (non-ER binding) AKT2 (non-ER binding) [<=60] p = 0.90778No detectable trend: [<=60] p = 0.33632No detectable trend: 16 16 [>60] p = 0.15111 [>60] p = 0.2298 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.48727[All] p = 0.696744 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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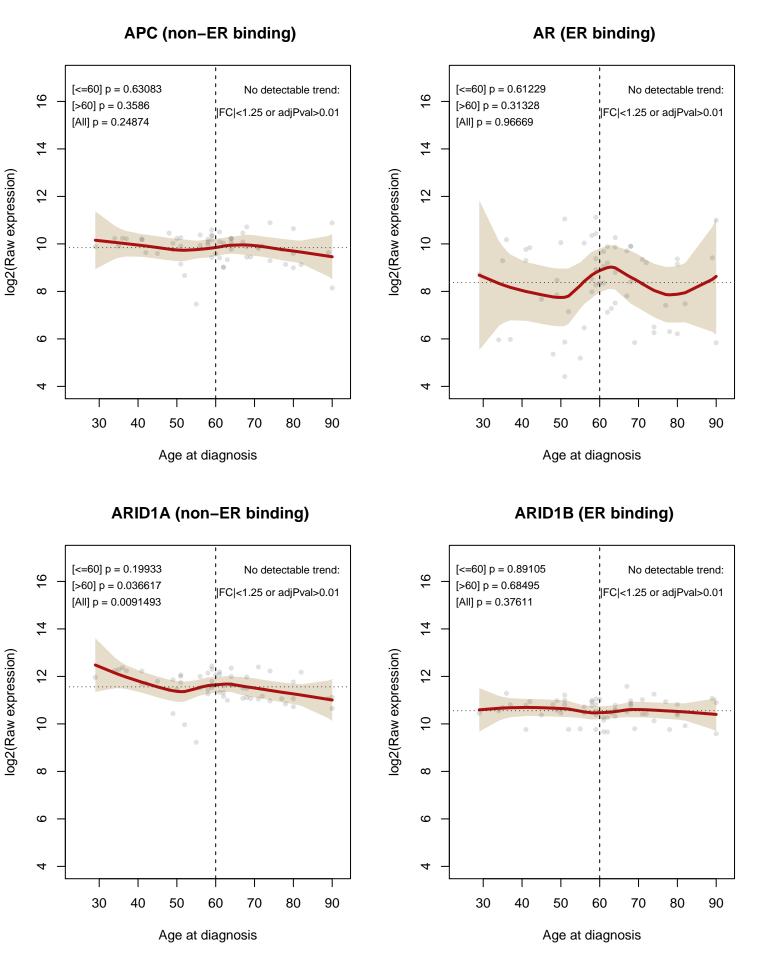
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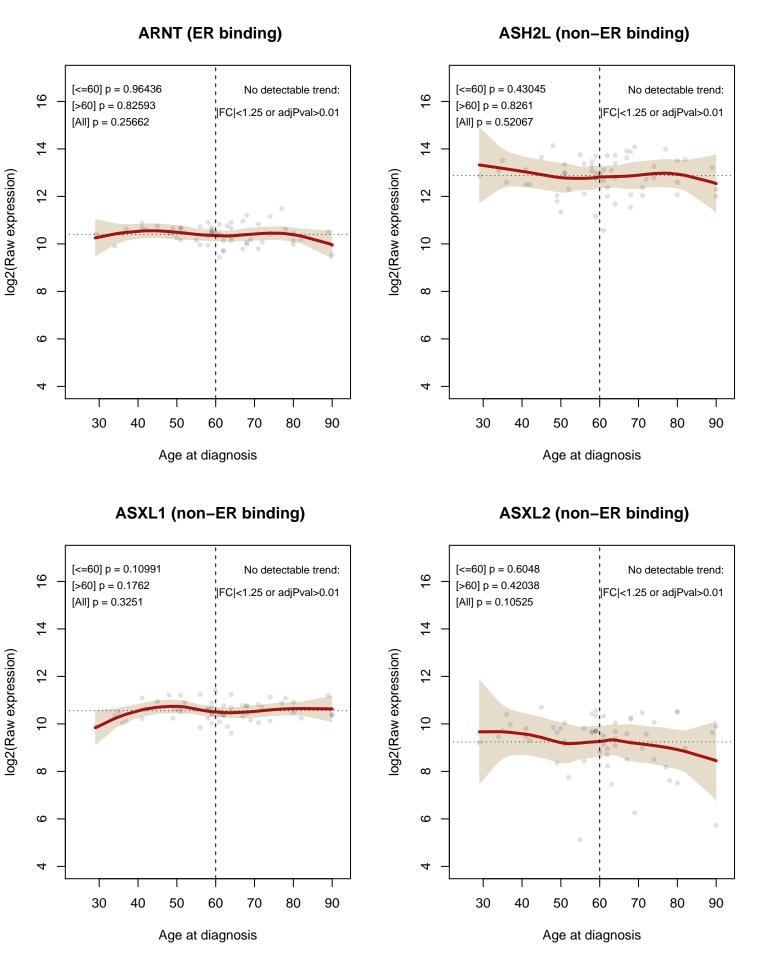
Age at diagnosis

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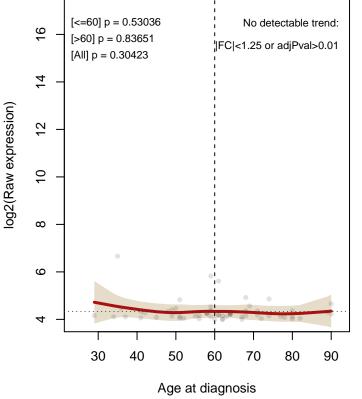
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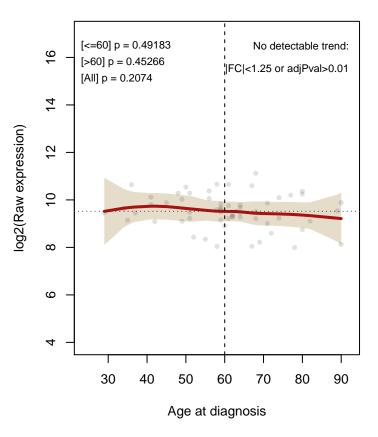




ASXL3 (non–ER binding) [<=60] p = 0.53036 No detectable

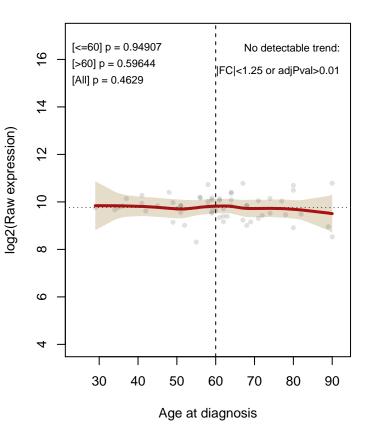
ATM (non-ER binding)

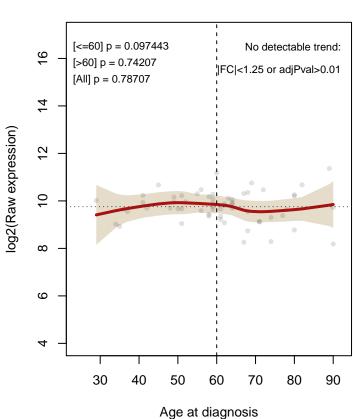




ATR (non-ER binding)

AXIN1 (ER binding)





BCL2 (non-ER binding) [<=60] p = 0.39658No detectable trend: 16 [>60] p = 0.019708 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00418564 log2(Raw expression) 12 19

 ∞

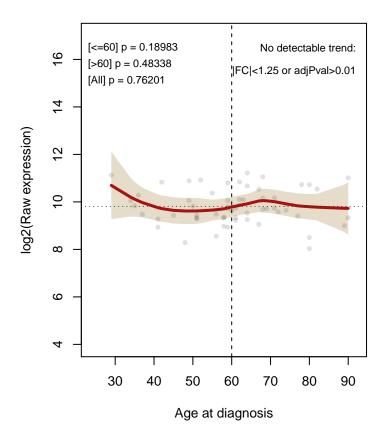
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BCL3 (non-ER binding)



BIRC5 (non-ER binding)

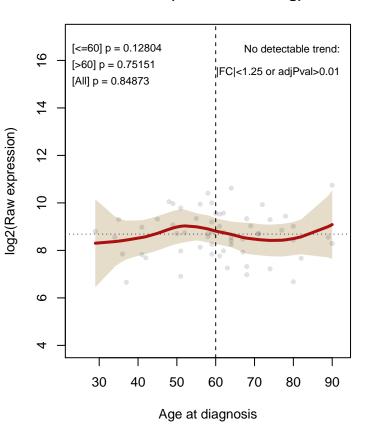
Age at diagnosis

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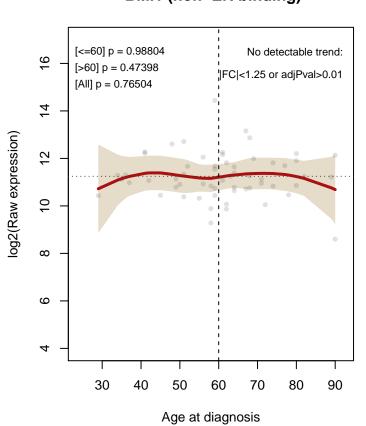
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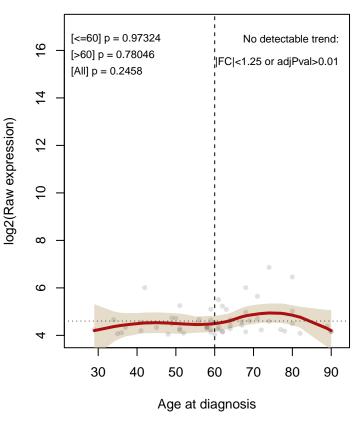


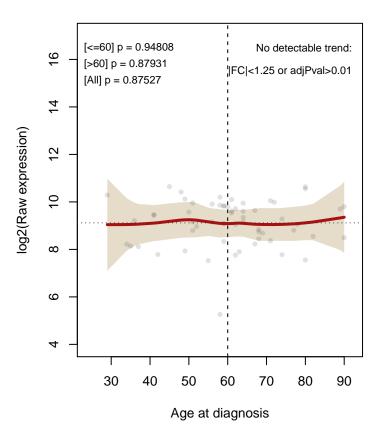
BMI1 (non-ER binding)





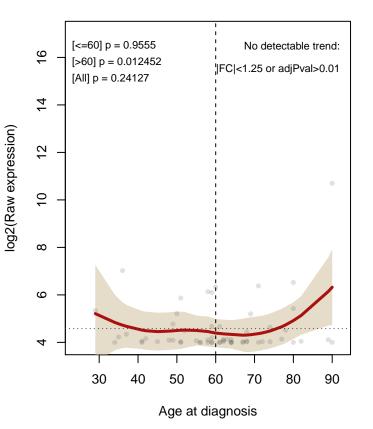
BRCA1 (non-ER binding)

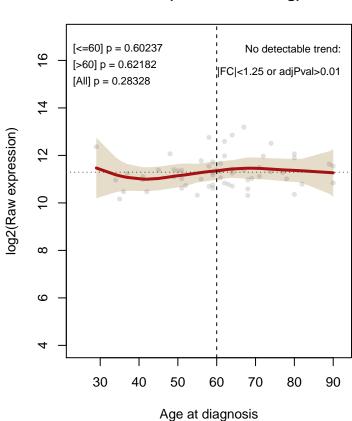




CA9 (non-ER binding)

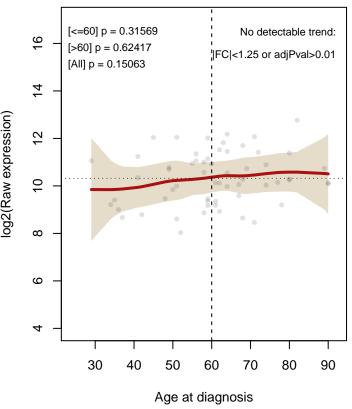
CBX1 (non-ER binding)





CBX2 (non-ER binding) [<=60] p = 0.34252No detectable trend: 16 16 [>60] p = 0.53166 FC|<1.25 or adjPval>0.01 [All] p = 0.931544 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

CBX4 (non-ER binding)



CBX6 (non-ER binding)

Age at diagnosis

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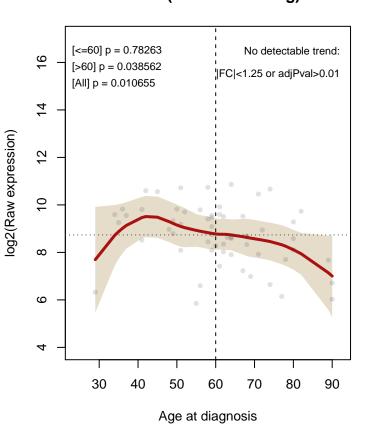
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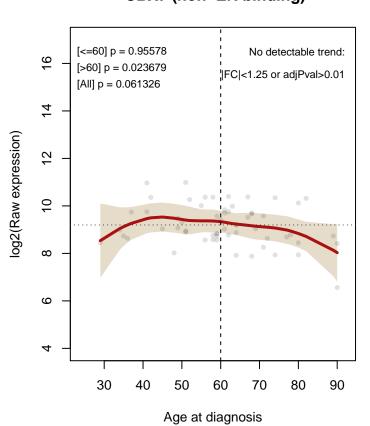
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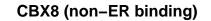
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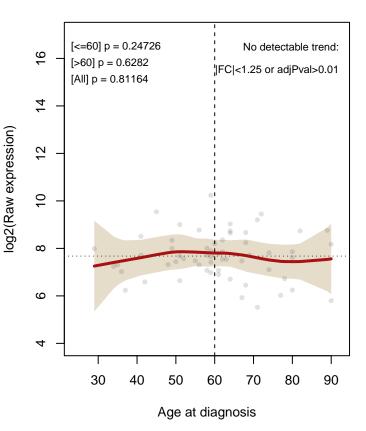


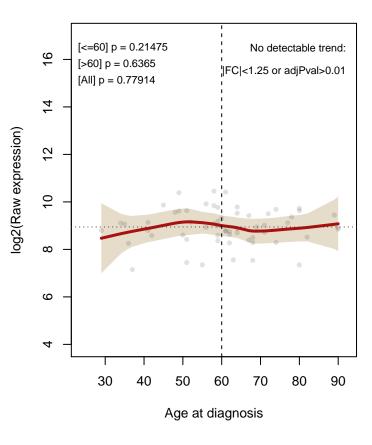
CBX7 (non-ER binding)





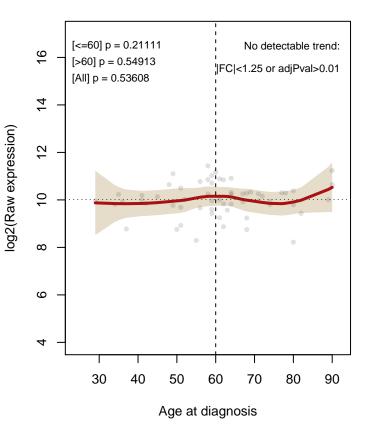
CCNA2 (non-ER binding)

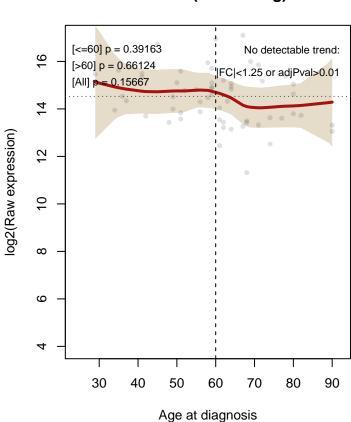


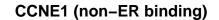


CCNB1 (non-ER binding)

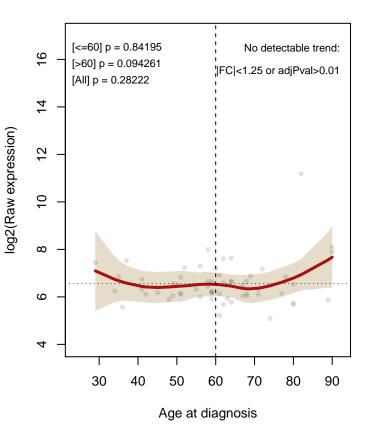
CCND1 (ER binding)

