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|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.045393[All] p = 0.367254 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 **AKT2 (non-ER binding)** AKT3 (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|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.48727[All] p = 0.696744 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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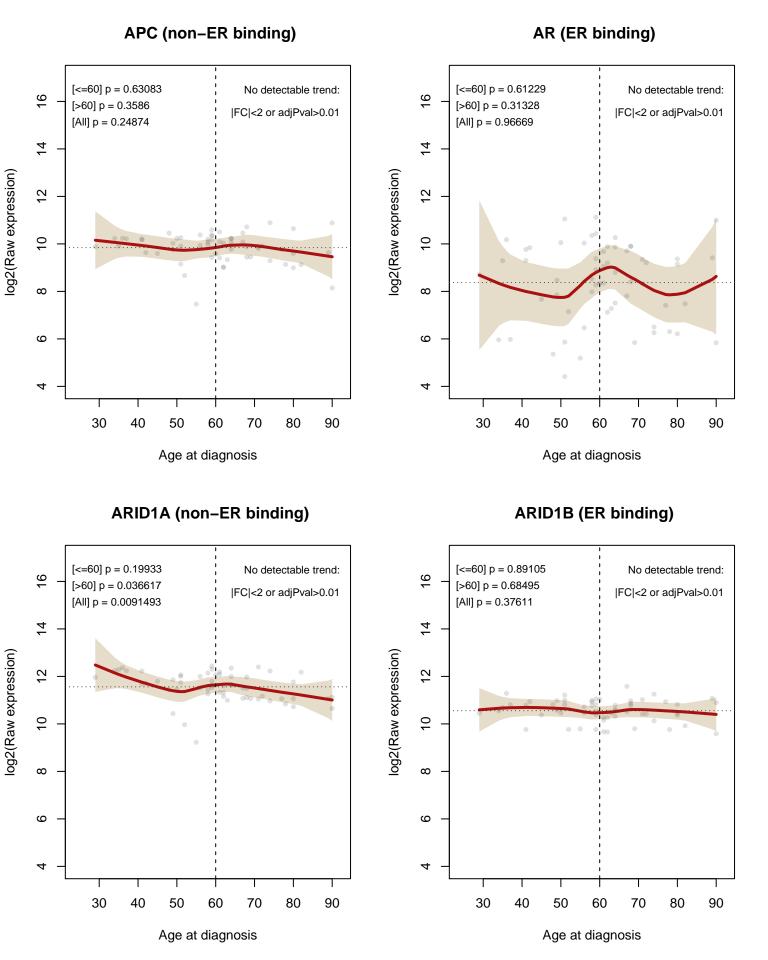
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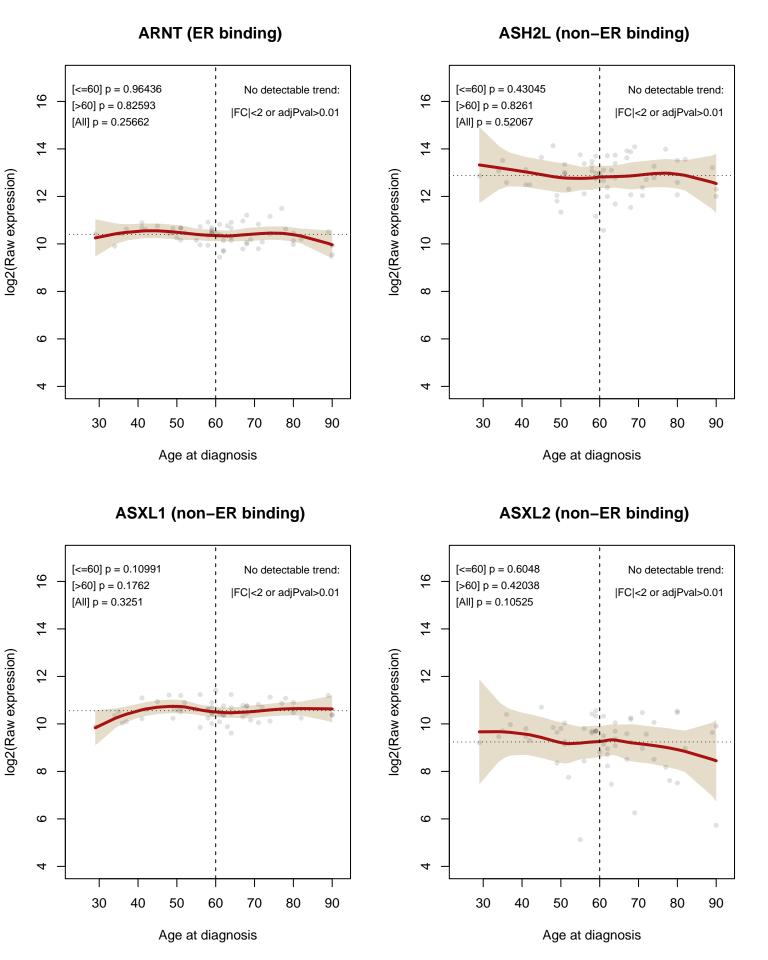
Age at diagnosis

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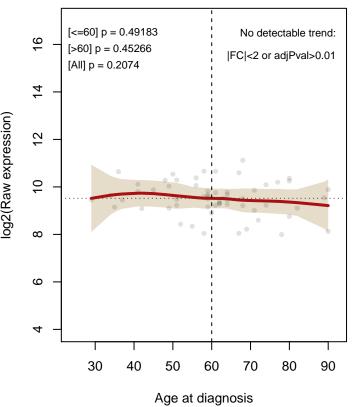
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ASXL3 (non-ER binding) [<=60] p = 0.53036No detectable trend: 16 16 [>60] p = 0.83651 |FC|<2 or adjPval>0.01 [All] p = 0.304234 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω

ATM (non-ER binding)



ATR (non-ER binding)

Age at diagnosis

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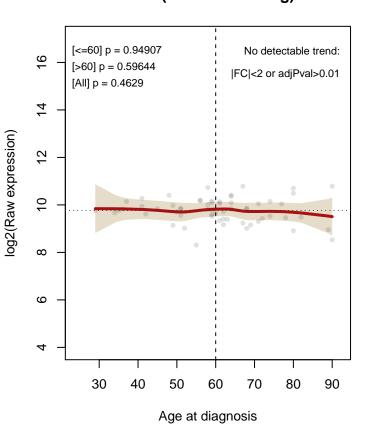
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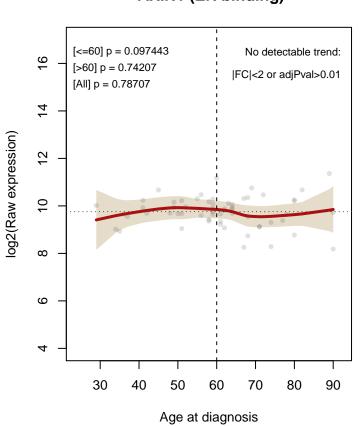
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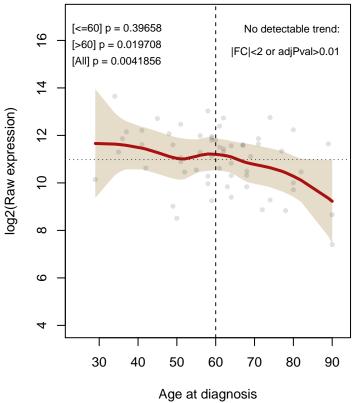


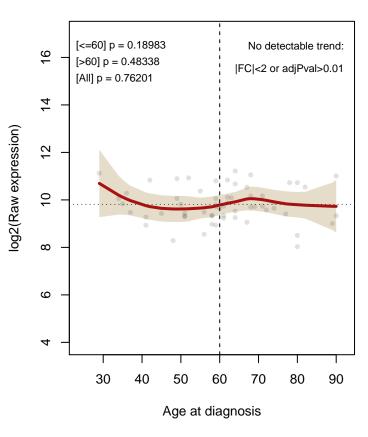
AXIN1 (ER binding)



BCL2 (non–ER binding)





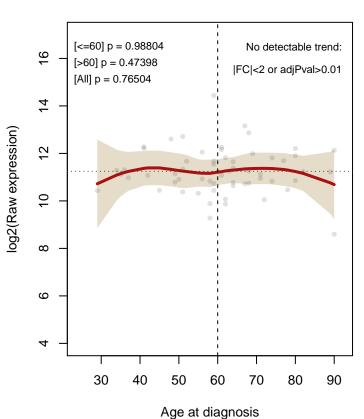


BIRC5 (non-ER binding)

[<=60] p = 0.12804No detectable trend: 16 [>60] p = 0.75151 |FC|<2 or adjPval>0.01 [All] p = 0.848734 log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

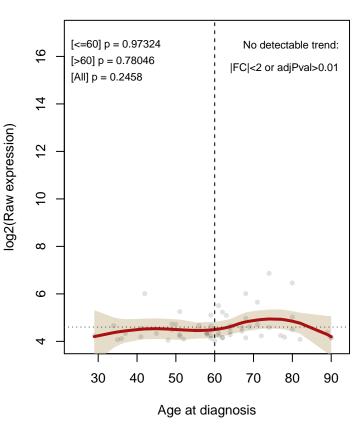
Age at diagnosis

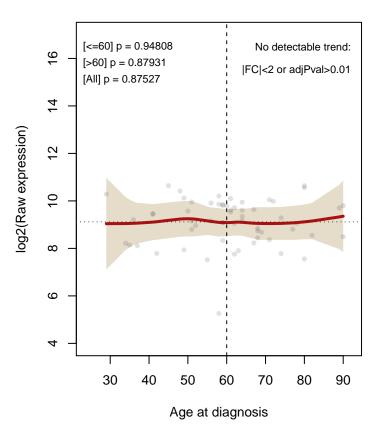
BMI1 (non-ER binding)





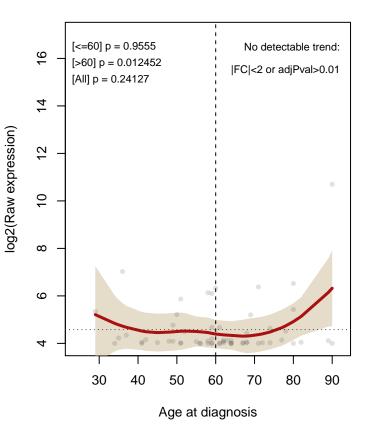
BRCA1 (non-ER binding)

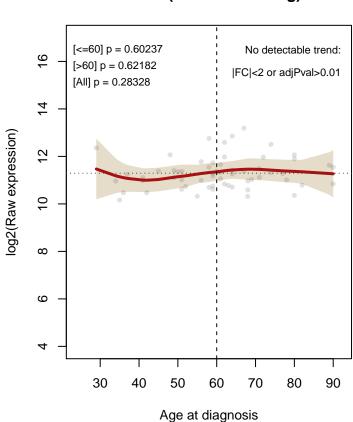




CA9 (non-ER binding)

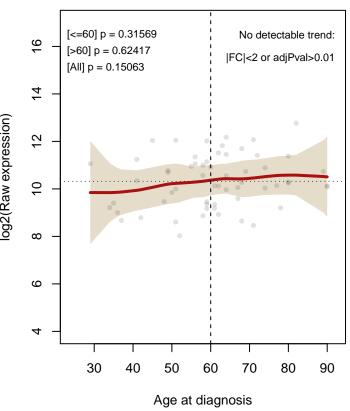
CBX1 (non-ER binding)