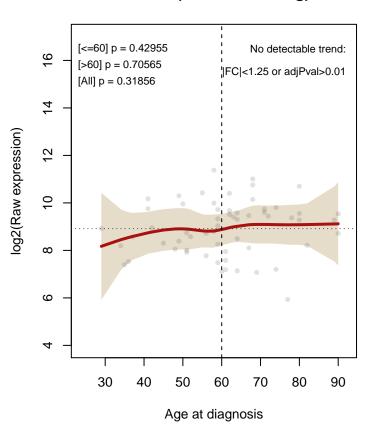






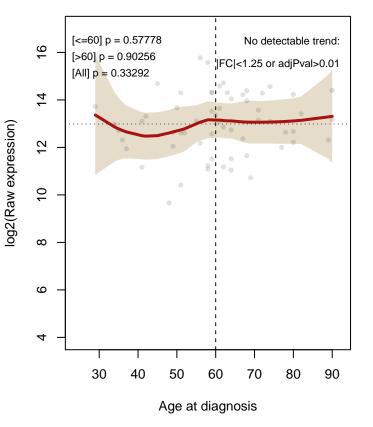
CD163 (non-ER binding)

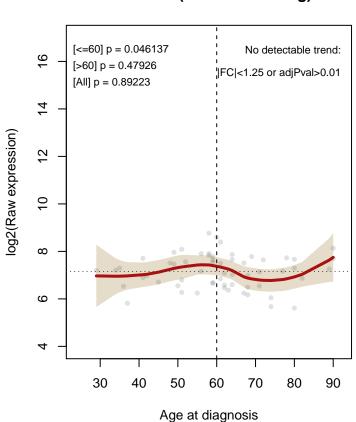


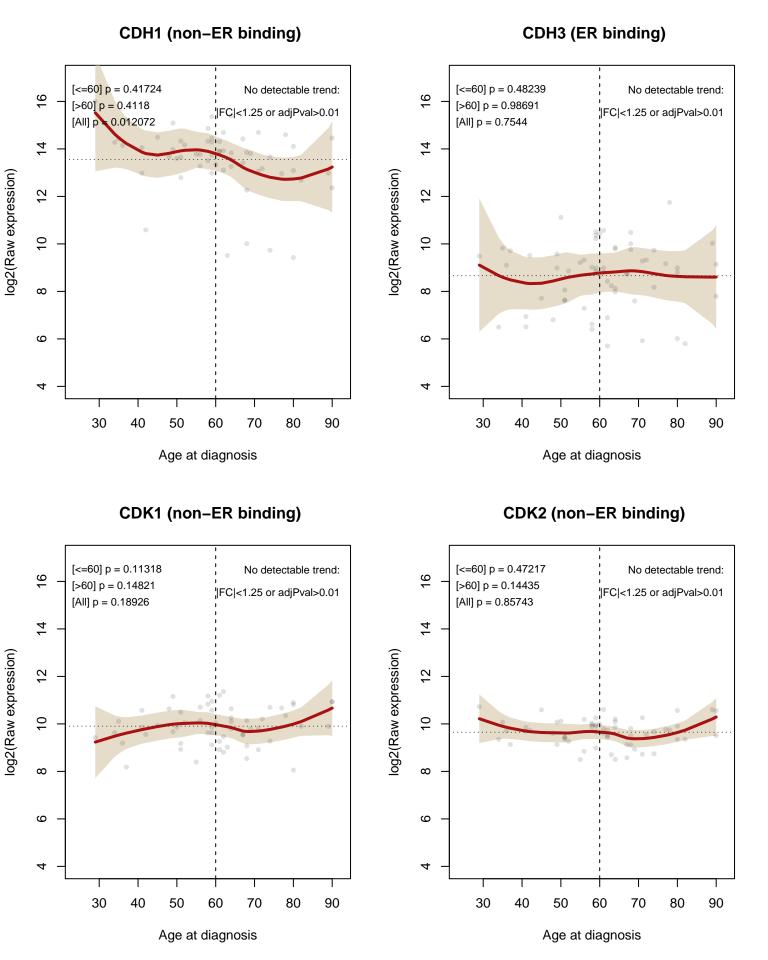


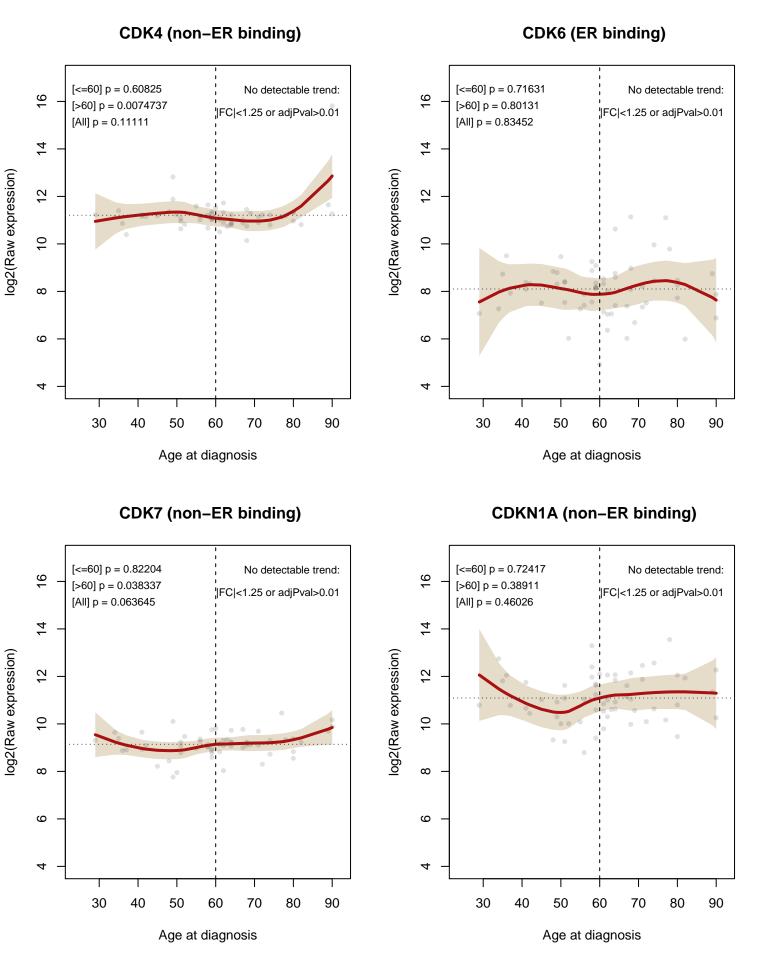
CD44 (non-ER binding)

CDC25C (non-ER binding)

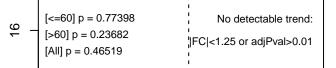


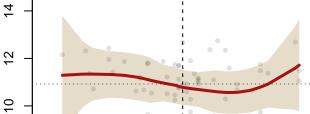






CDKN1B (non-ER binding)





log2(Raw expression)

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Age at diagnosis

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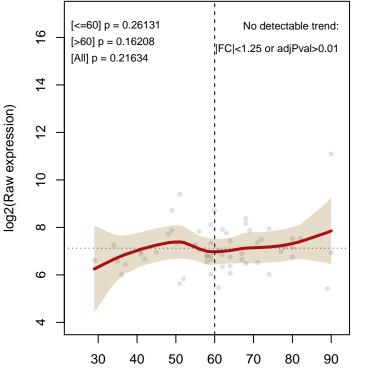
CDKN2A (non-ER binding)

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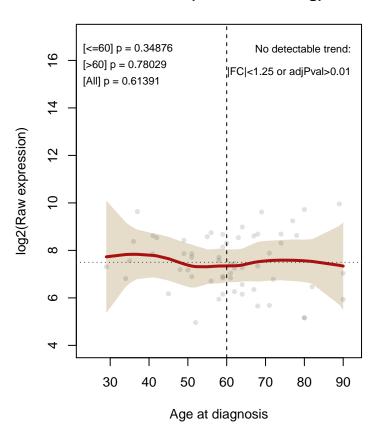
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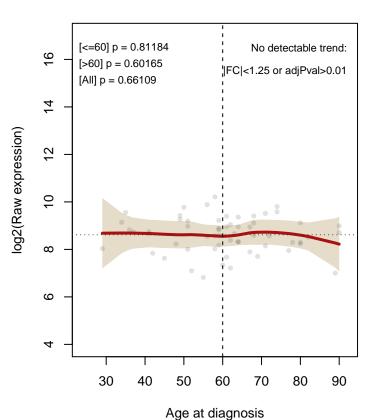


Age at diagnosis

CDKN1C (non-ER binding)

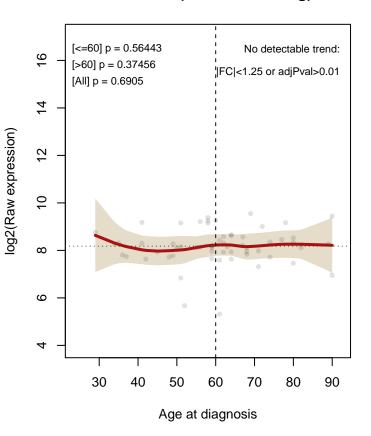


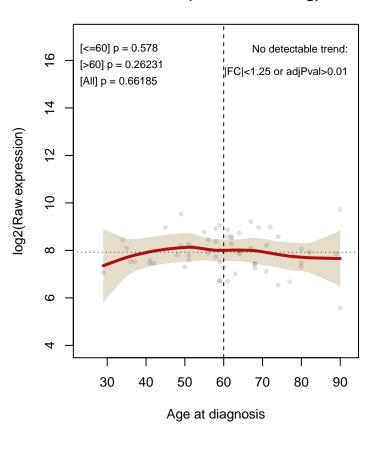
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

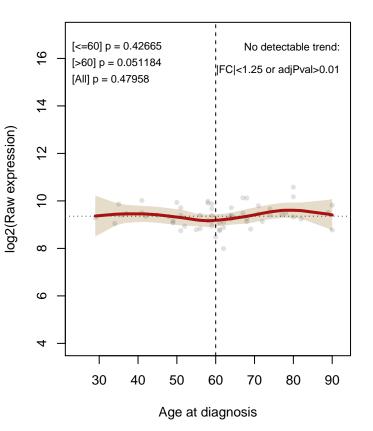
CDKN2D (non-ER binding)

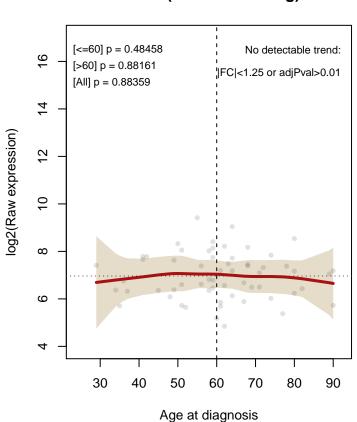




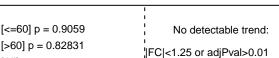
CHUK (non-ER binding)

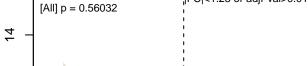
CIITA (non-ER binding)

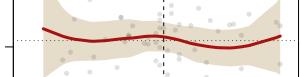


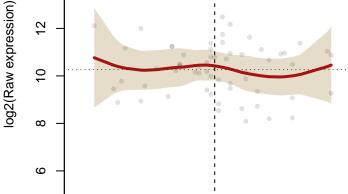


CLDN3 (non-ER binding)



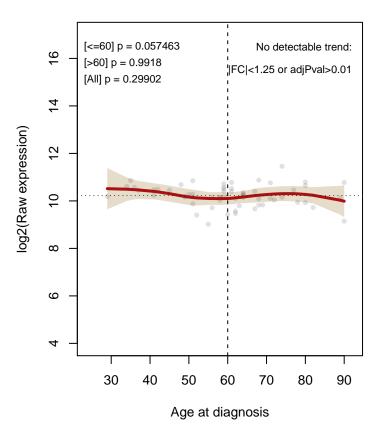




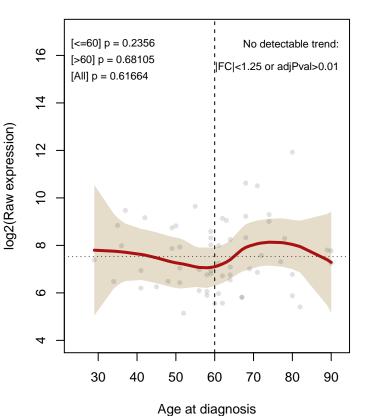


Age at diagnosis

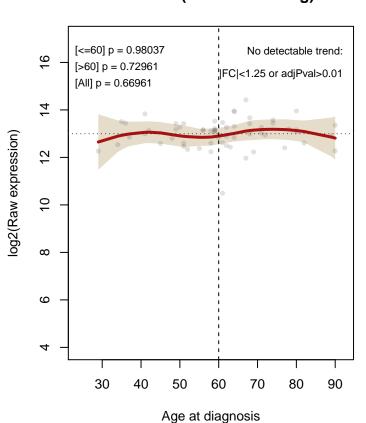
CREB1 (non-ER binding)



CRYAB (non-ER binding)

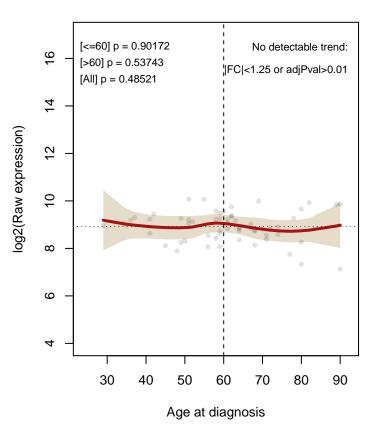


CTNNB1 (non-ER binding)

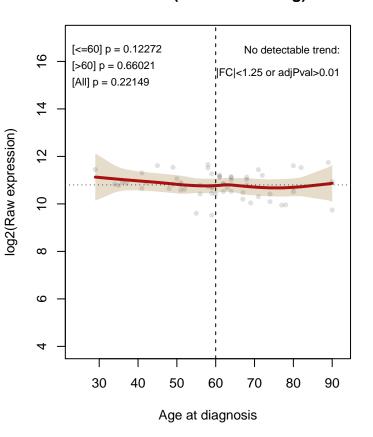


DLC1 (ER binding) [<=60] p = 0.44874No detectable trend: 16 [>60] p = 0.077541 FC|<1.25 or adjPval>0.01 [AII] p = 0.1864 log2(Raw expression) 12 10 ∞ 9 30 40 50 60 70 80 90 Age at diagnosis

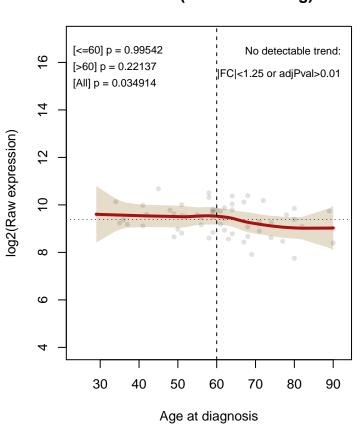
DMAP1 (non-ER binding)



DNMT1 (non-ER binding)

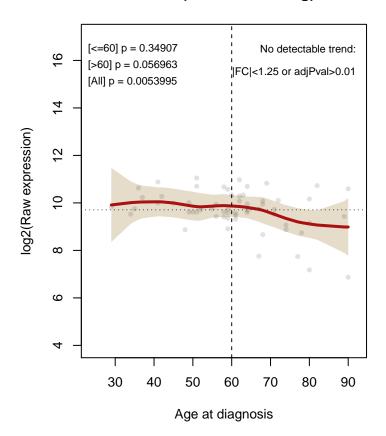


DNMT3A (non-ER binding)

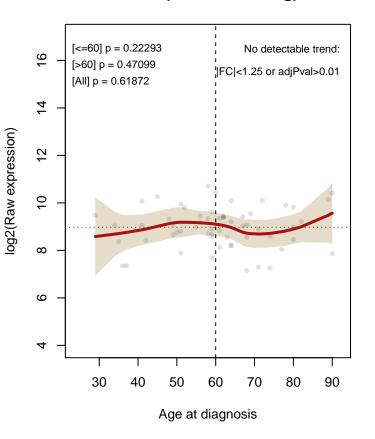


DNMT3B (non–ER binding) [<=60] p = 0.91426 [>60] p = 0.71911 [All] p = 0.75227 | FC|<1.25 or adjPval>0.01

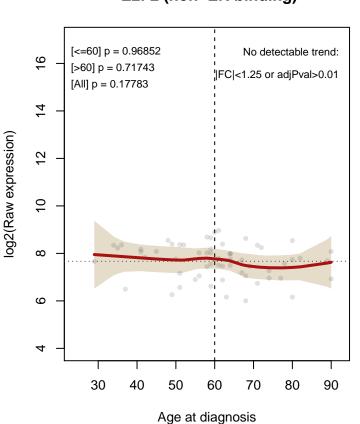
DVL1 (non-ER binding)

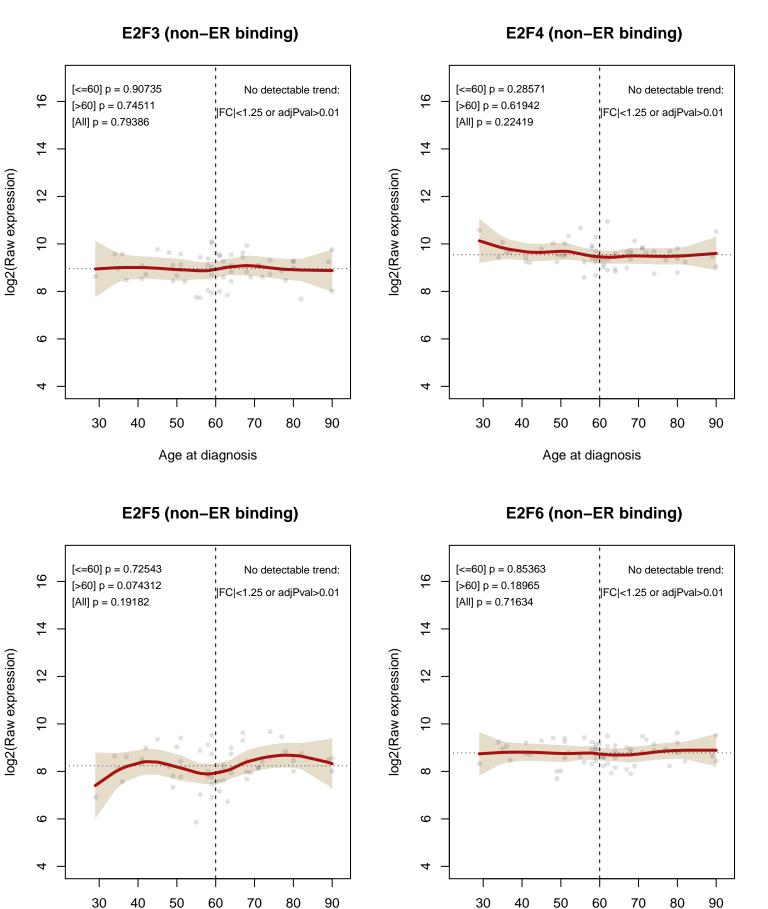


E2F1 (non-ER binding)



E2F2 (non-ER binding)





Age at diagnosis

Age at diagnosis

E2F7 (non-ER binding) E2F8 (non-ER binding) [<=60] p = 0.49786No detectable trend: [<=60] p = 0.9854No detectable trend: 16 16 [>60] p = 0.98164 [>60] p = 0.72999 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.39796[All] p = 0.455564 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 **EED (non-ER binding)** EGFR (non-ER binding) [<=60] p = 0.12432No detectable trend: [<=60] p = 0.4749No detectable trend: 16 16 [>60] p = 0.61982 [>60] p = 0.9262 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.84381[All] p = 0.103954 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞

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Age at diagnosis

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Age at diagnosis

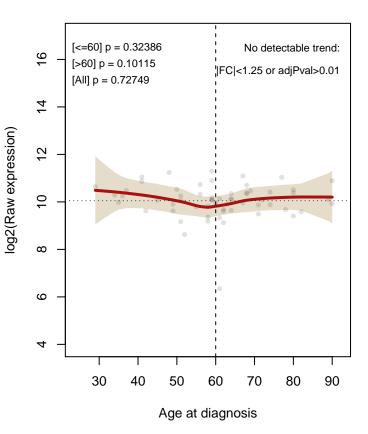
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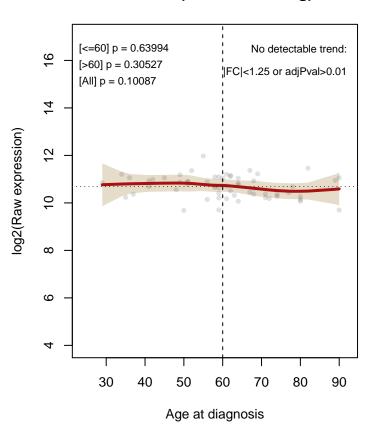
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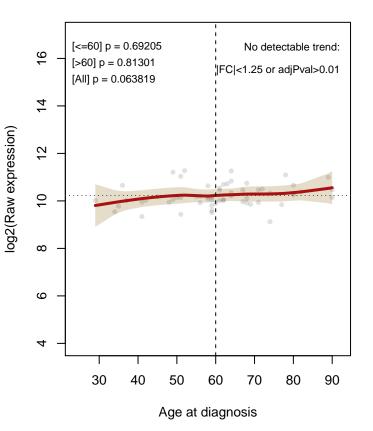
EHMT2 (non-ER binding)

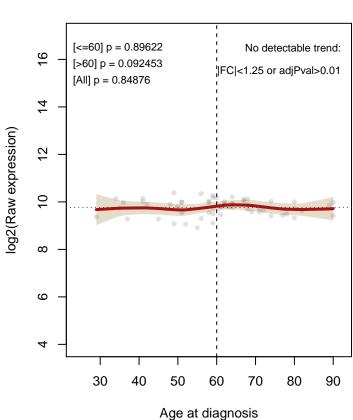




ELAC2 (non-ER binding)

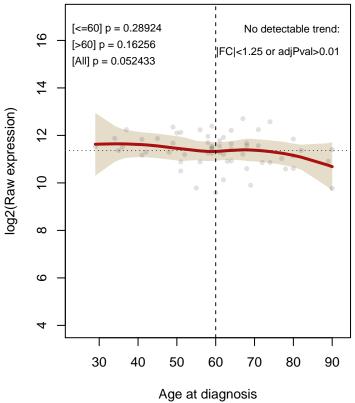
ELK1 (non-ER binding)

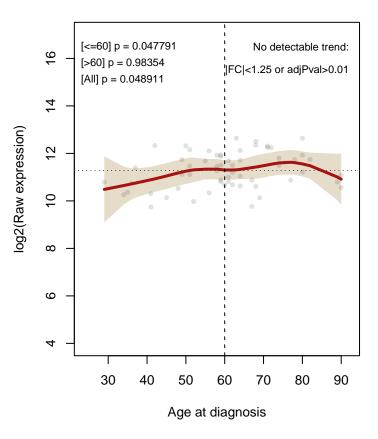




EP300 (non-ER binding)

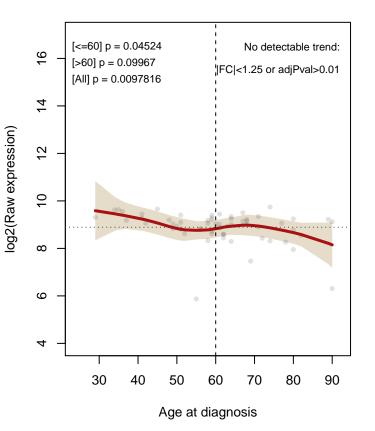
EPAS1 (non-ER binding)

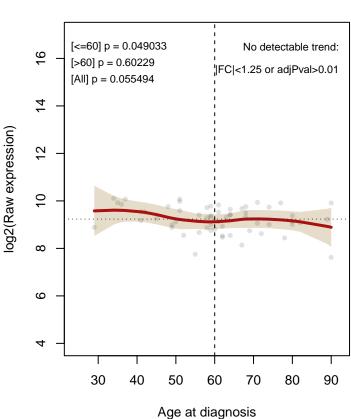




EPC1 (non-ER binding)

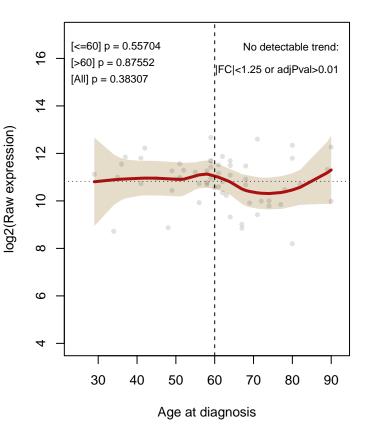
EPC2 (non-ER binding)

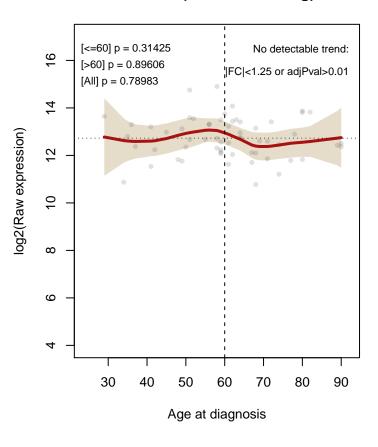






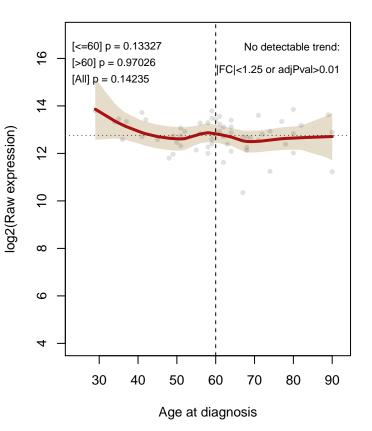
ERBB2 (non-ER binding)

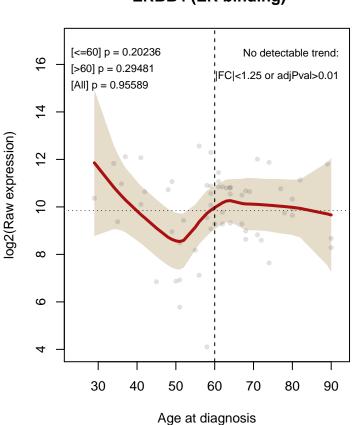


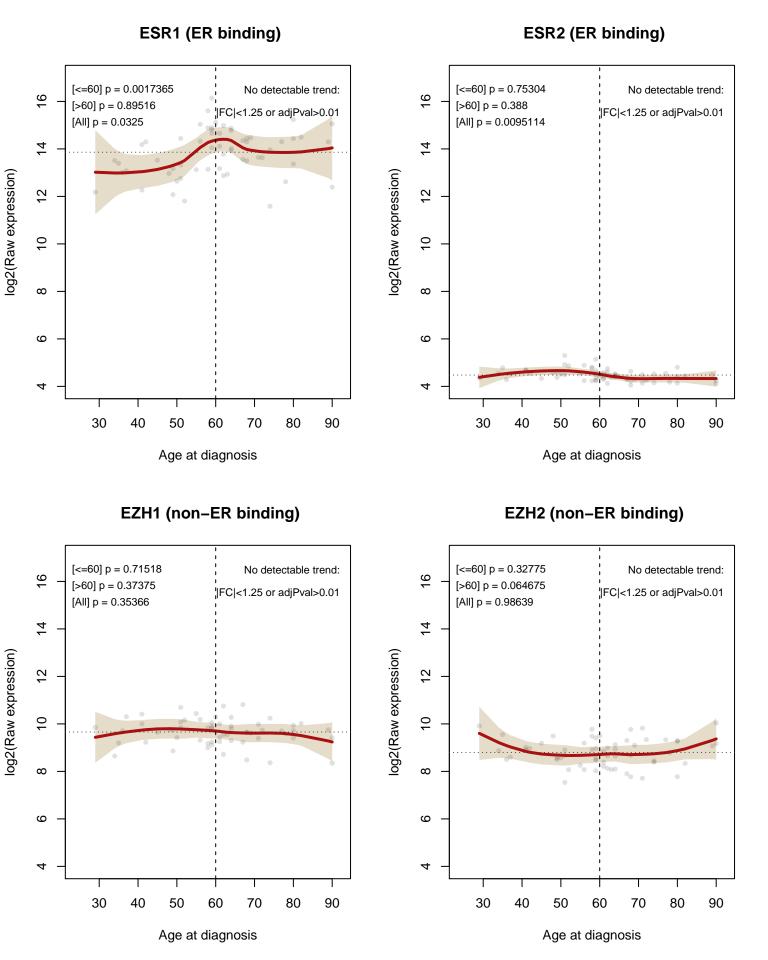


ERBB3 (non-ER binding)

ERBB4 (ER binding)







FOSL1 (non-ER binding) FOS (non-ER binding) [<=60] p = 0.77303No detectable trend: [<=60] p = 0.74227No detectable trend: 16 16 [>60] p = 0.63052 [>60] p = 0.57949 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.16387[AII] p = 0.0985054 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **FOXC1 (ER binding)** FOXA1 (ER binding) [<=60] p = 0.85399No detectable trend: [<=60] p = 0.065784No detectable trend: 16 16 [>60] p = 0.50193 [>60] p = 0.83274 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.85151[All] p = 0.0639194 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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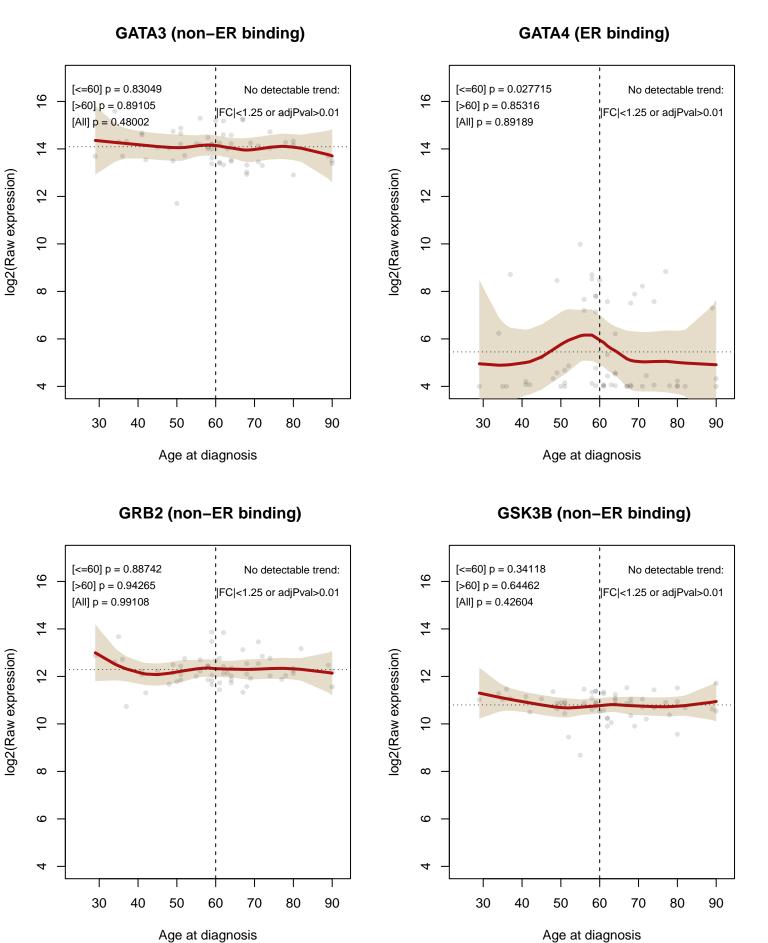
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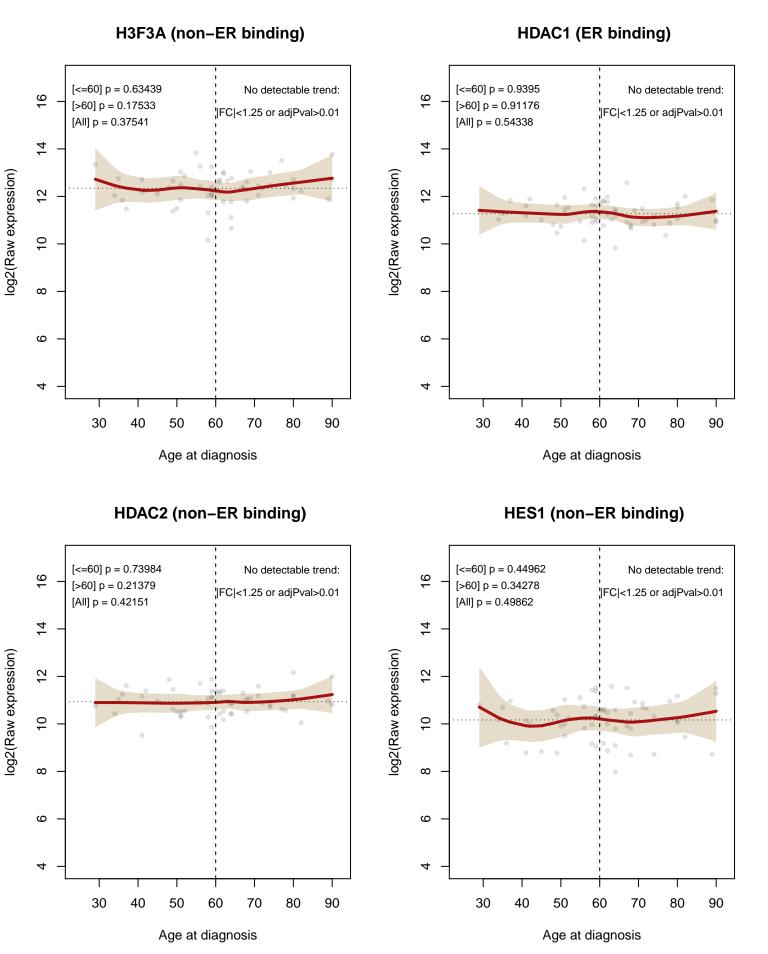
Age at diagnosis