CBX2 (non-ER binding) [<=60] p = 0.34252No detectable trend: 16 16 [>60] p = 0.53166 |FC|<2 or adjPval>0.01 [All] p = 0.931544 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9

CBX4 (non-ER binding)



CBX6 (non-ER binding)

Age at diagnosis

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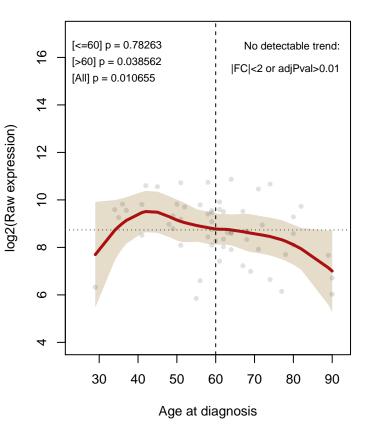
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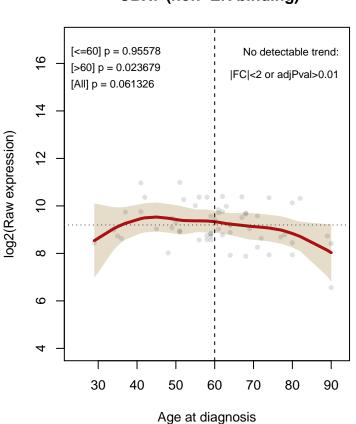
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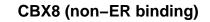
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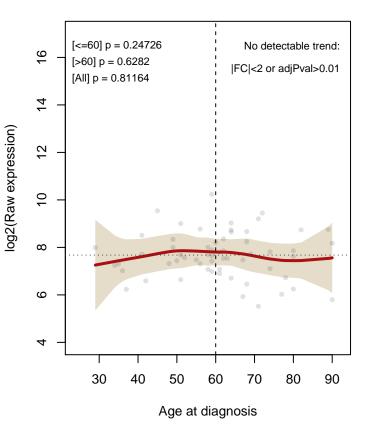


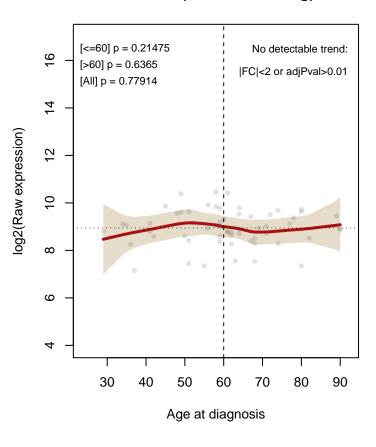
CBX7 (non-ER binding)





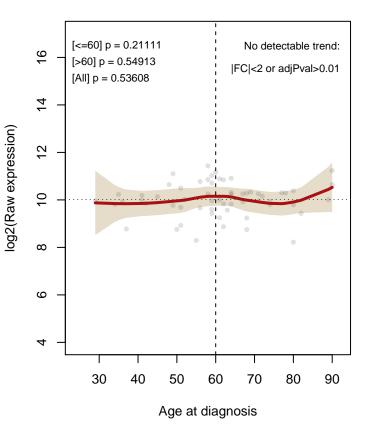
CCNA2 (non-ER binding)

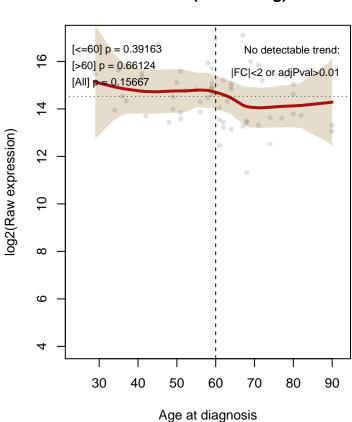


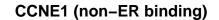


CCNB1 (non-ER binding)

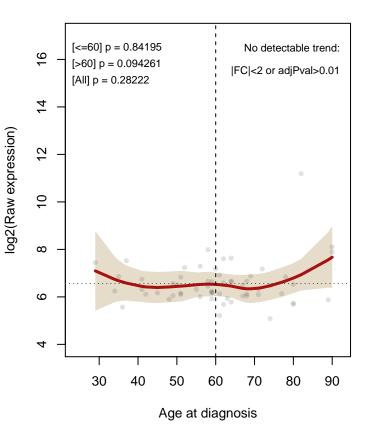
CCND1 (ER binding)

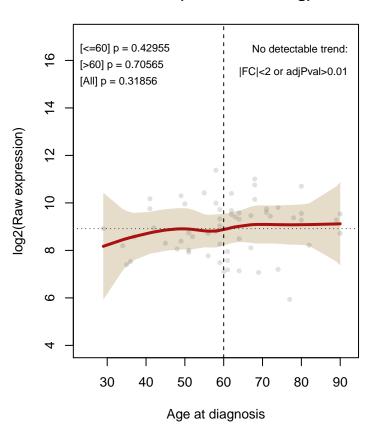






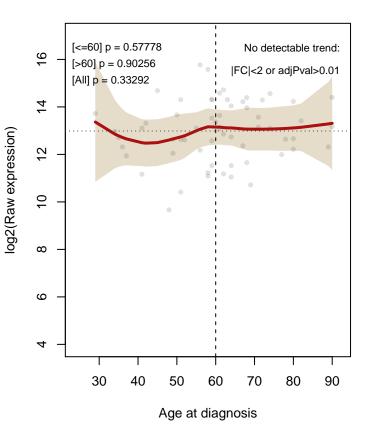
CD163 (non-ER binding)

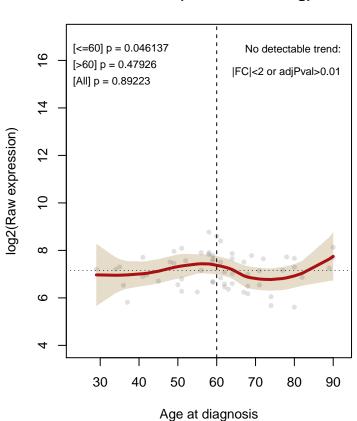


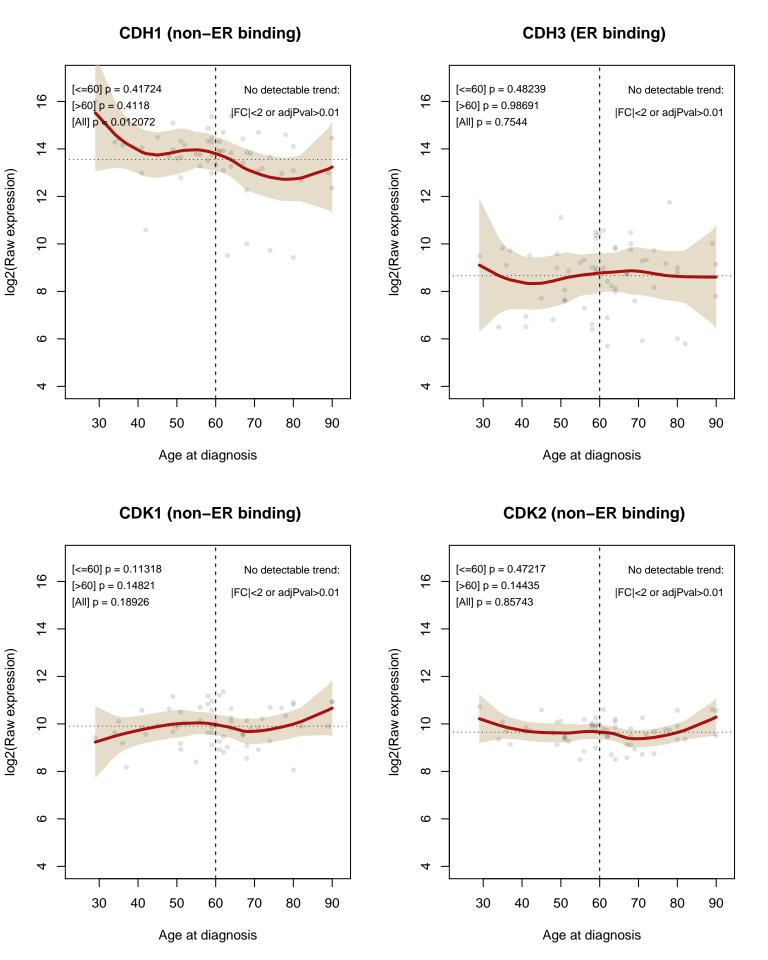


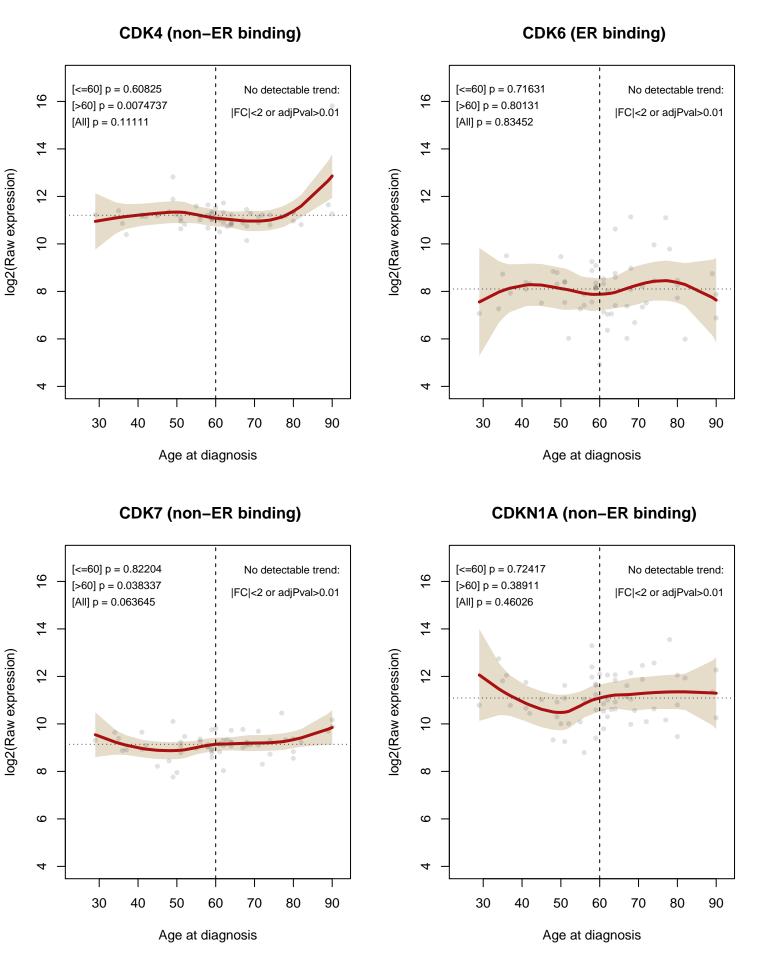
CD44 (non-ER binding)

CDC25C (non-ER binding)