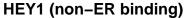
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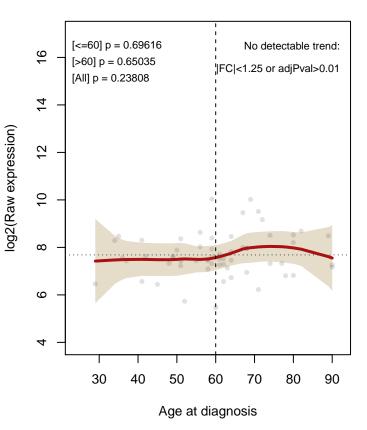
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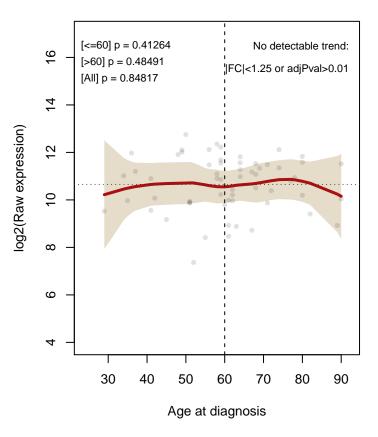






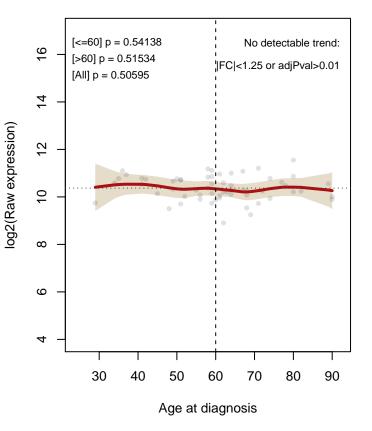
nding) HIF1A (non–ER binding)

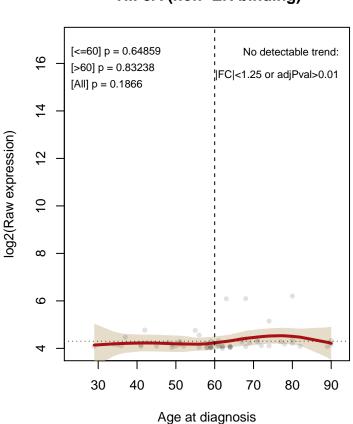




HIF1AN (non-ER binding)

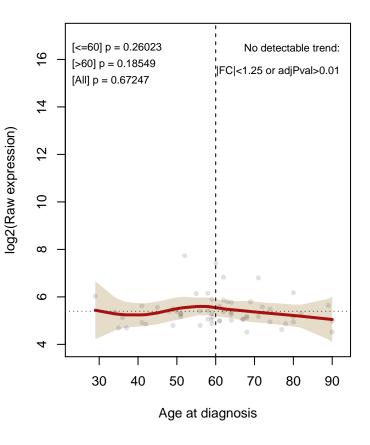
HIF3A (non-ER binding)

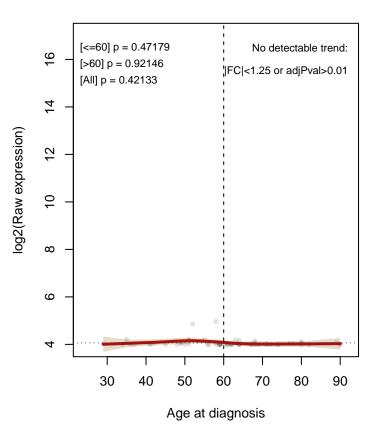




HNF1A (non-ER binding)

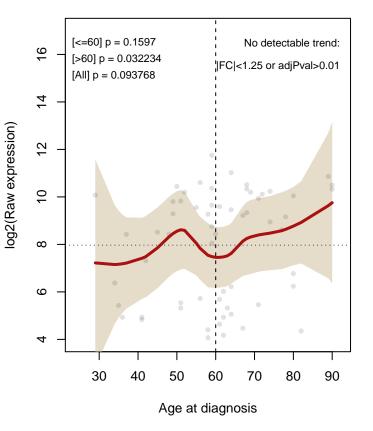
HNF1B (non-ER binding)

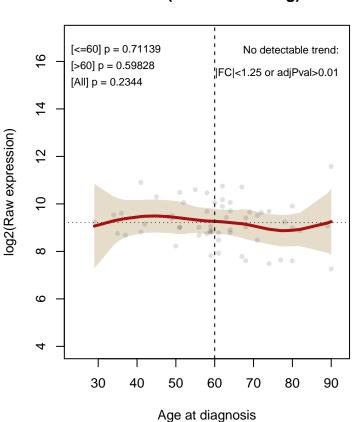




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) [<=60] p = 0.77089No detectable trend: 16 [>60] p = 0.41974 FC|<1.25 or adjPval>0.01 [All] p = 0.868284 log2(Raw expression) 12 10

ω

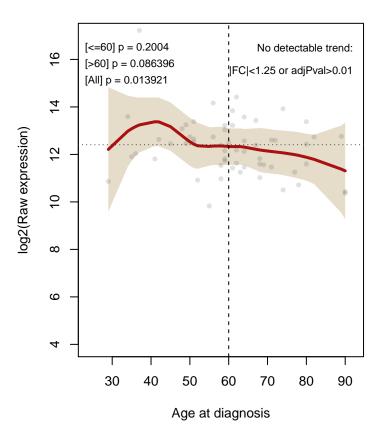
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IGF1R (ER binding)



IGFBP2 (non-ER binding)

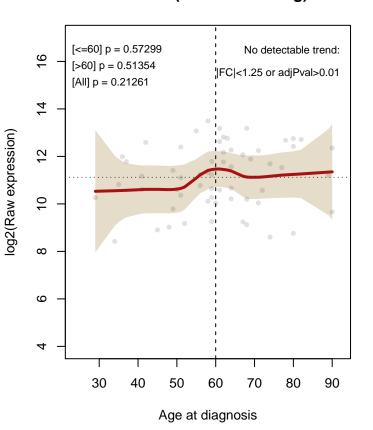
Age at diagnosis

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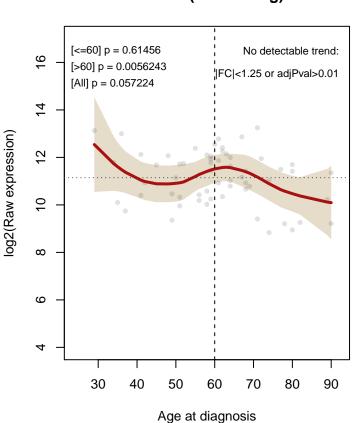
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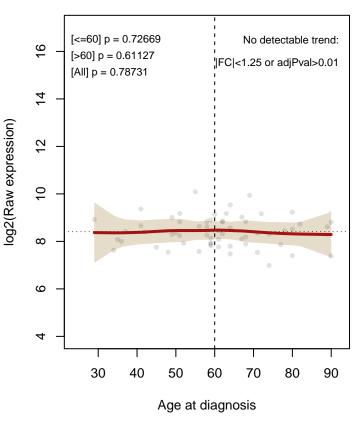


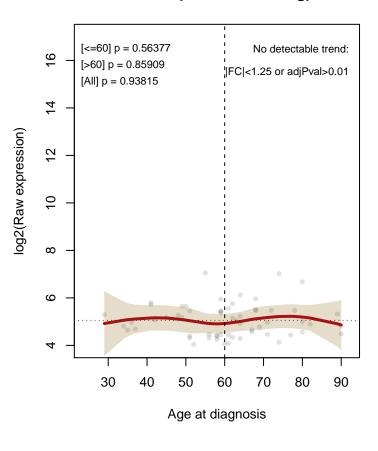
IKBKB (ER binding)





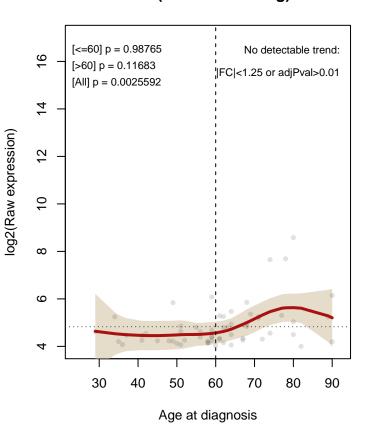
IL2RA (non-ER binding)

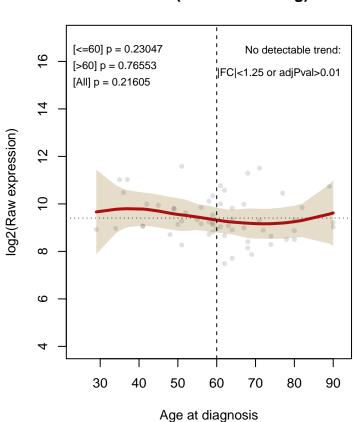


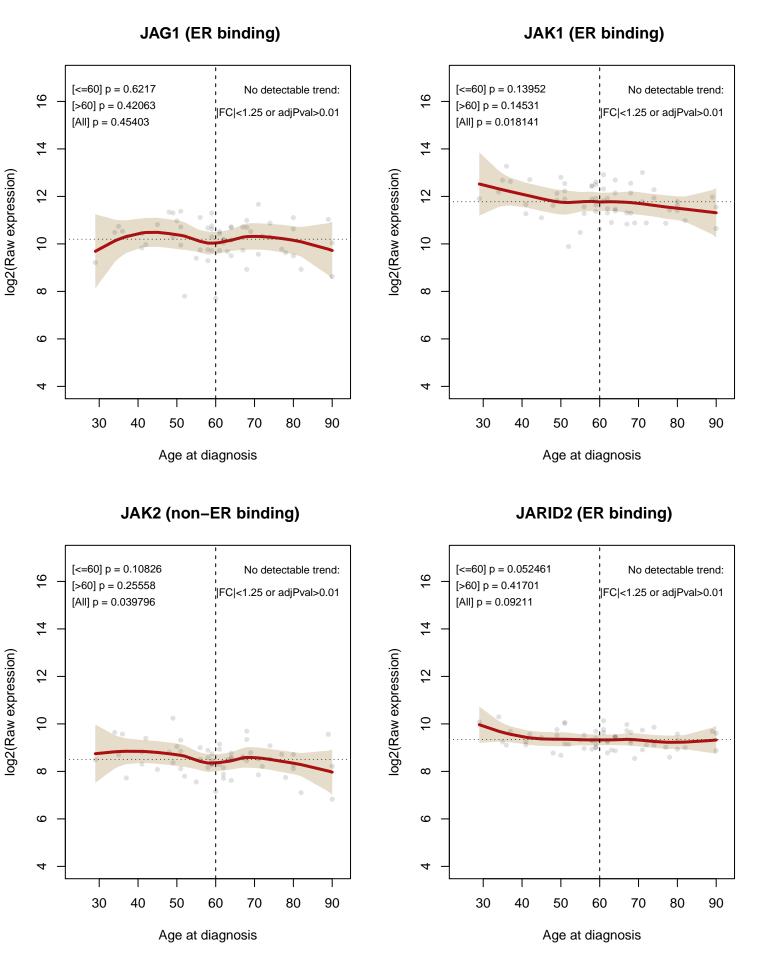


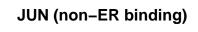
IL6 (non-ER binding)

INPP4B (non-ER binding)

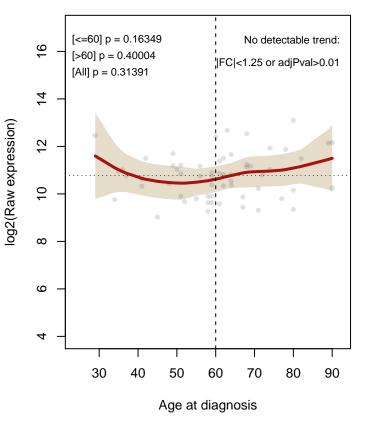


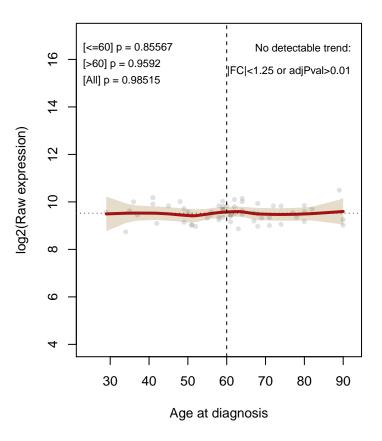






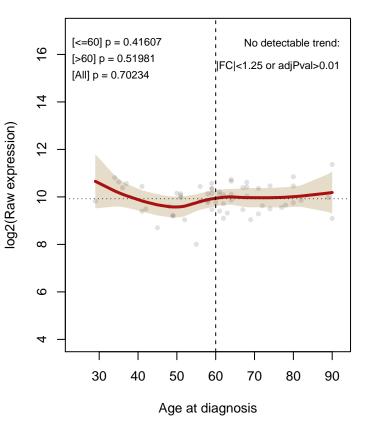
KDM2B (non-ER binding)

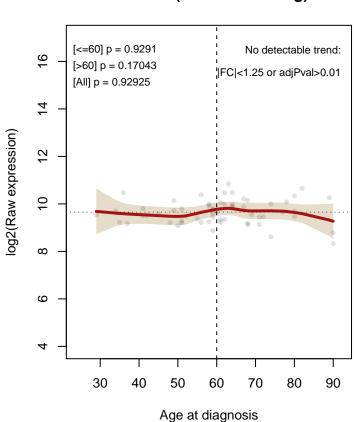




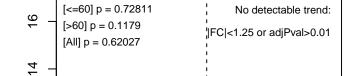
KDM6A (non-ER binding)

KDM6B (non-ER binding)



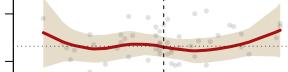








log2(Raw expression)



∞ 9

50

30

40

60

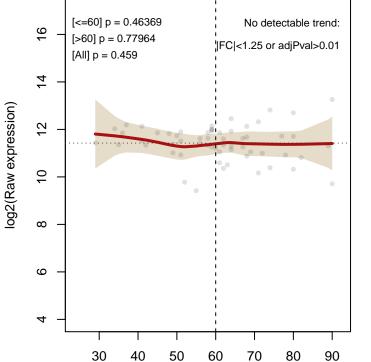
Age at diagnosis

KMT2C (non-ER binding)

70

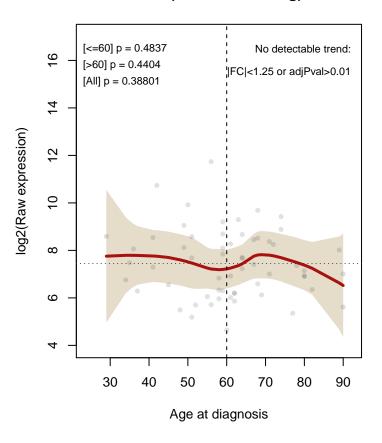
80

90

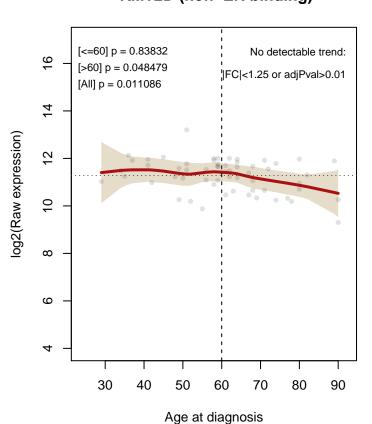


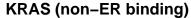
Age at diagnosis

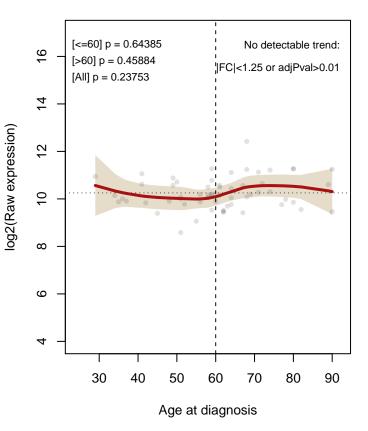
KIT (non-ER binding)

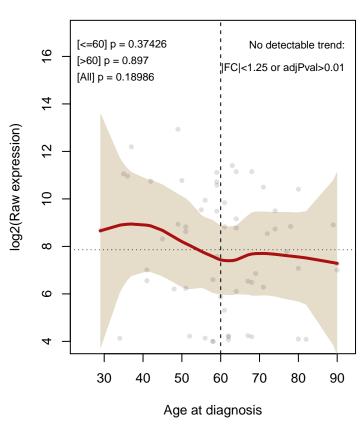


KMT2D (non-ER binding)









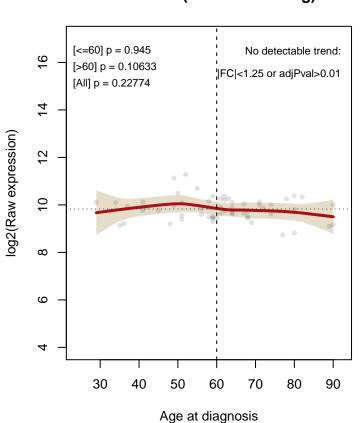
KRT5 (non-ER binding)

L3MBTL1 (non-ER binding)

[<=60] p = 0.58678No detectable trend: 16 [>60] p = 0.9387 FC|<1.25 or adjPval>0.01 [AII] p = 0.826554 log2(Raw expression) 12 10 ∞ 9 30 40 50 60 70 80 90

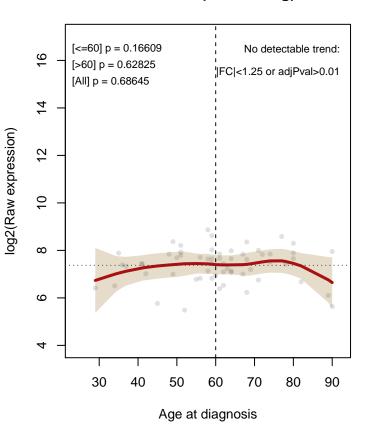
Age at diagnosis

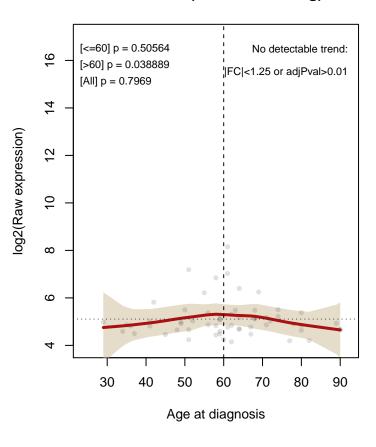
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

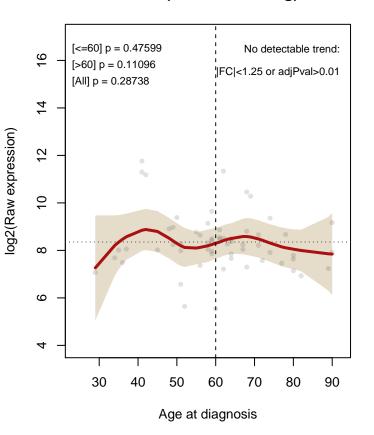
L3MBTL4 (non-ER binding)

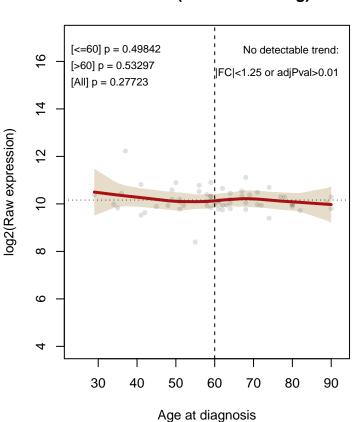




LEF1 (non-ER binding)

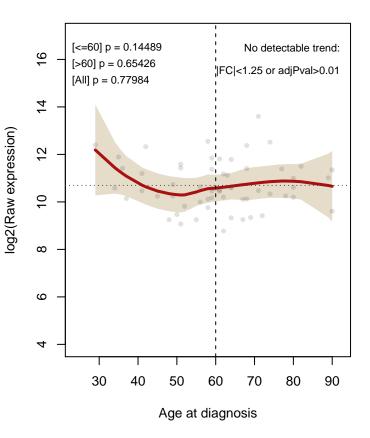
MAP2K1 (non-ER binding)

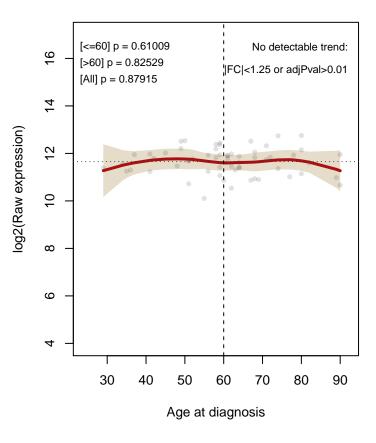






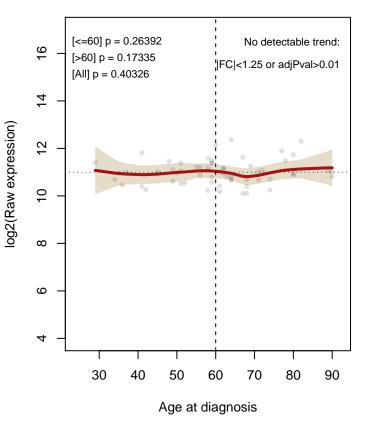
MAPK1 (non-ER binding)

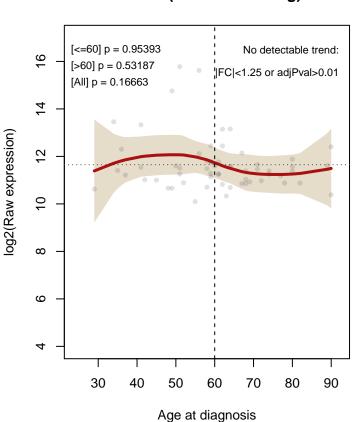




MAPK3 (non-ER binding)

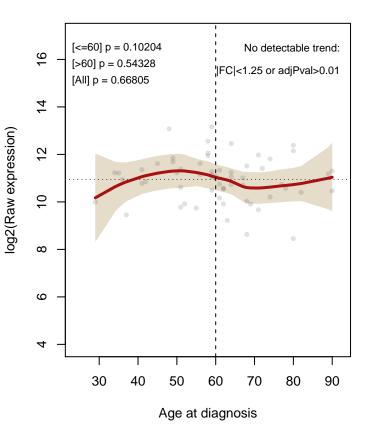
MDM2 (non-ER binding)

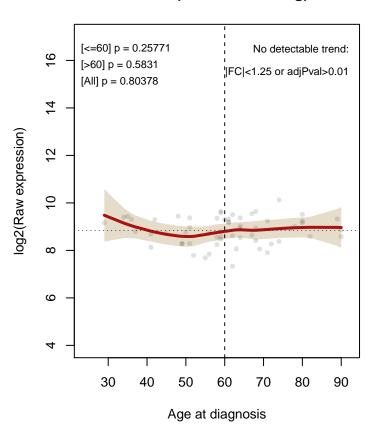






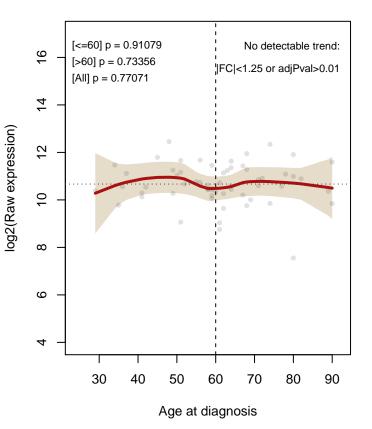
MTF2 (non-ER binding)

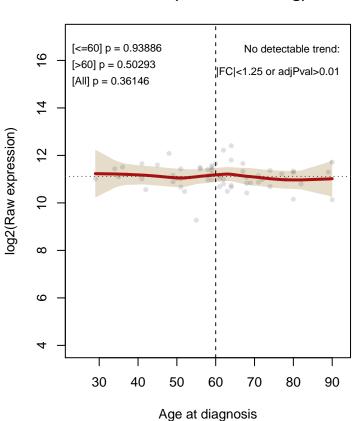




MYC (non-ER binding)

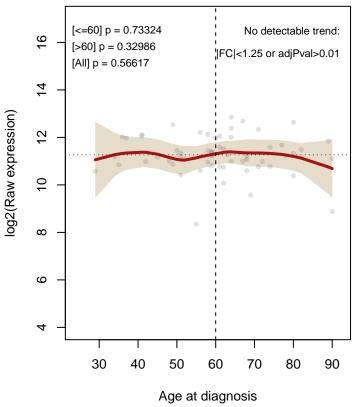
NCOA6 (non-ER binding)

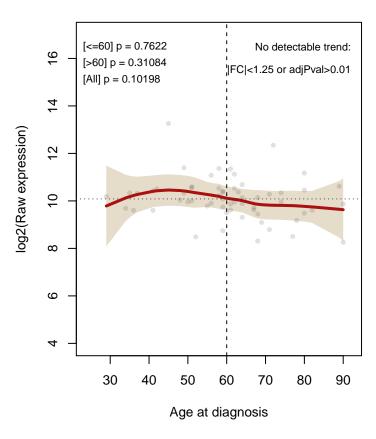




NCOR1 (non-ER binding)

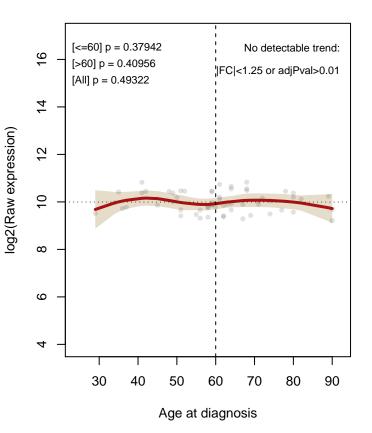
NES (non-ER binding)

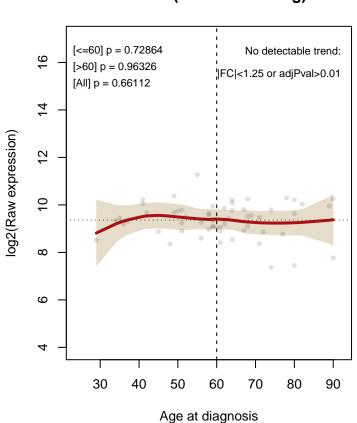




NFKB1 (non-ER binding)

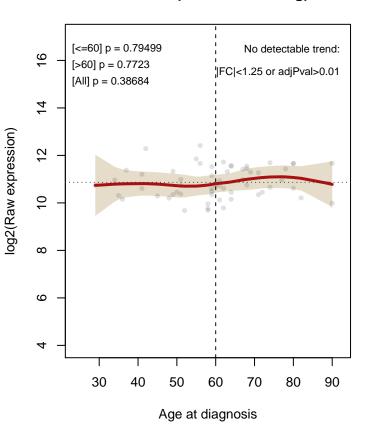
NFKB2 (non-ER binding)

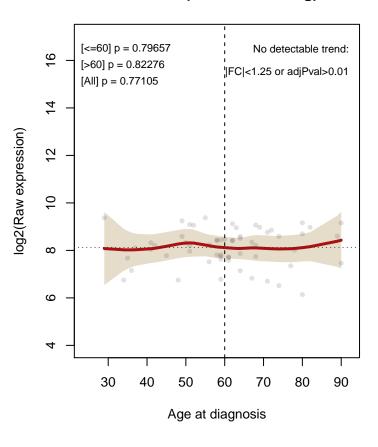




NFKBIA (non-ER binding)

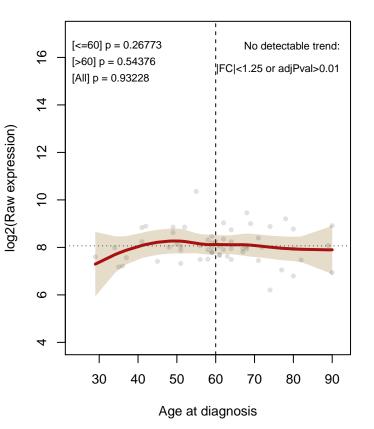
NFKBIB (non-ER binding)

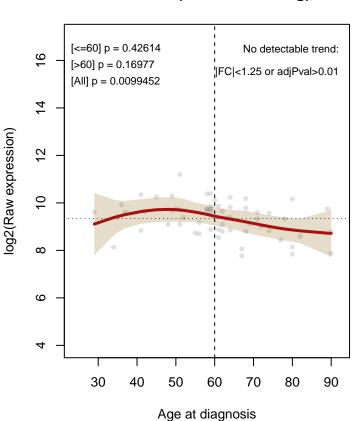




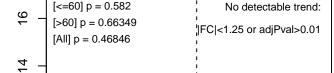
NFKBIE (non-ER binding)

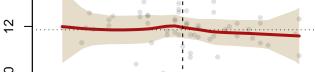
NOTCH1 (non-ER binding)





NOTCH2 (non-ER binding)





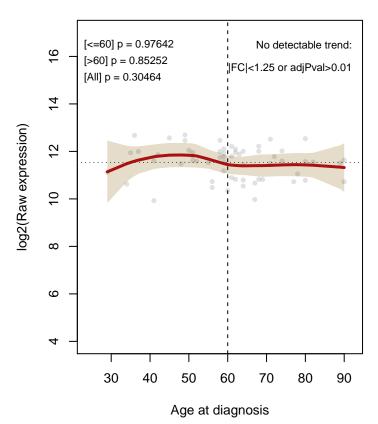
10 ω

log2(Raw expression)

9

30 40 50 60 70 Age at diagnosis

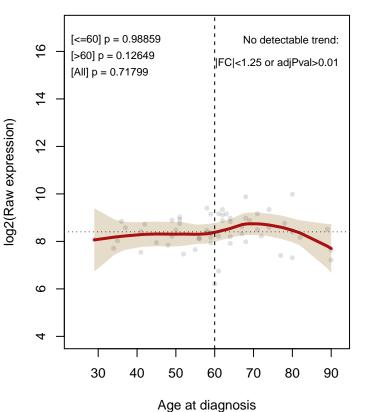
NOTCH3 (non-ER binding)



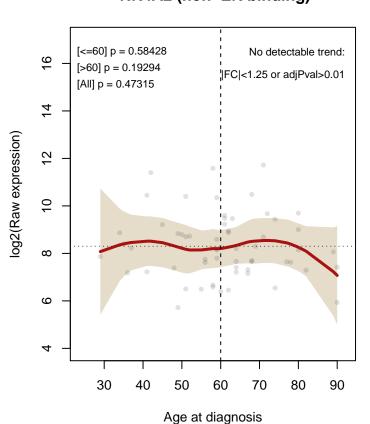
NOTCH4 (non-ER binding)