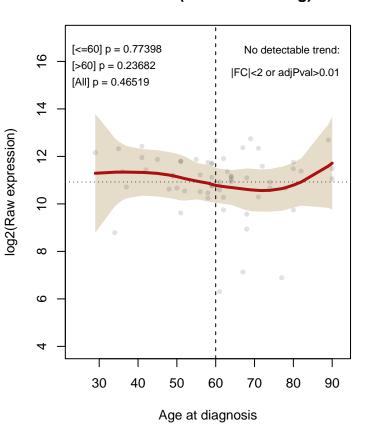


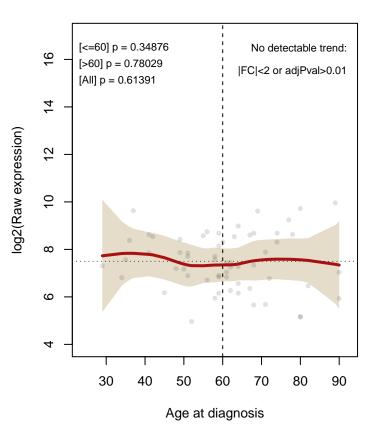




CDKN1B (non-ER binding)

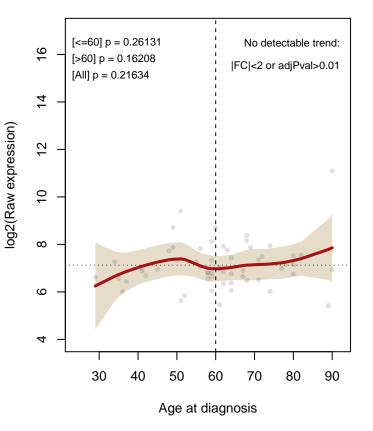
CDKN1C (non-ER binding)

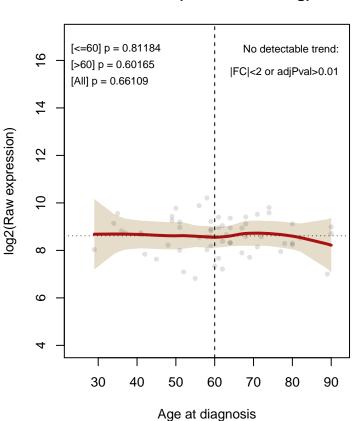




CDKN2A (non-ER binding)

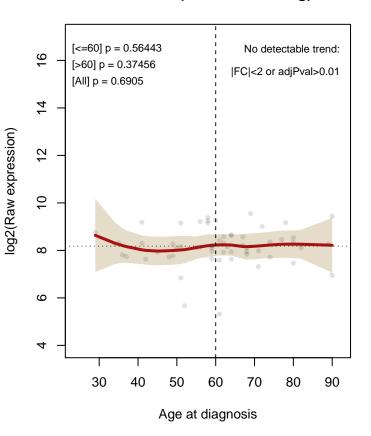
CDKN2B (non-ER binding)

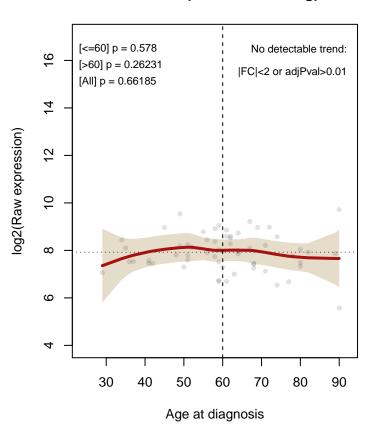




CDKN2C (non-ER binding)

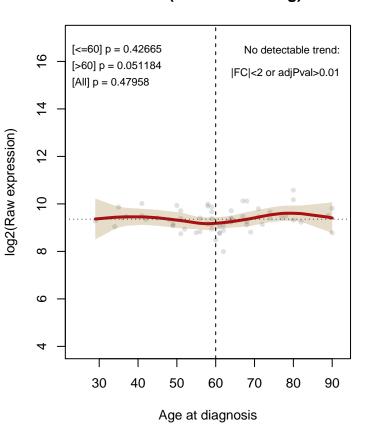
CDKN2D (non-ER binding)

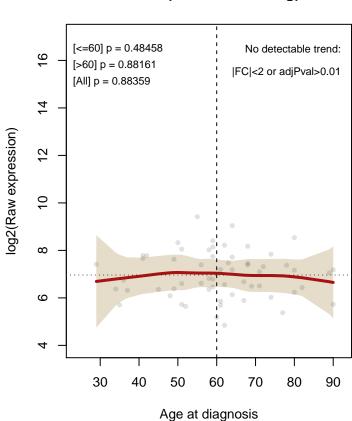




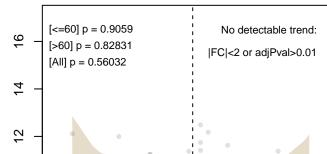
CHUK (non-ER binding)

CIITA (non-ER binding)





CLDN3 (non-ER binding)



log2(Raw expression)

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Age at diagnosis

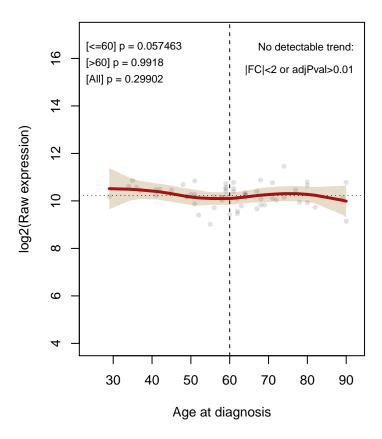
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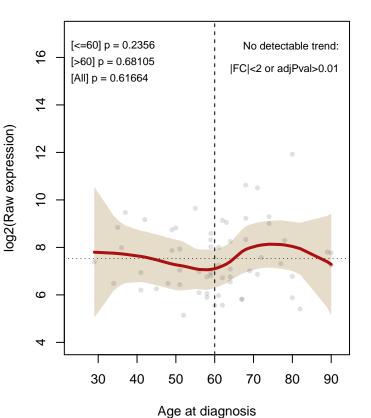
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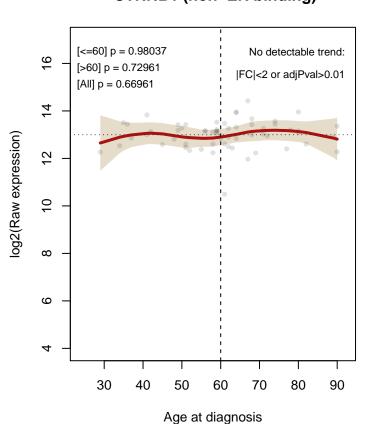
CREB1 (non-ER binding)



CRYAB (non-ER binding)

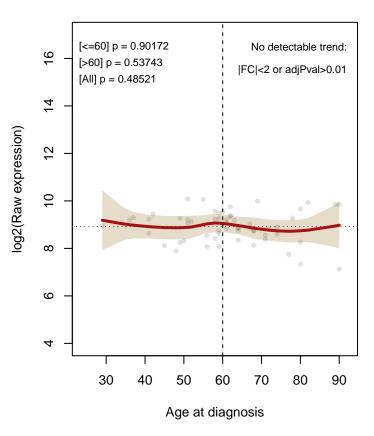


CTNNB1 (non-ER binding)



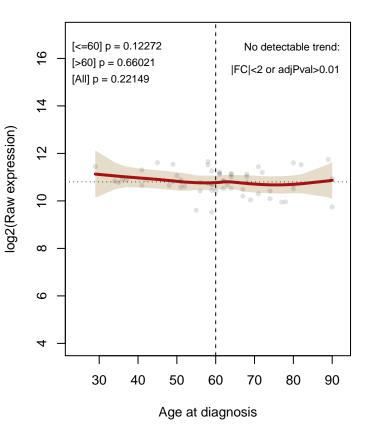
DLC1 (ER binding) [<=60] p = 0.44874No detectable trend: 16 [>60] p = 0.077541 |FC|<2 or adjPval>0.01 [AII] p = 0.1864 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

DMAP1 (non-ER binding)

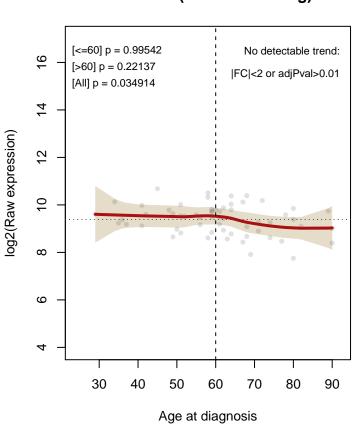


DNMT1 (non-ER binding)

Age at diagnosis

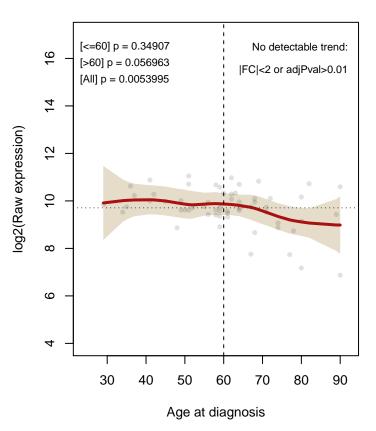


DNMT3A (non-ER binding)



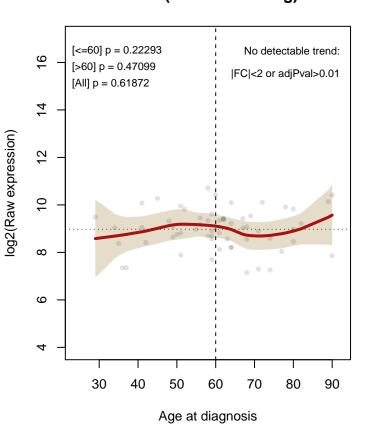
DNMT3B (non-ER binding) [<=60] p = 0.91426No detectable trend: 16 [>60] p = 0.71911 |FC|<2 or adjPval>0.01 [All] p = 0.752274 log2(Raw expression) 12

DVL1 (non-ER binding)