80

90

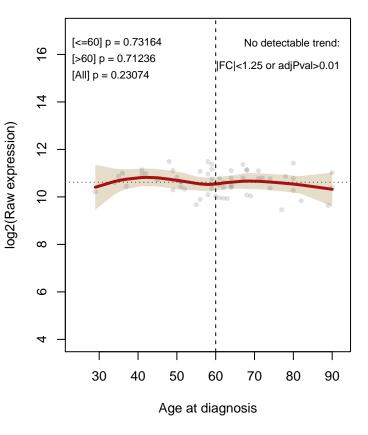


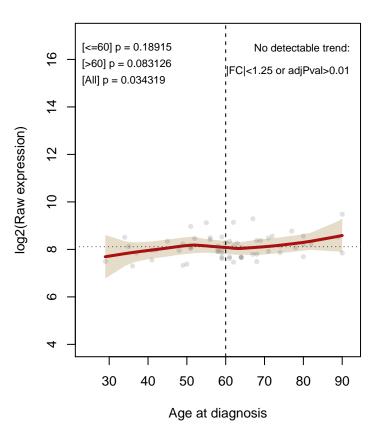
NR4A2 (non-ER binding)





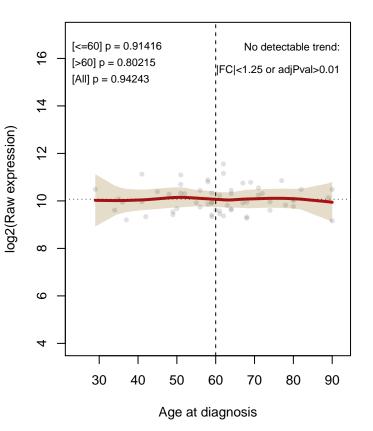
PCGF1 (non-ER binding)

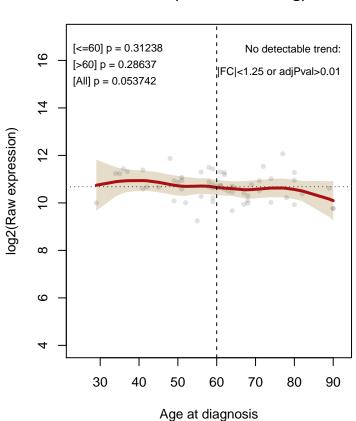




PCGF2 (non-ER binding)

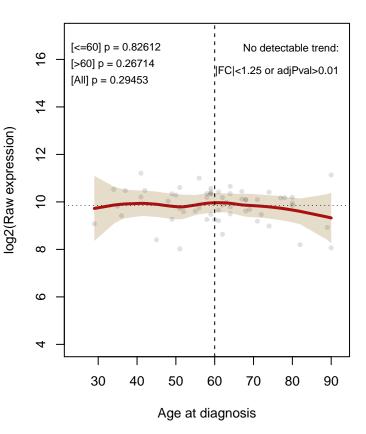
PCGF3 (non-ER binding)

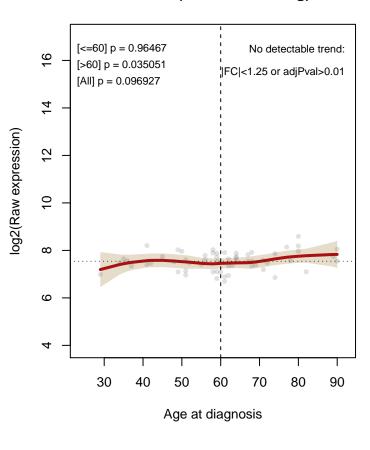






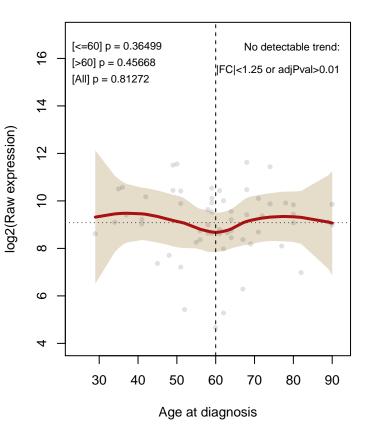
PCGF6 (non-ER binding)

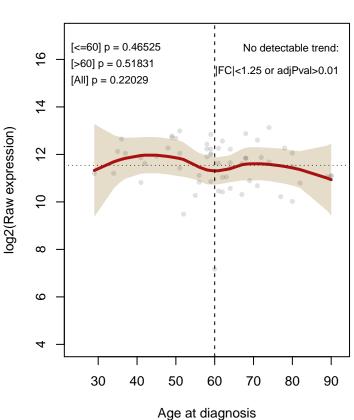




PDGFRA (non-ER binding)

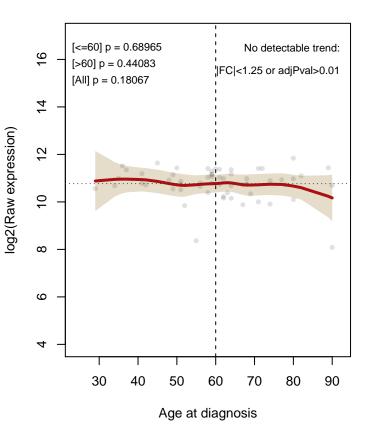
PDGFRB (non-ER binding)

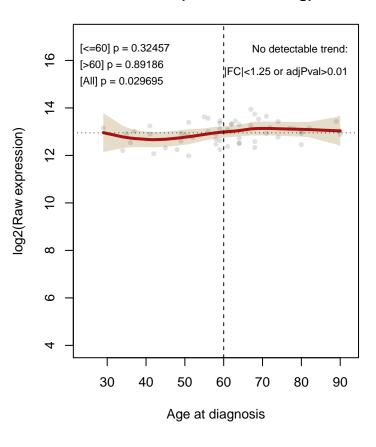






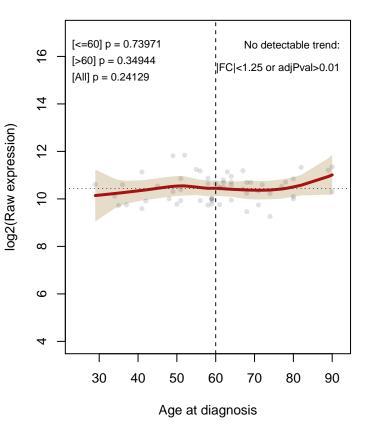
PEBP1 (non-ER binding)

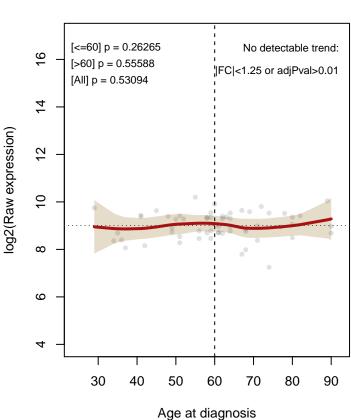


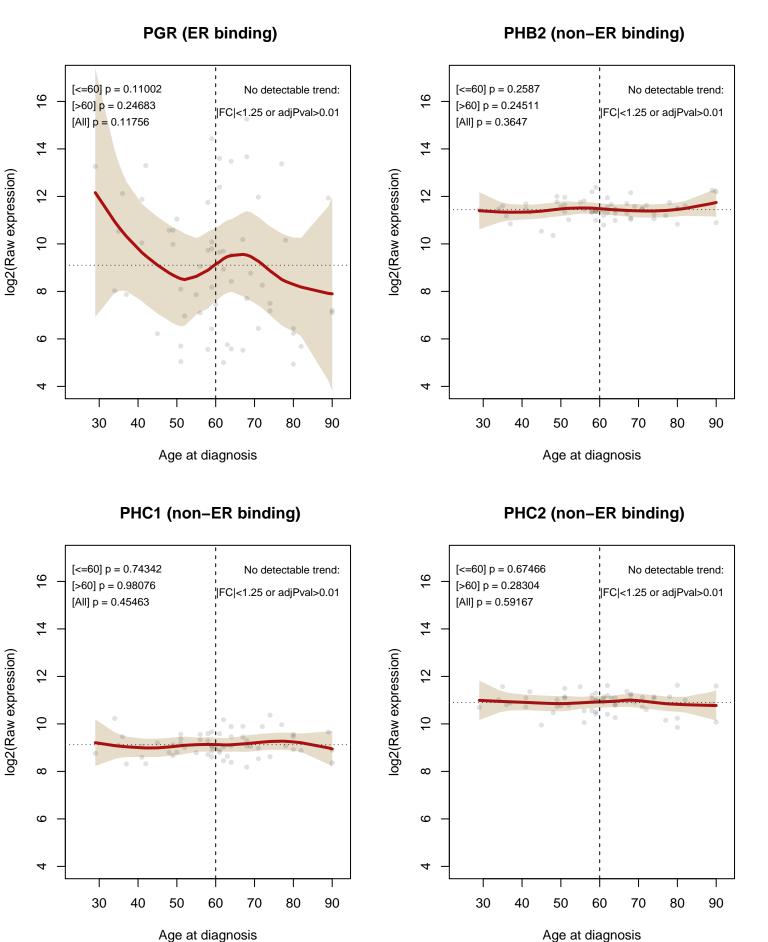


PELP1 (non-ER binding)

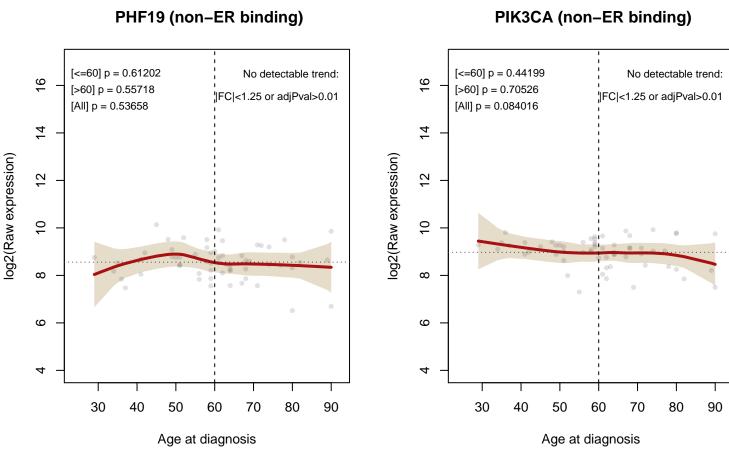
PGP (non-ER binding)



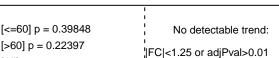




PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.73179No detectable trend: [<=60] p = 0.78378No detectable trend: 16 16 [>60] p = 0.98326 [>60] p = 0.38314 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.67113[AII] p = 0.92784 4 log2(Raw expression) log2(Raw expression) 12 12 10 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 = 0.61202No detectable trend: [<=60] p = 0.44199No detectable trend: 16 16 [>60] p = 0.55718 [>60] p = 0.70526 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.53658[All] p = 0.0840164 4

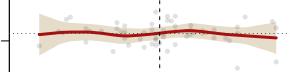


PIP5K1C (non-ER binding)





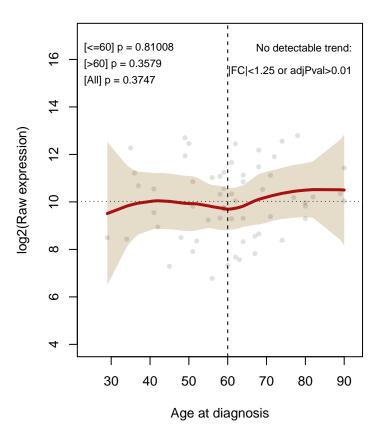
log2(Raw expression)





Age at diagnosis

PLAU (non-ER binding)

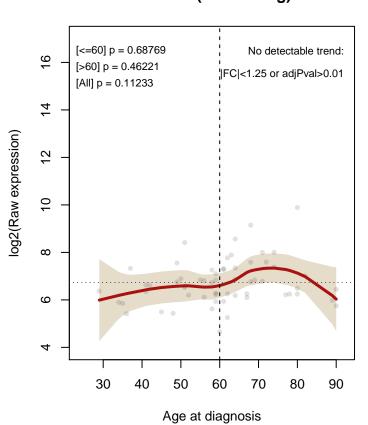


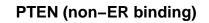
PODXL (non-ER binding)

[<=60] p = 0.98562No detectable trend: [>60] p = 0.082931 FC|<1.25 or adjPval>0.01 [All] p = 0.60767log2(Raw expression) ω

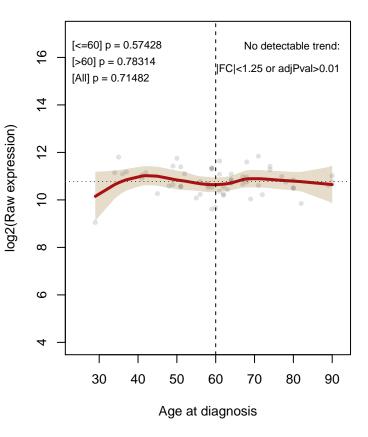
Age at diagnosis

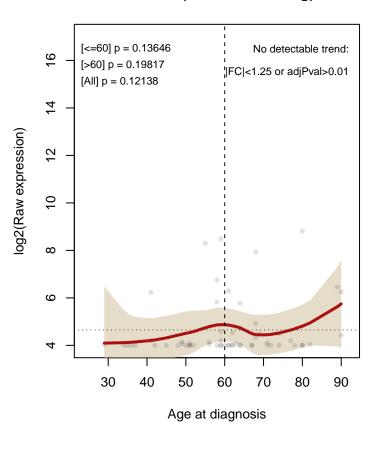
PPARG (ER binding)





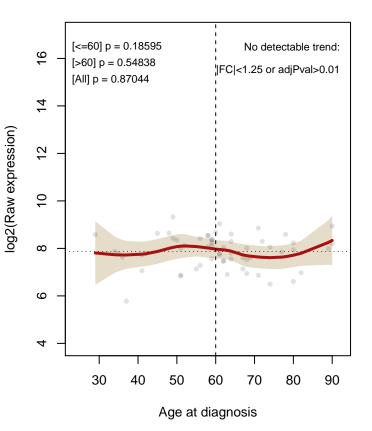
PYDC1 (non-ER binding)

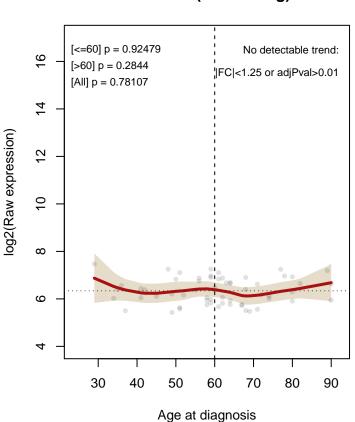




RAD51 (non-ER binding)

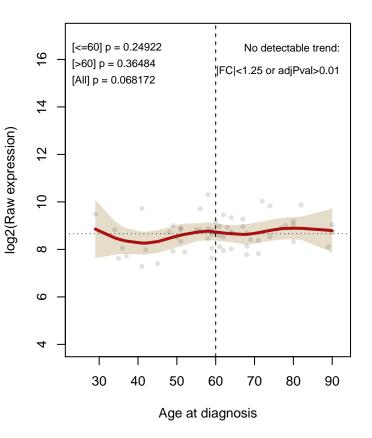
RAD51B (ER binding)

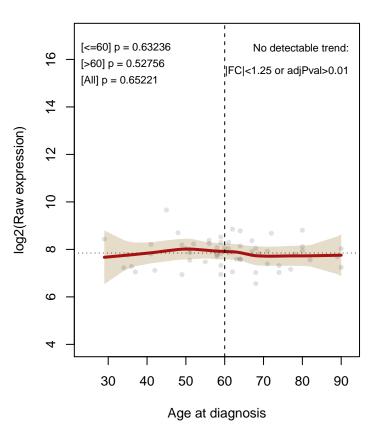




RAD51C (non-ER binding)

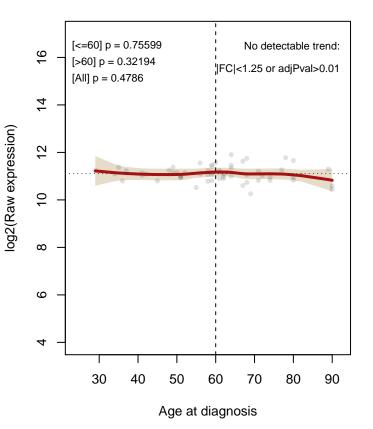
RAD51D (non-ER binding)