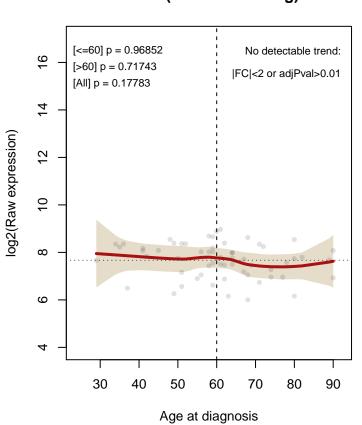


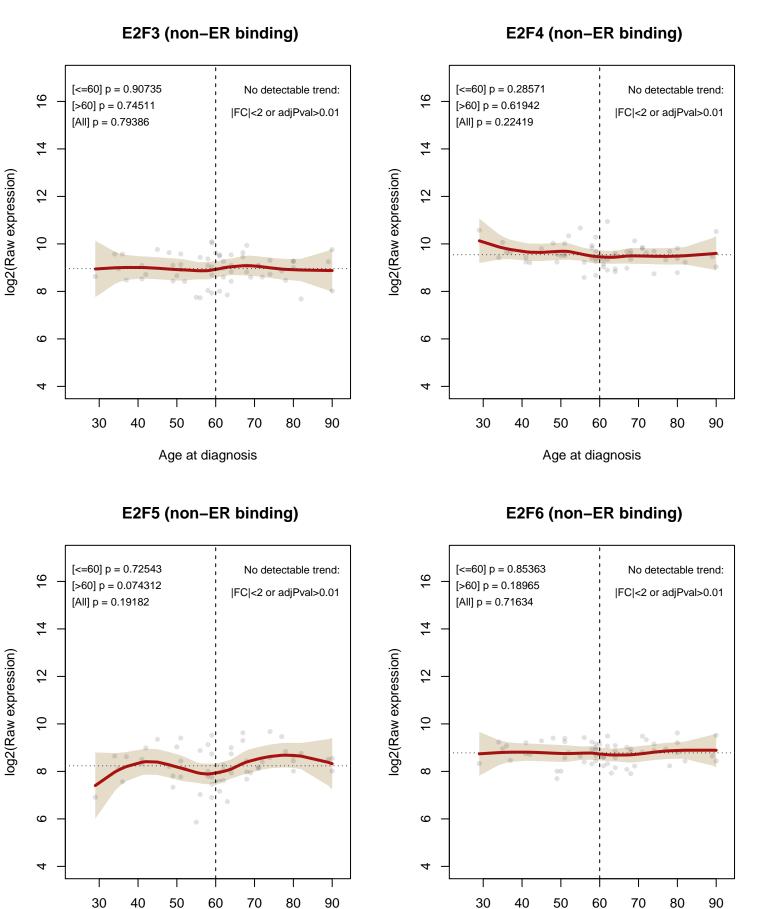
10 ω 9 30 40 50 60 70 80 90 Age at diagnosis

E2F1 (non-ER binding)



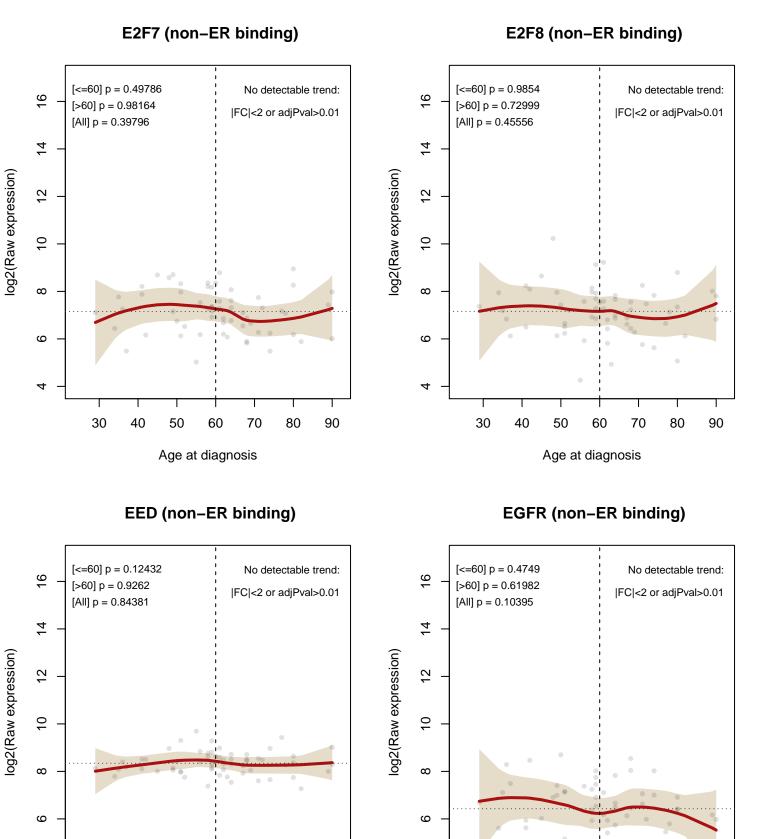
E2F2 (non-ER binding)





Age at diagnosis

Age at diagnosis

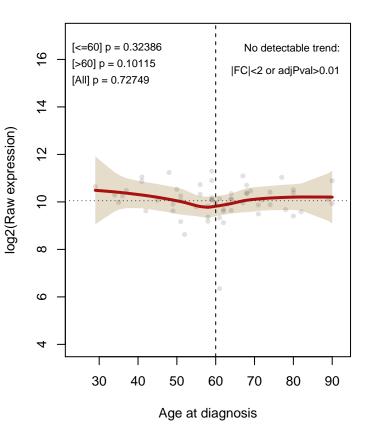


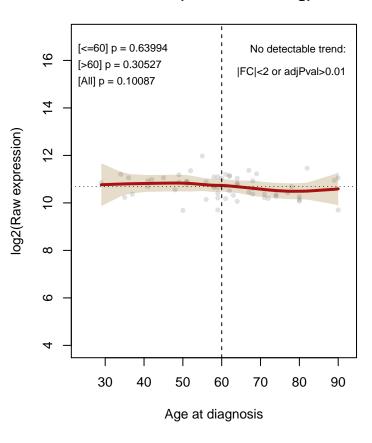
Age at diagnosis

Age at diagnosis



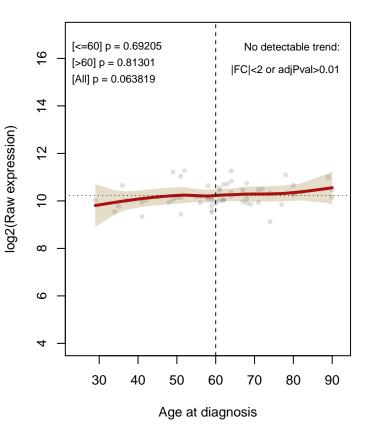
EHMT2 (non-ER binding)

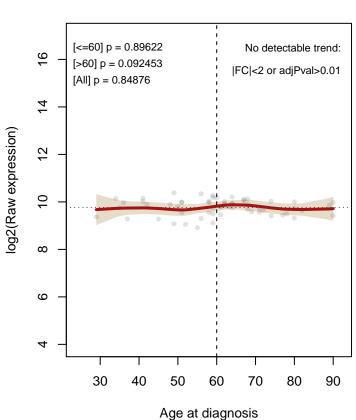




ELAC2 (non-ER binding)

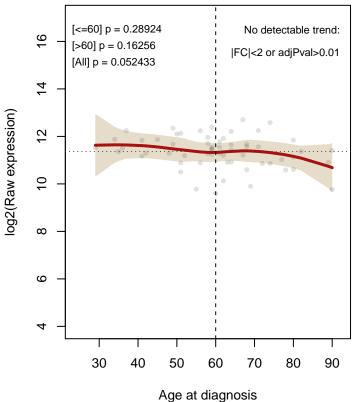
ELK1 (non-ER binding)

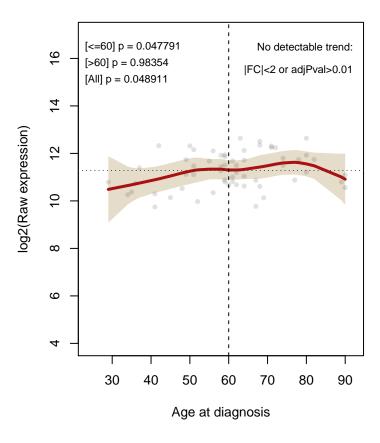




EP300 (non-ER binding)

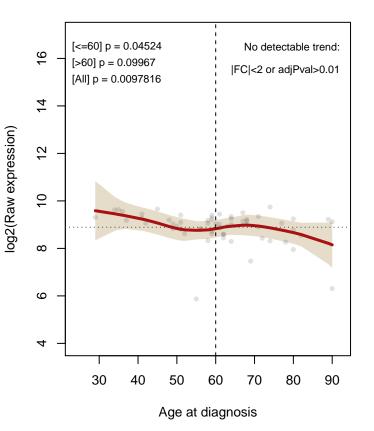
EPAS1 (non-ER binding)

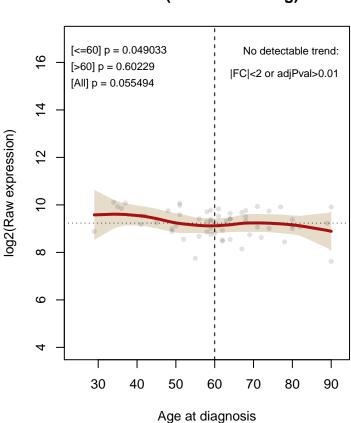




EPC1 (non-ER binding)

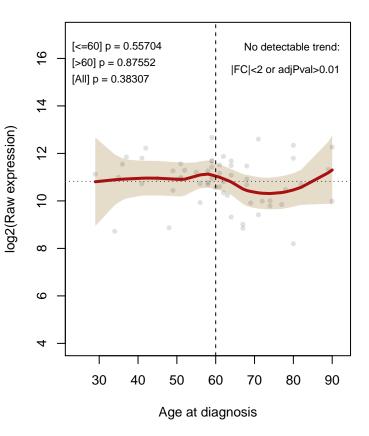
EPC2 (non-ER binding)

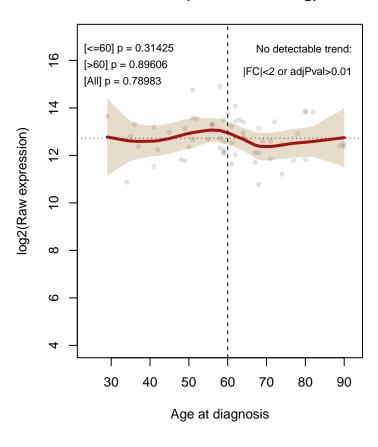






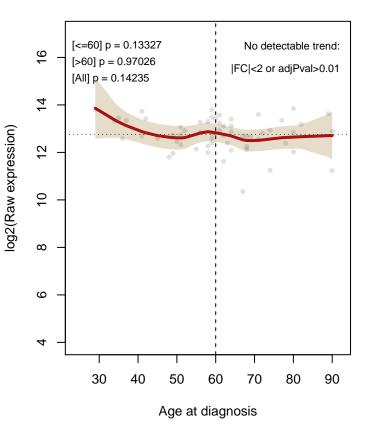
ERBB2 (non-ER binding)

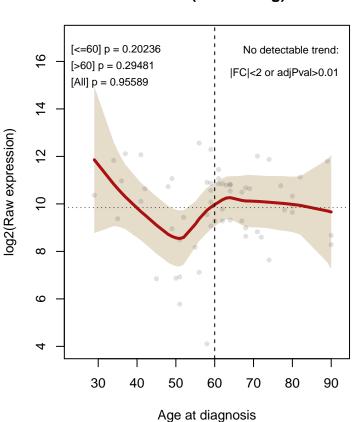


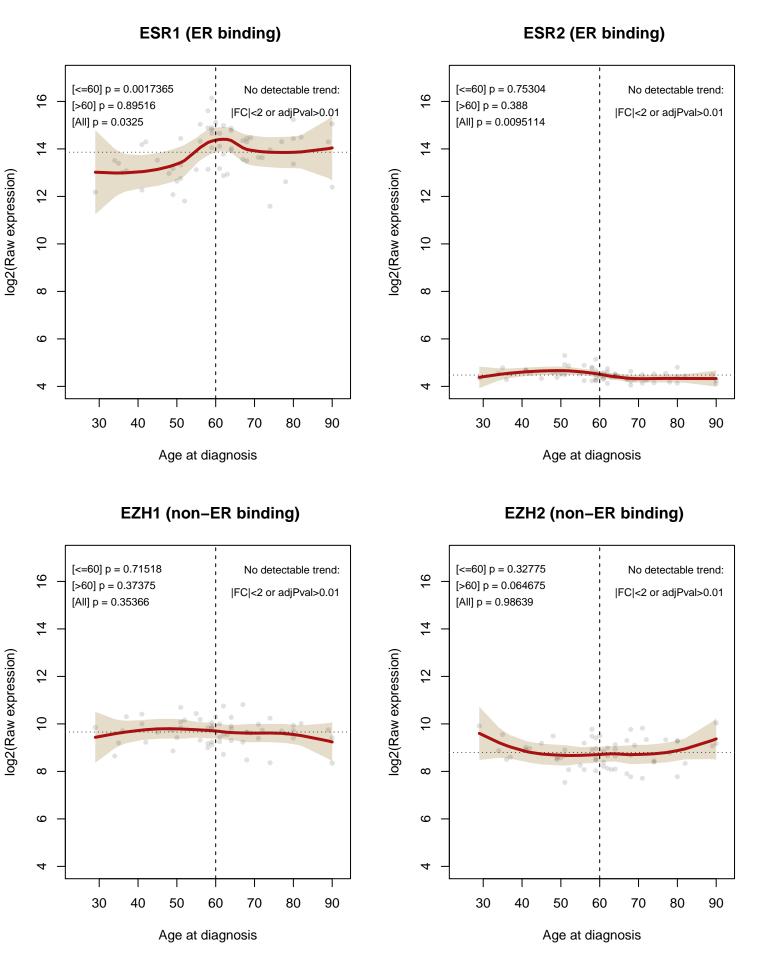


ERBB3 (non-ER binding)

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|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.16387[AII] p = 0.0985054 4 log2(Raw expression) log2(Raw expression) 12 12 19 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 **FOXC1 (ER binding)** FOXA1 (ER binding) [<=60] p = 0.85399No detectable trend: [<=60] p = 0.065784 No detectable trend: 16 16 [>60] p = 0.50193 [>60] p = 0.83274|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.85151[All] p = 0.0639194 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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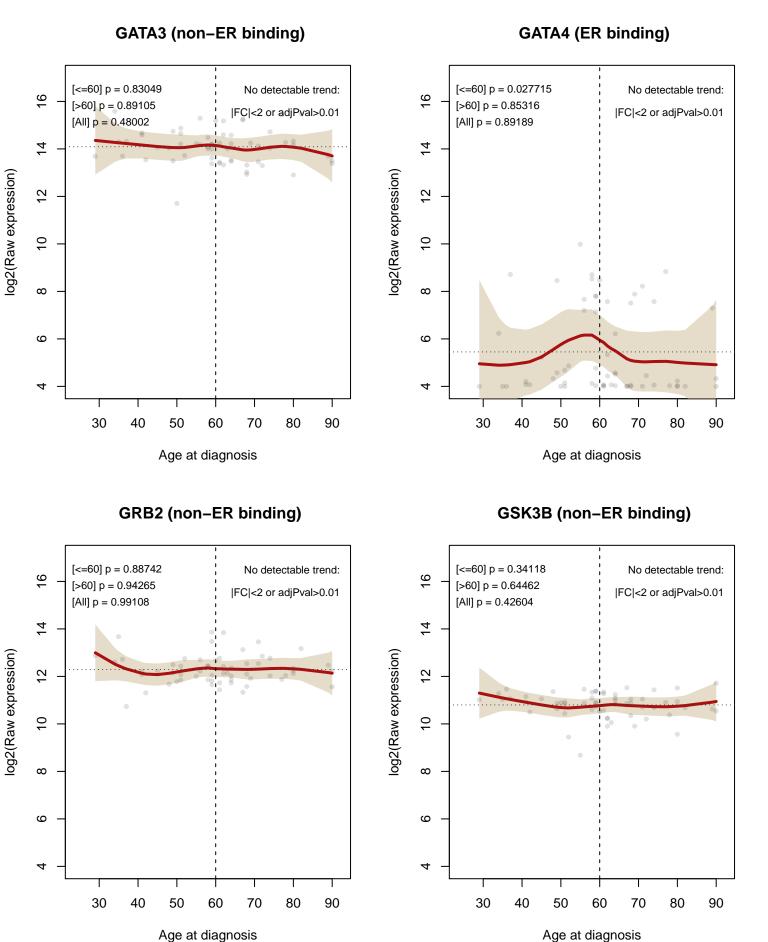
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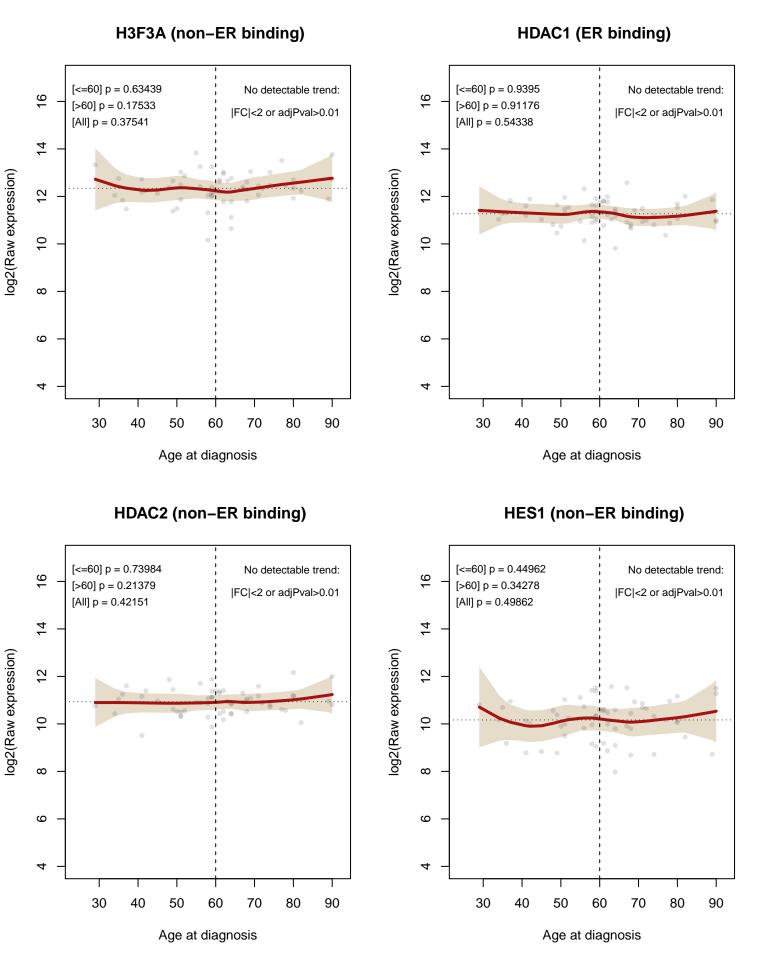
Age at diagnosis

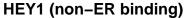
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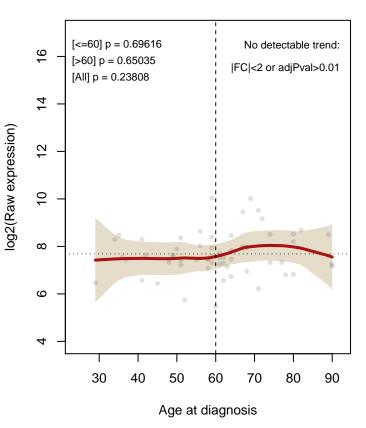
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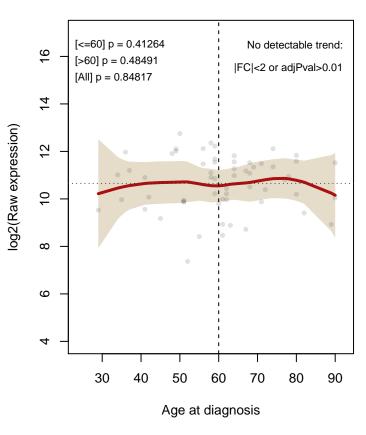






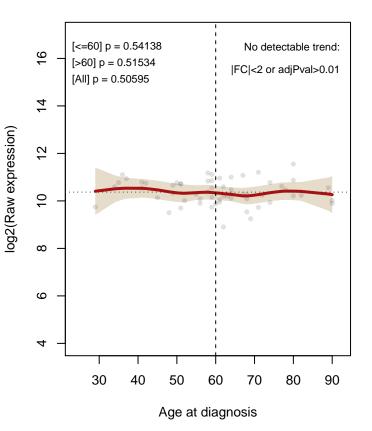
HIF1A (non-ER binding)

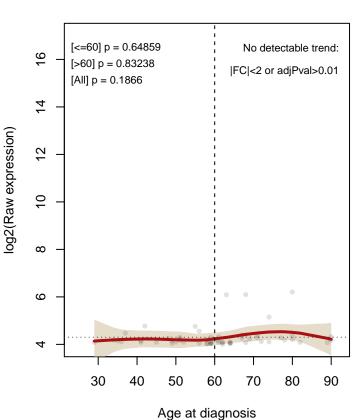




HIF1AN (non-ER binding)

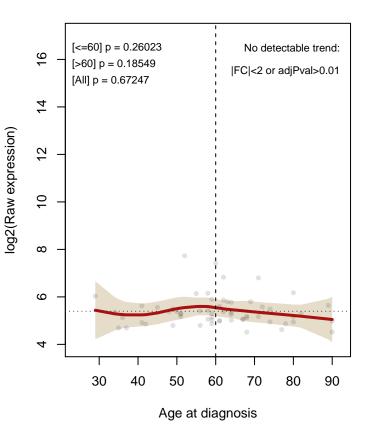
HIF3A (non-ER binding)

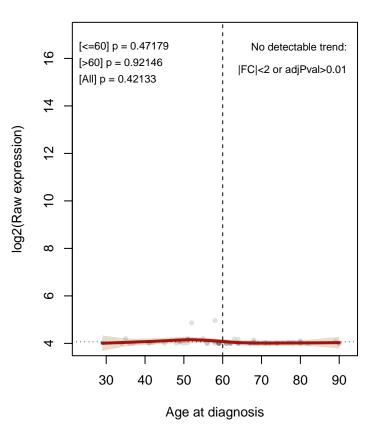




HNF1A (non-ER binding)

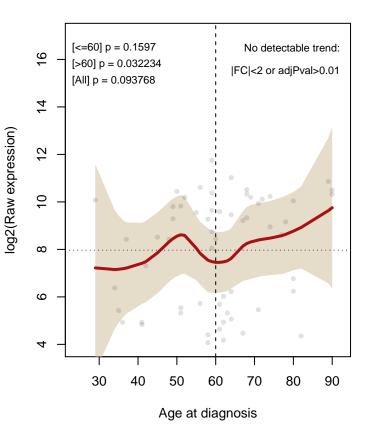
HNF1B (non-ER binding)