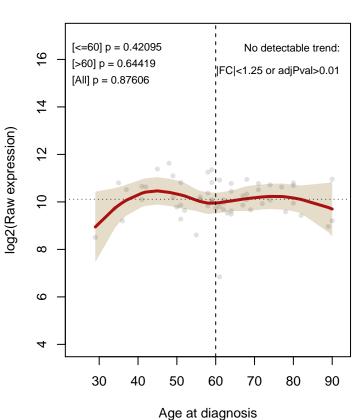


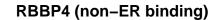


RAF1 (non-ER binding)

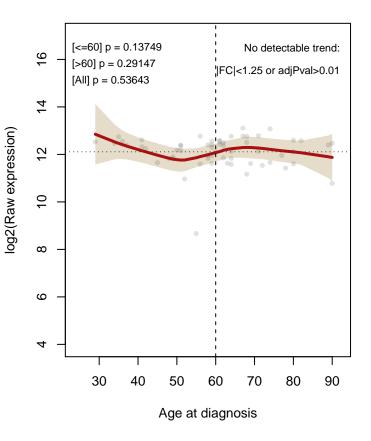
RB1 (non-ER binding)

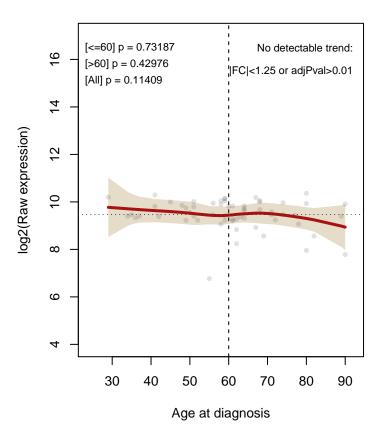






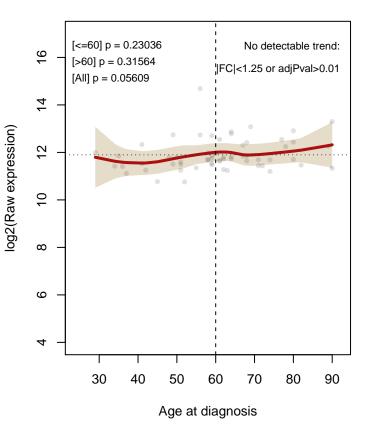
RBBP5 (non-ER binding)

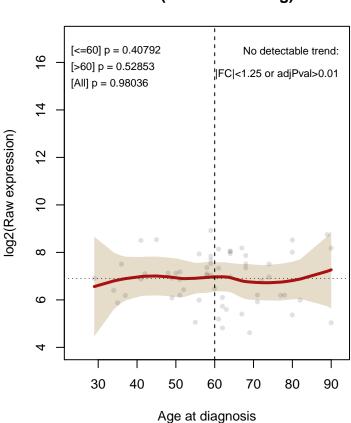


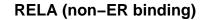


RBBP7 (non-ER binding)

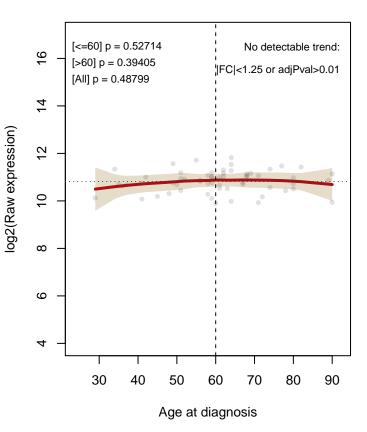
REL (non-ER binding)

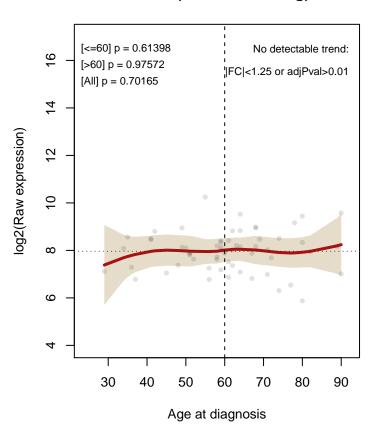






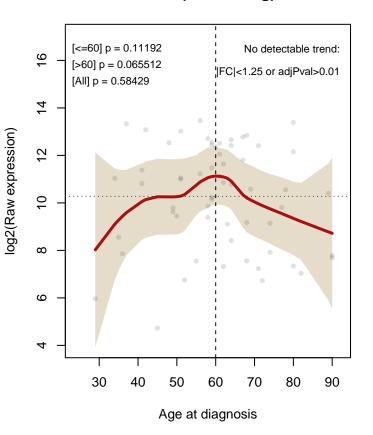
RELB (non-ER binding)

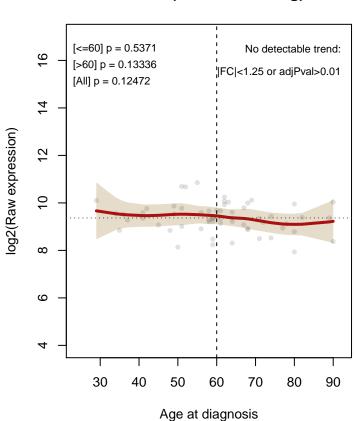




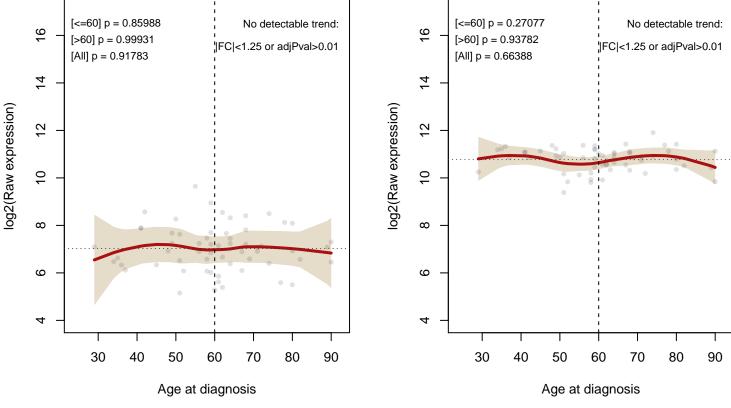
RET (ER binding)

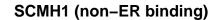
RING1 (non-ER binding)



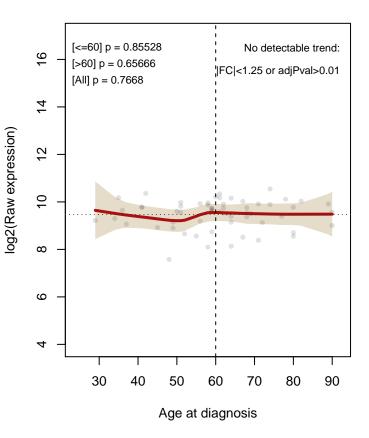


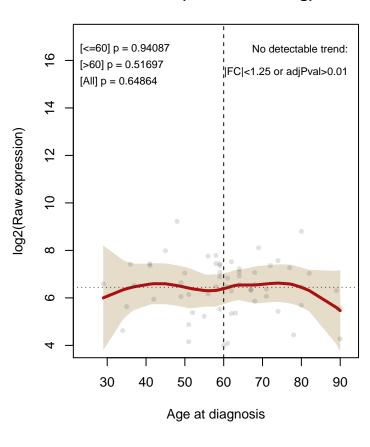
RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.59694No detectable trend: [<=60] p = 0.010356 No detectable trend: 16 16 [>60] p = 0.4497 [>60] p = 0.73913 FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.87655[All] p = 0.0406124 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.85988No detectable trend: [<=60] p = 0.2707716 16 [>60] p = 0.99931 [>60] p = 0.93782 FC|<1.25 or adjPval>0.01 [AII] p = 0.66388[All] p = 0.917834 4





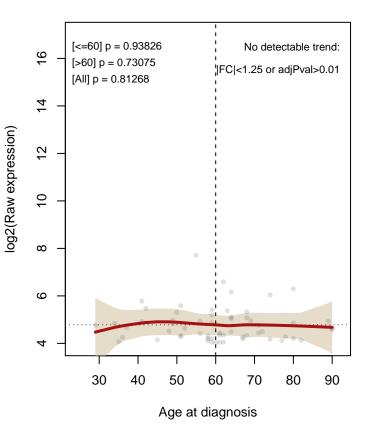
SCML2 (non-ER binding)

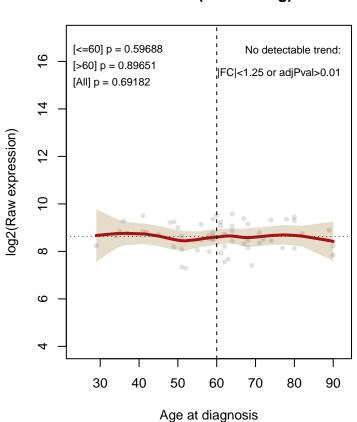


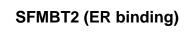


SCML4 (non-ER binding)

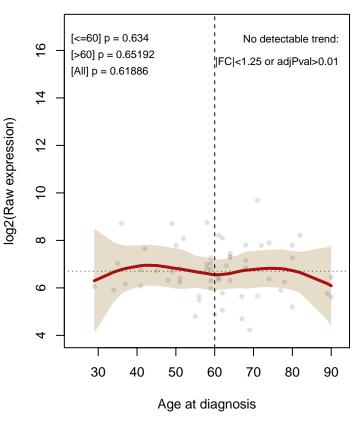
SFMBT1 (ER binding)

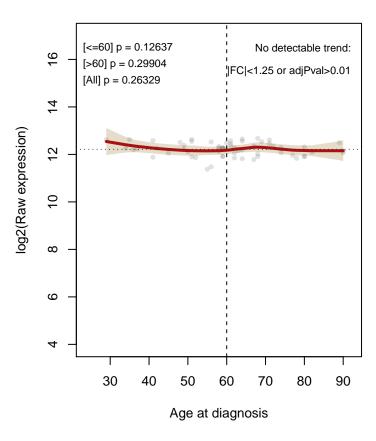






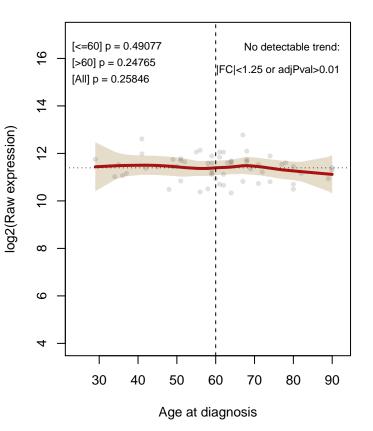
SFPQ (non-ER binding)

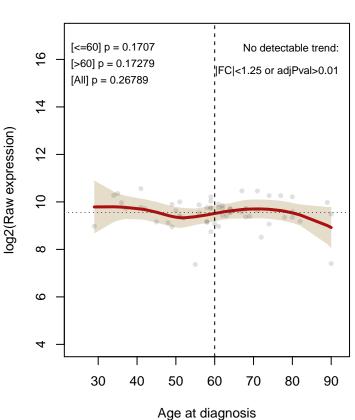




SHC1 (non-ER binding)

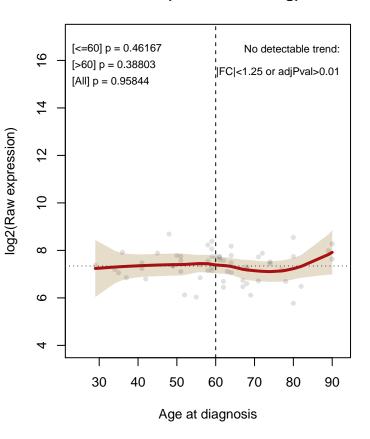
SIRT1 (non-ER binding)

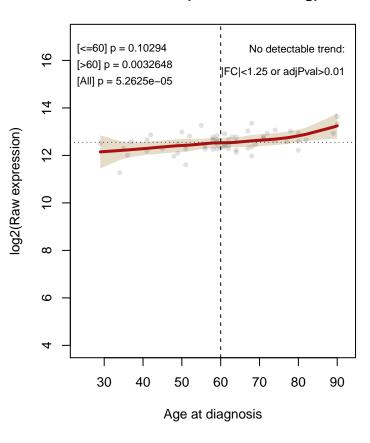




SKP2 (non-ER binding)

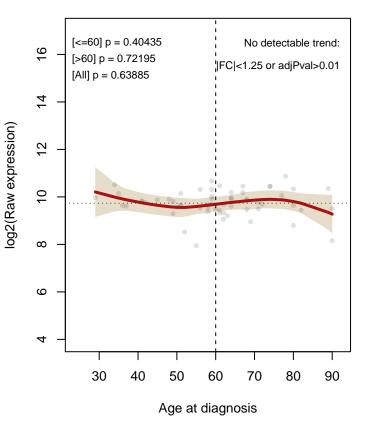
SLC25A3 (non-ER binding)

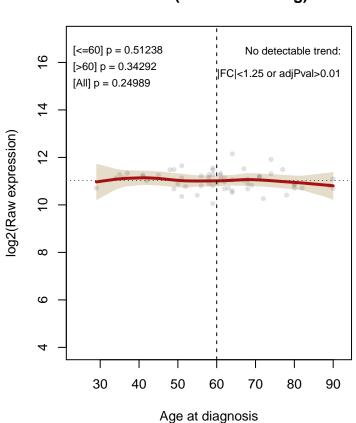




SMAD1 (non-ER binding)

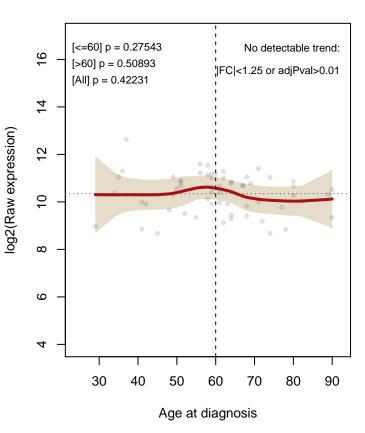
SMAD2 (non-ER binding)

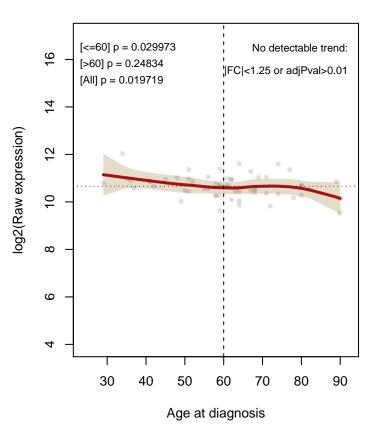






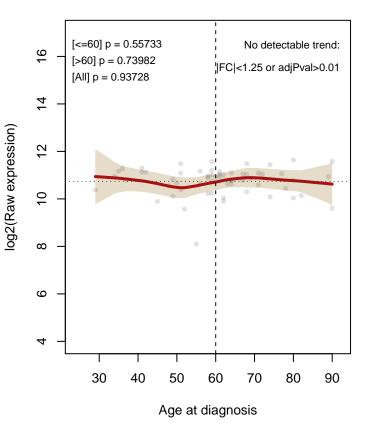
SMAD4 (non-ER binding)

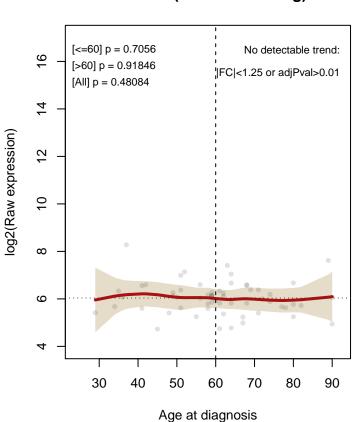


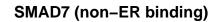


SMAD5 (non-ER binding)

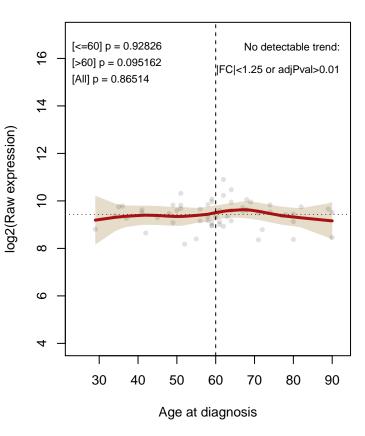
SMAD6 (non-ER binding)