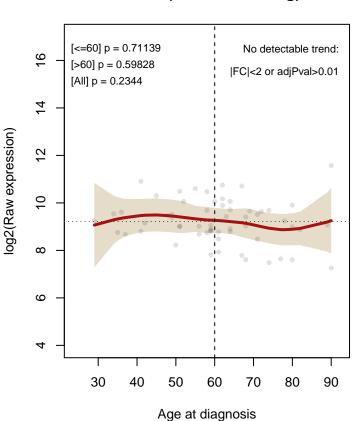




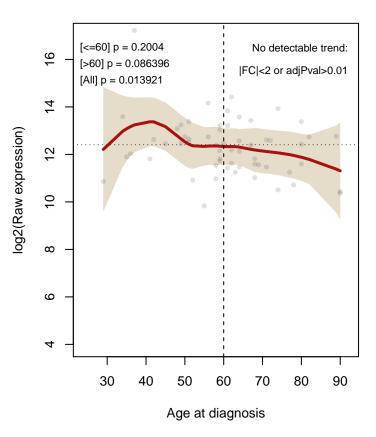
HOXC10 (non-ER binding)

HRAS (non-ER binding)

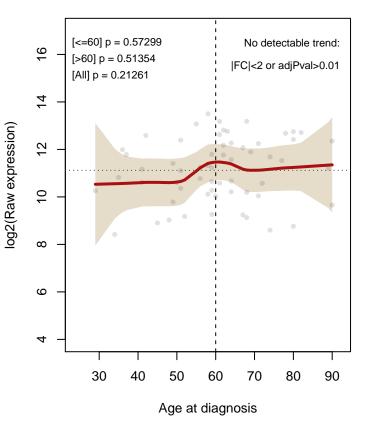




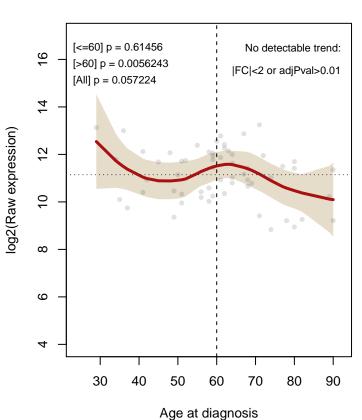
IGF1R (ER binding)



IGFBP2 (non-ER binding)

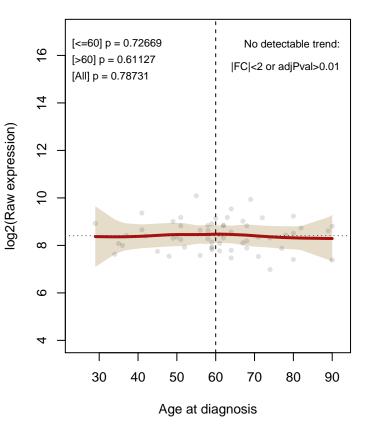


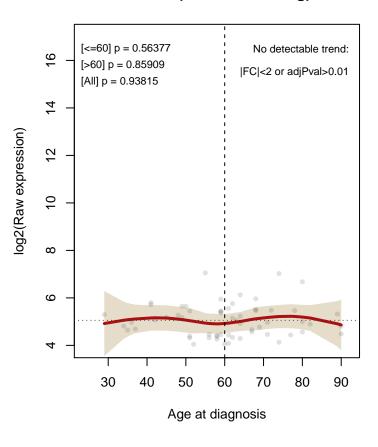
IKBKB (ER binding)





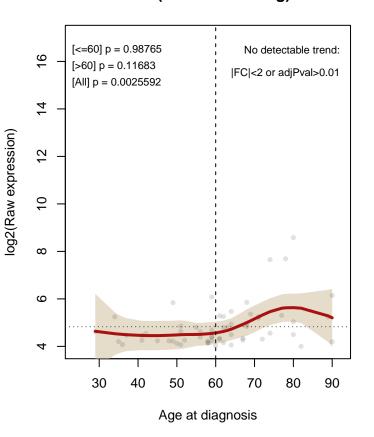
IL2RA (non-ER binding)

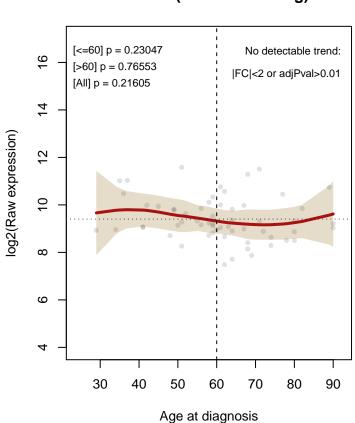


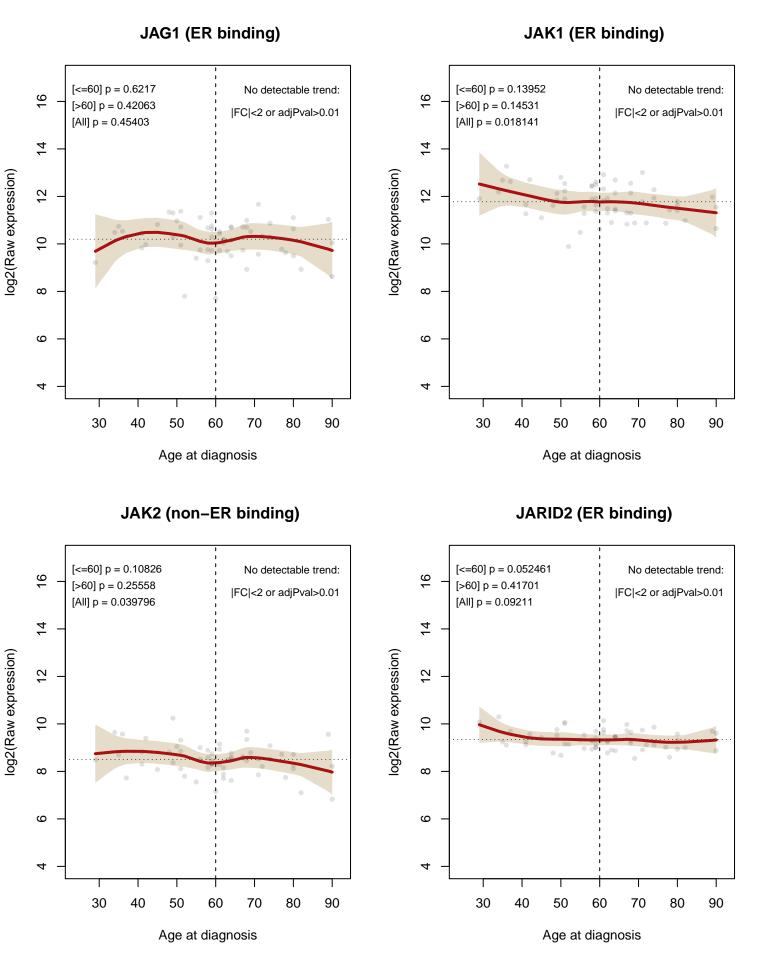


IL6 (non-ER binding)

INPP4B (non-ER binding)

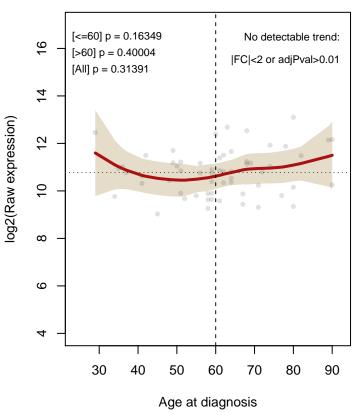


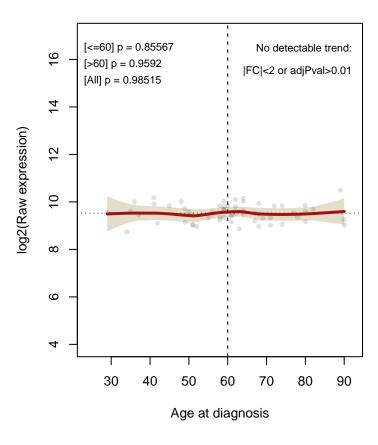






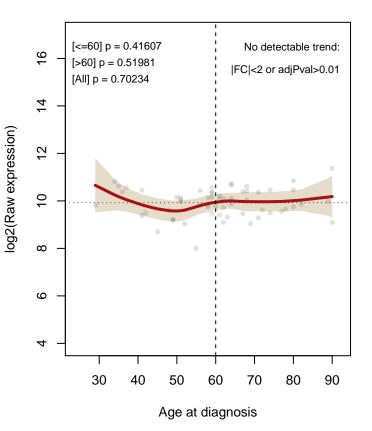
KDM2B (non-ER binding)

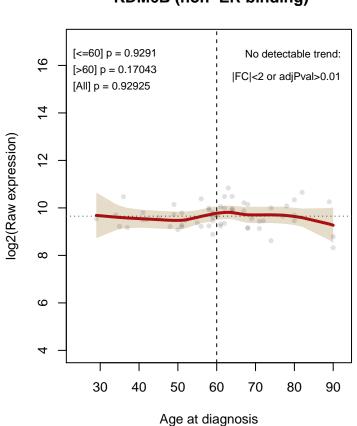




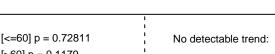
KDM6A (non-ER binding)

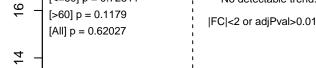
KDM6B (non-ER binding)





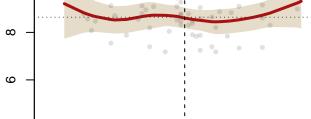






log2(Raw expression)





Age at diagnosis

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40

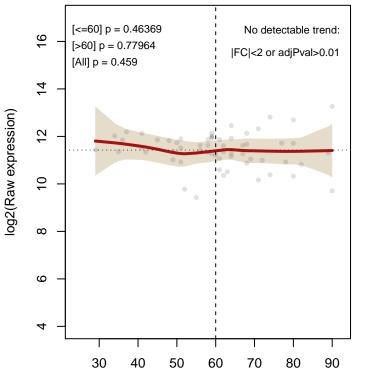
KMT2C (non-ER binding)

60

70

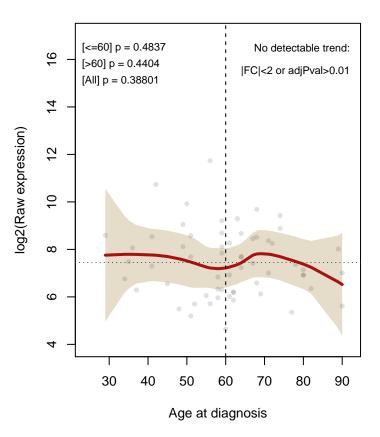
80

90

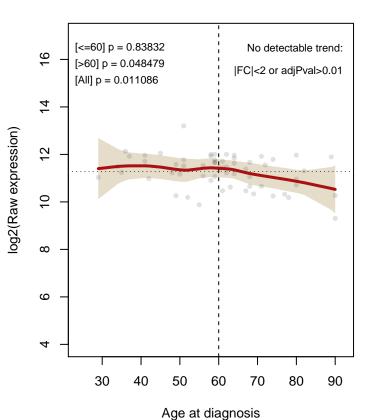


Age at diagnosis

KIT (non-ER binding)