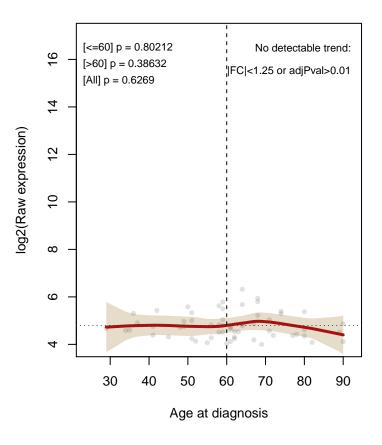






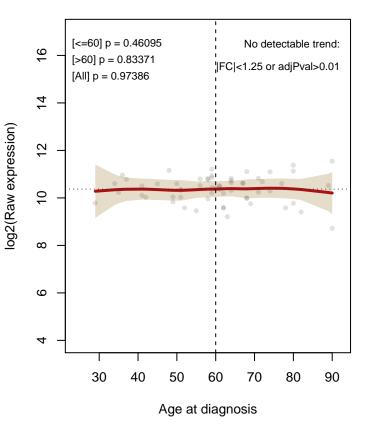
SMAD9 (non-ER binding)

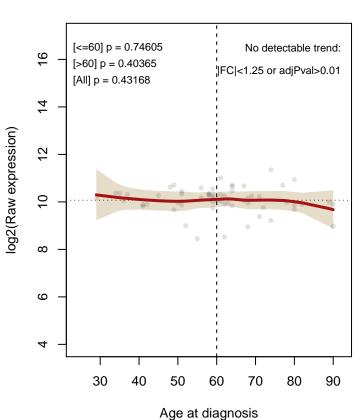


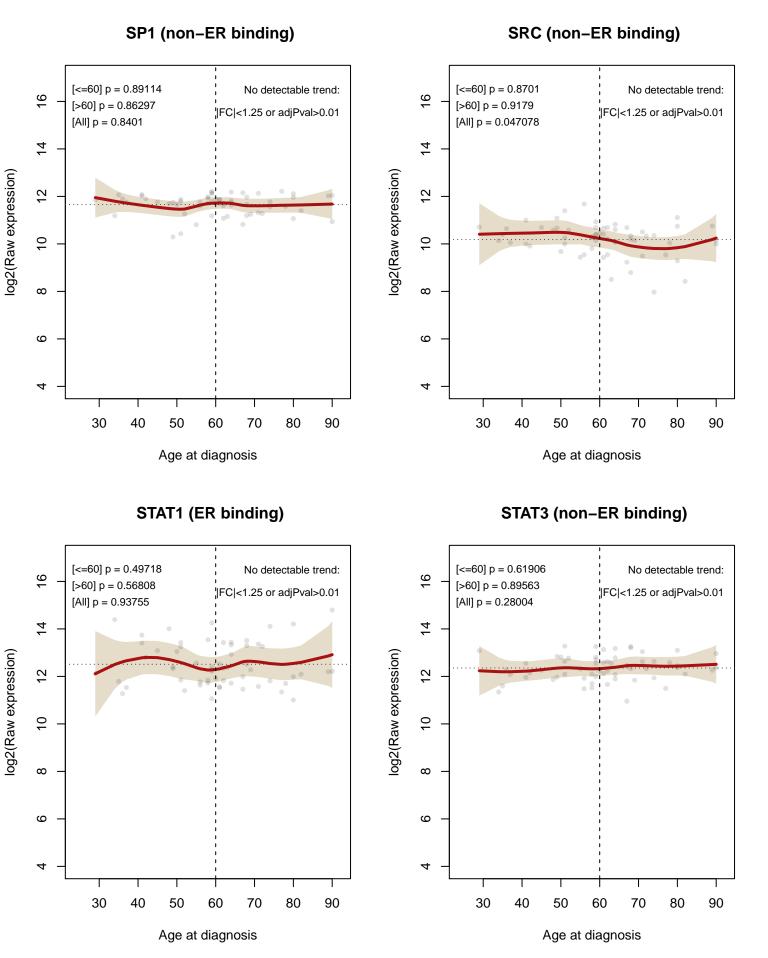


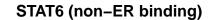
SOS1 (non-ER binding)

SOS2 (non-ER binding)

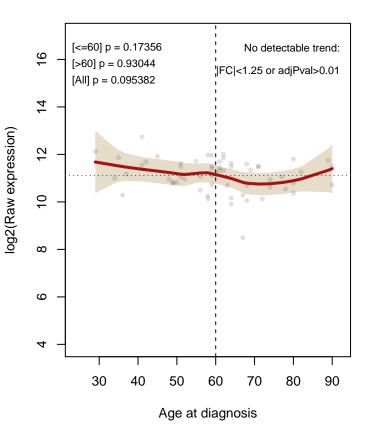


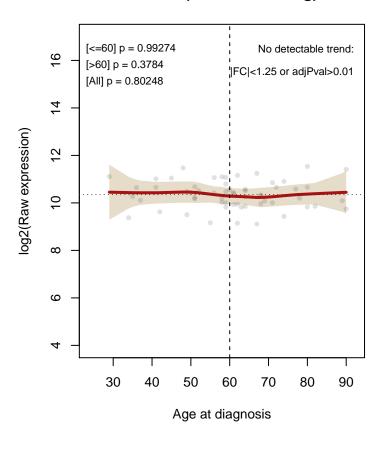






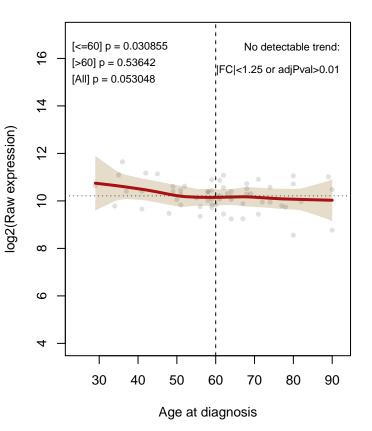
SUZ12 (non-ER binding)

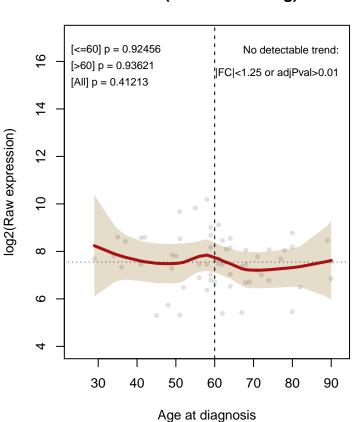




TCF3 (non-ER binding)

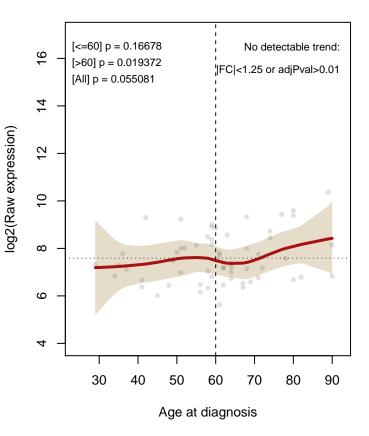
TCF7 (non-ER binding)

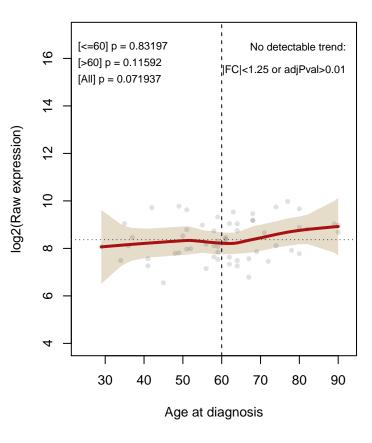






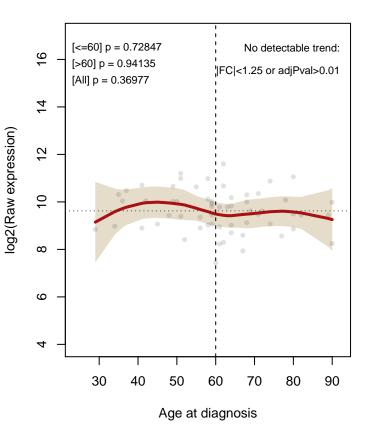
TCF7L2 (non-ER binding)

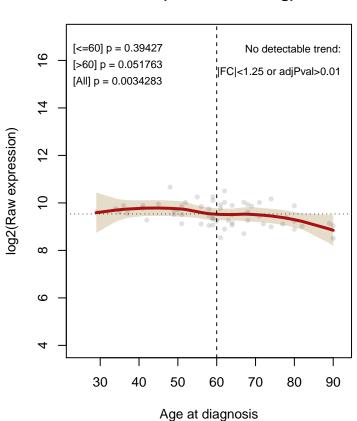


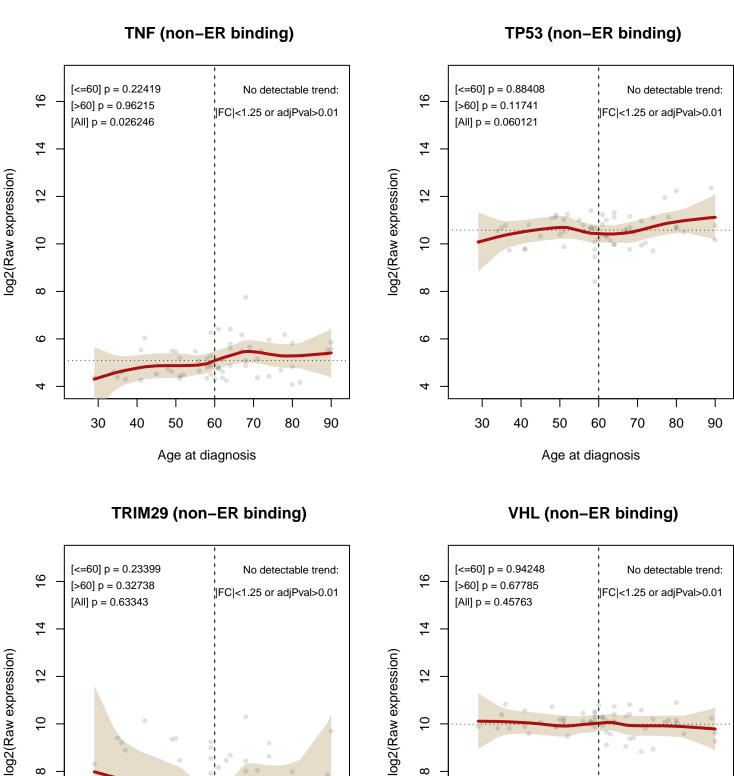


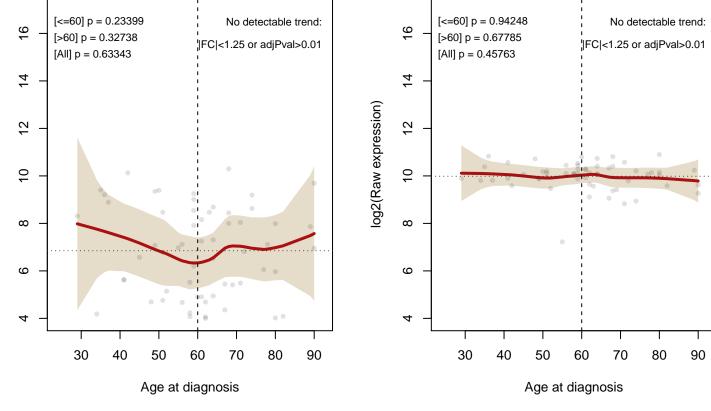
TGFB1 (non-ER binding)

TK2 (non-ER binding)







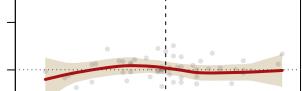




WDR3 (Holl-ER billding)

[<=60] p = 0.14656 No detectable trend:





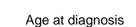
log2(Raw expression)

12

10

30

40



60

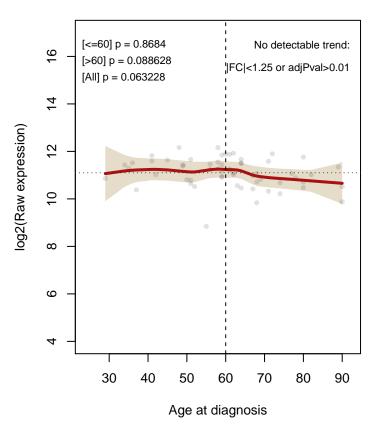
70

80

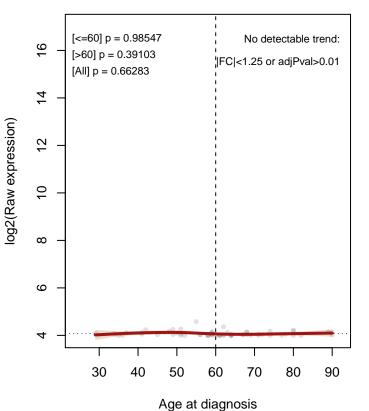
90

50

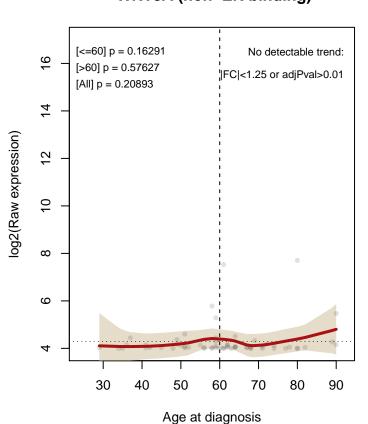
WHSC1 (non-ER binding)

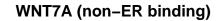


WNT1 (non-ER binding)

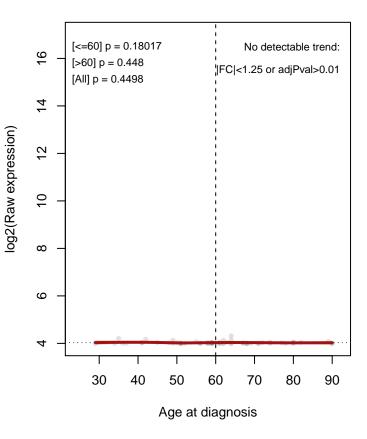


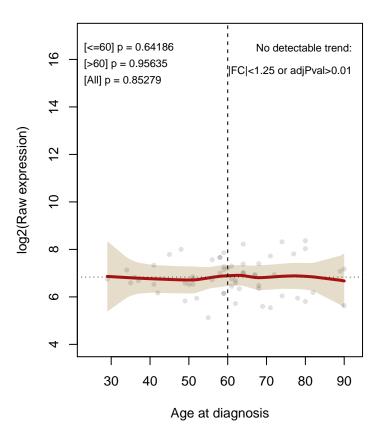
WNT3A (non-ER binding)





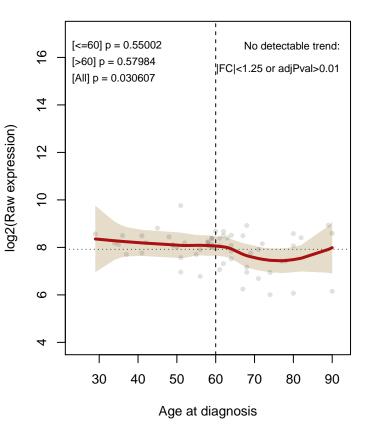
XRCC2 (non-ER binding)

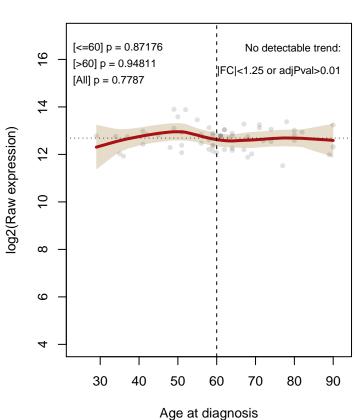




XRCC3 (non-ER binding)

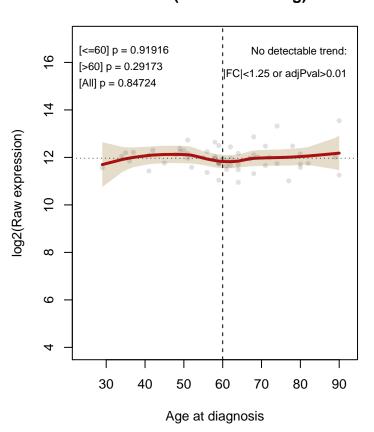
XRCC6 (non-ER binding)





YAF2 (non-ER binding)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