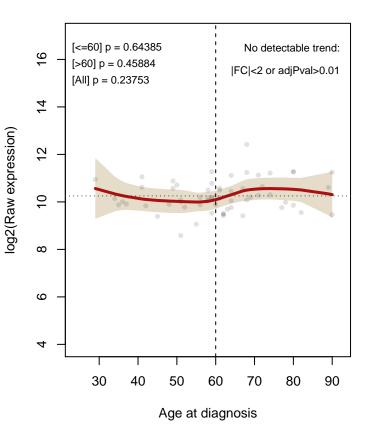


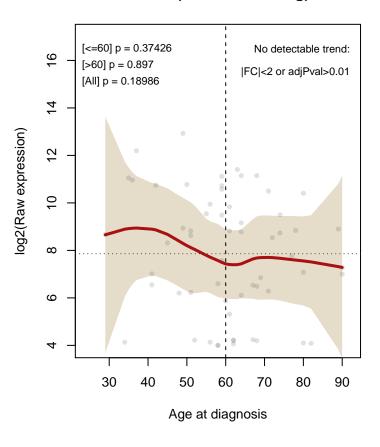
KMT2D (non-ER binding)



KRAS (non-ER binding)

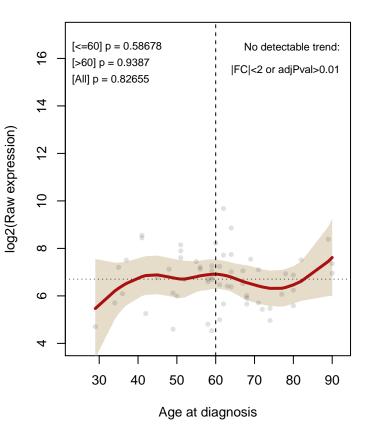
KRT5 (non-ER binding)

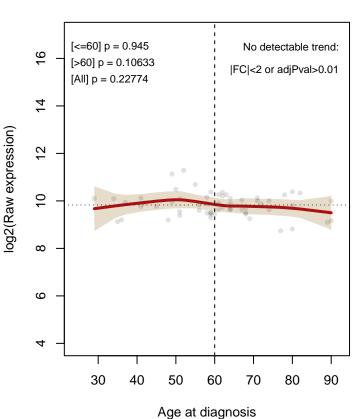




L3MBTL1 (non-ER binding)

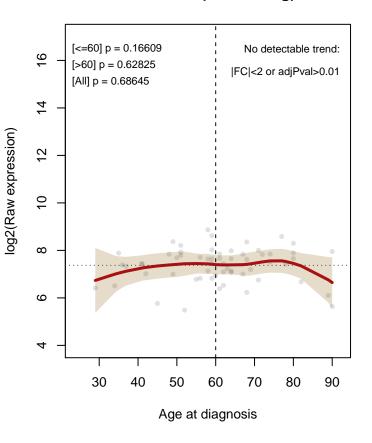
L3MBTL2 (non-ER binding)

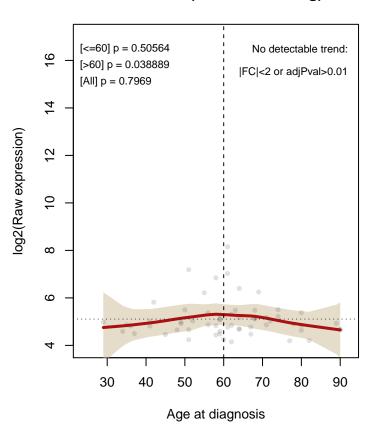




L3MBTL3 (ER binding)

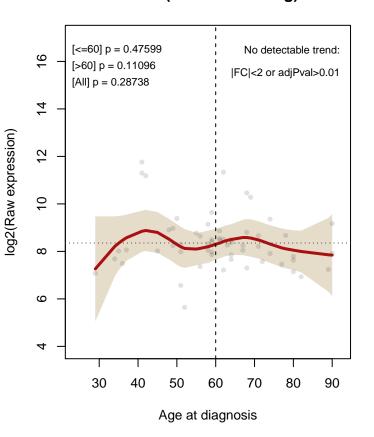
L3MBTL4 (non-ER binding)

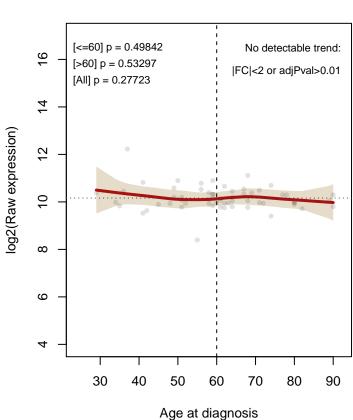




LEF1 (non-ER binding)

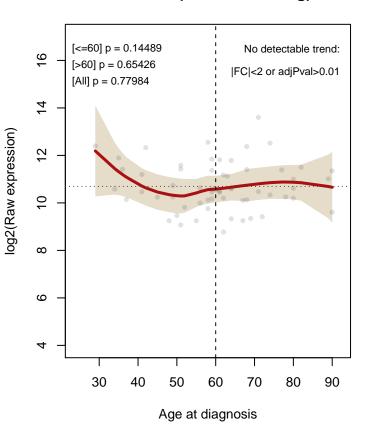
MAP2K1 (non-ER binding)

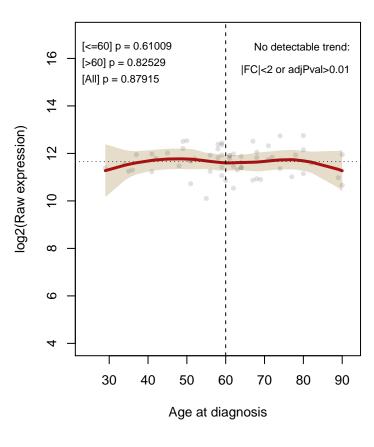




MAP3K1 (non-ER binding)

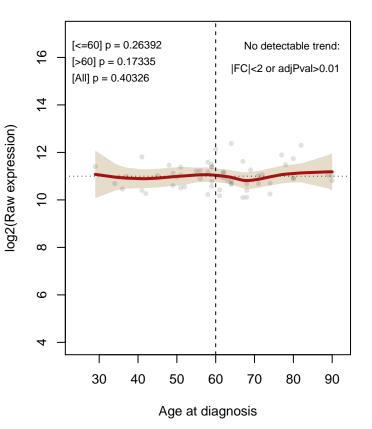
MAPK1 (non-ER binding)

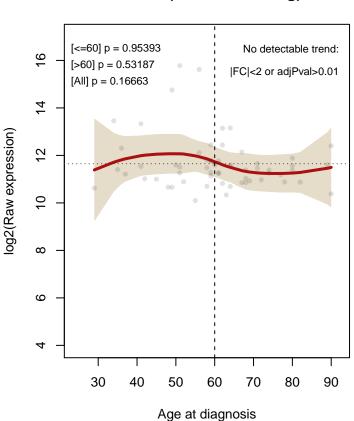




MAPK3 (non-ER binding)

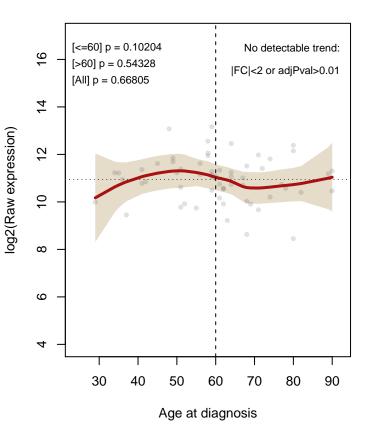
MDM2 (non-ER binding)

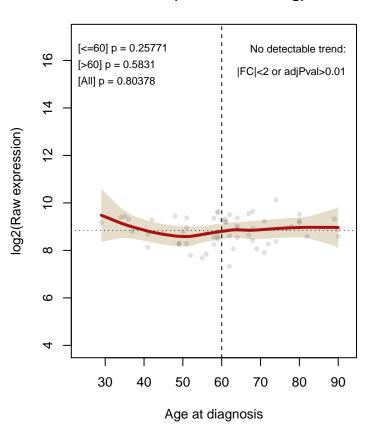






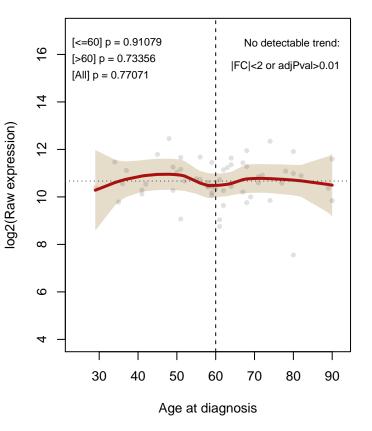
MTF2 (non-ER binding)

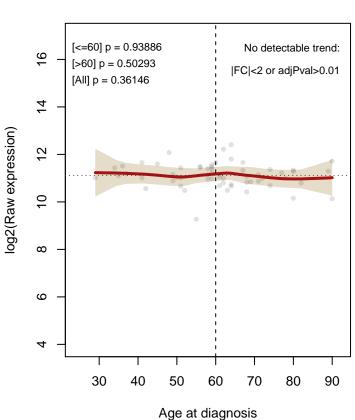




MYC (non-ER binding)

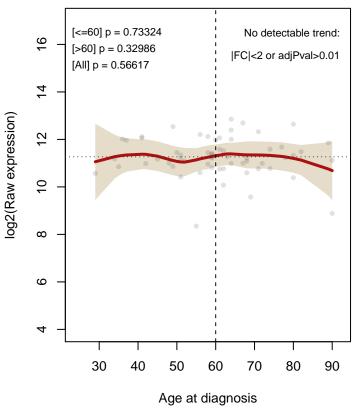
NCOA6 (non-ER binding)

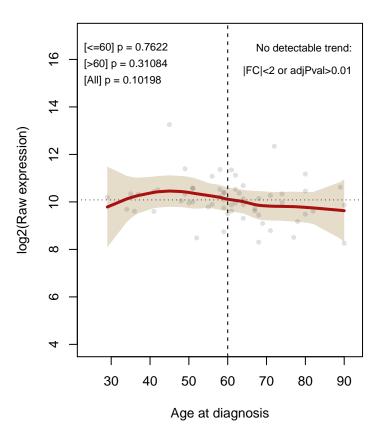




NCOR1 (non-ER binding)

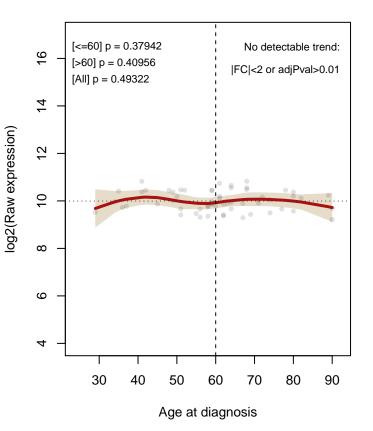
NES (non-ER binding)

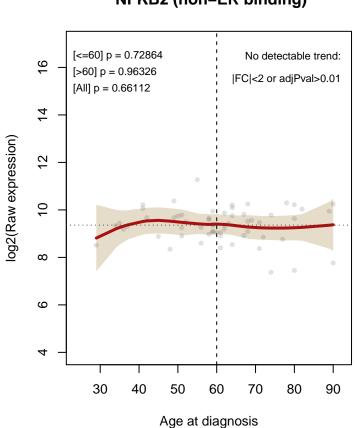




NFKB1 (non-ER binding)

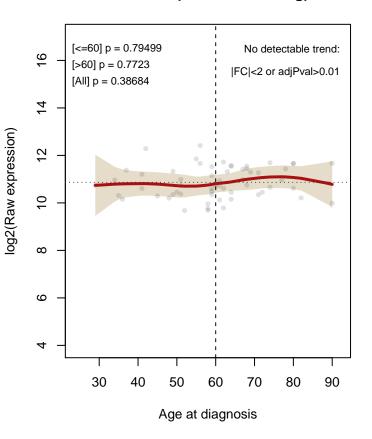
NFKB2 (non-ER binding)

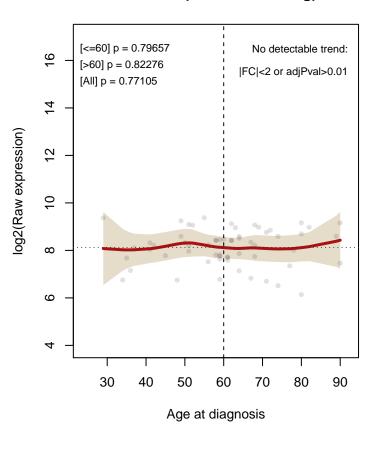




NFKBIA (non-ER binding)

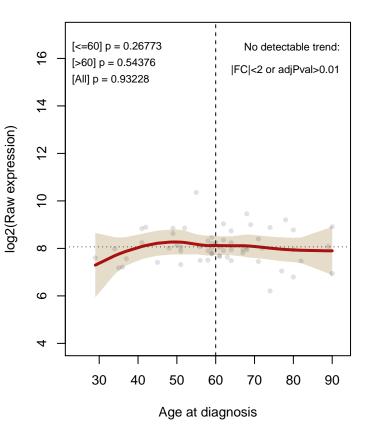
NFKBIB (non-ER binding)

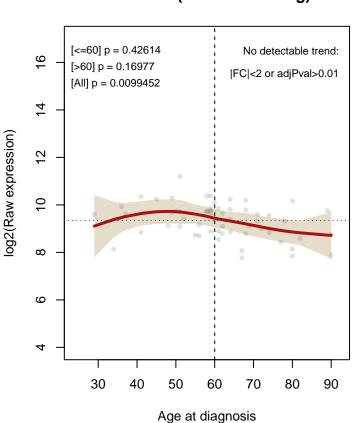




NFKBIE (non-ER binding)

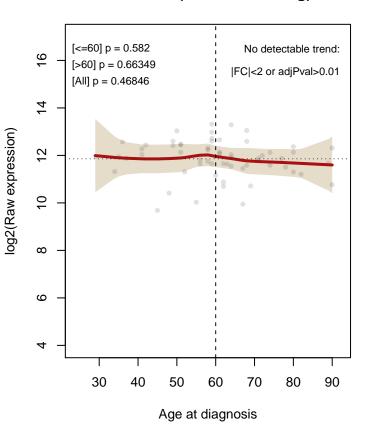
NOTCH1 (non-ER binding)

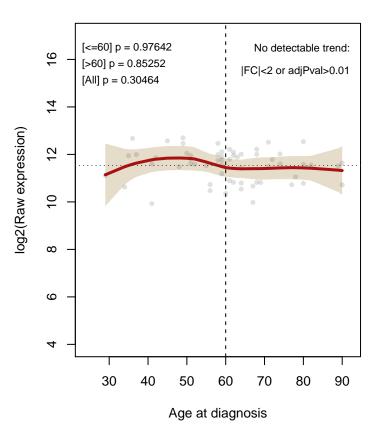




NOTCH2 (non-ER binding)

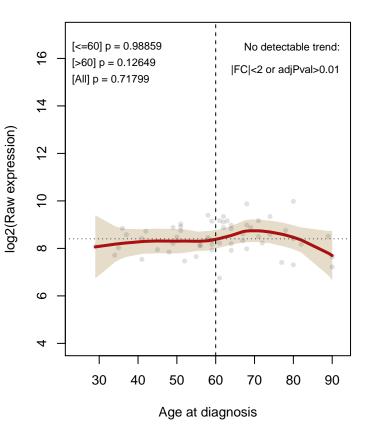
NOTCH3 (non-ER binding)

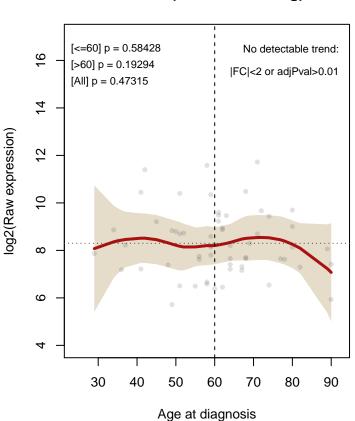




NOTCH4 (non-ER binding)

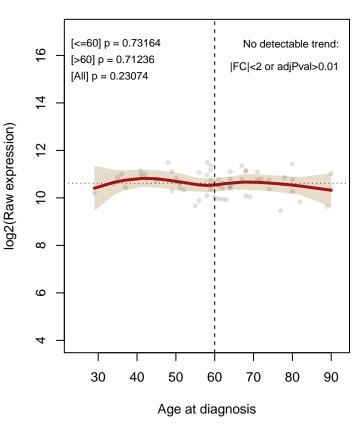
NR4A2 (non-ER binding)

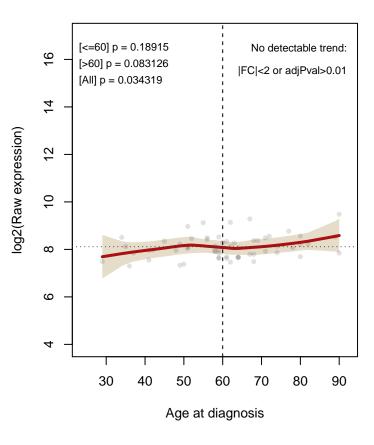






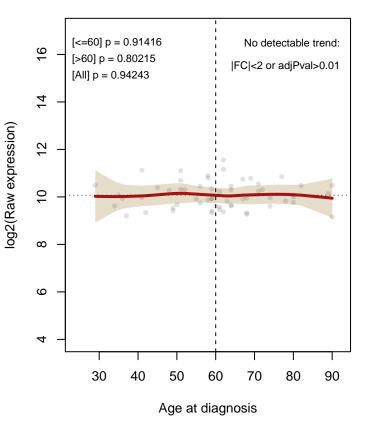
PCGF1 (non-ER binding)

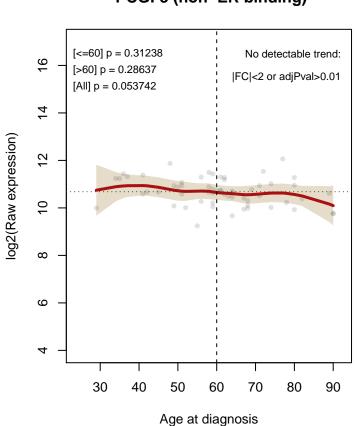


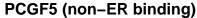


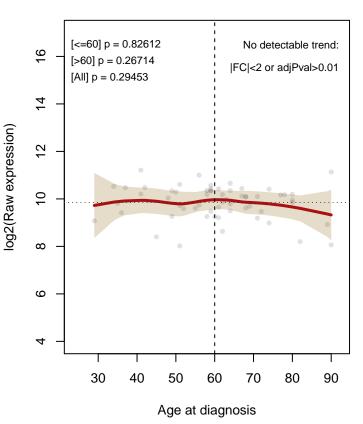
PCGF2 (non-ER binding)

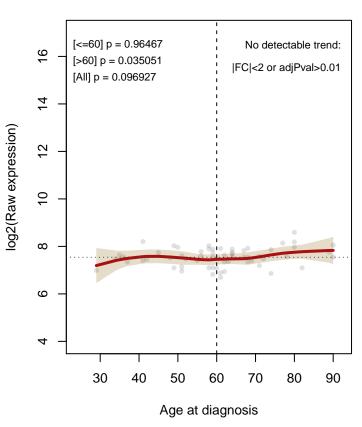
PCGF3 (non-ER binding)







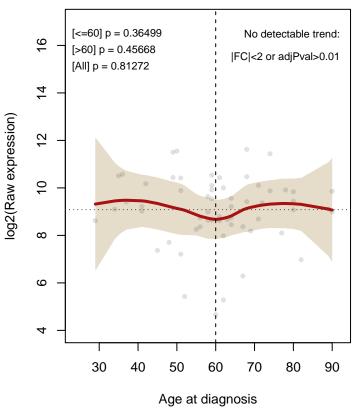


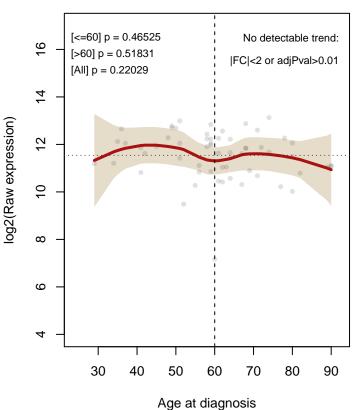


PCGF6 (non-ER binding)

PDGFRA (non-ER binding)

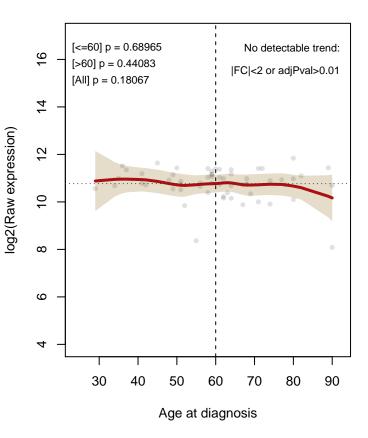
PDGFRB (non-ER binding)

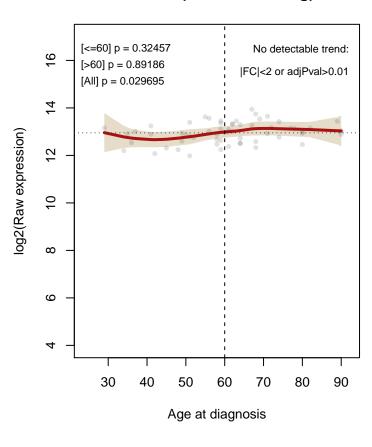






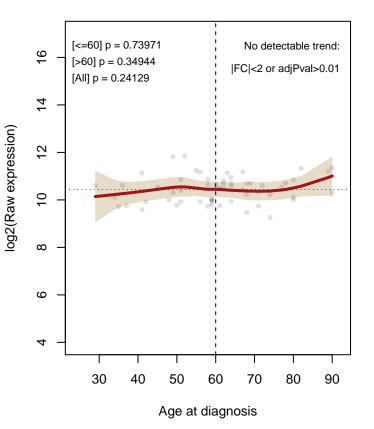
PEBP1 (non-ER binding)

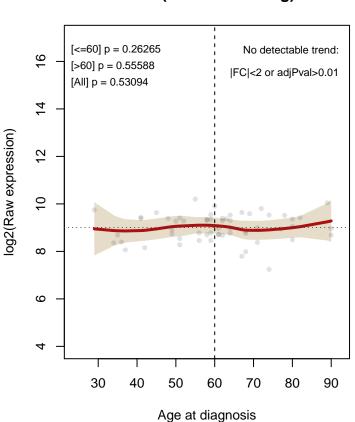


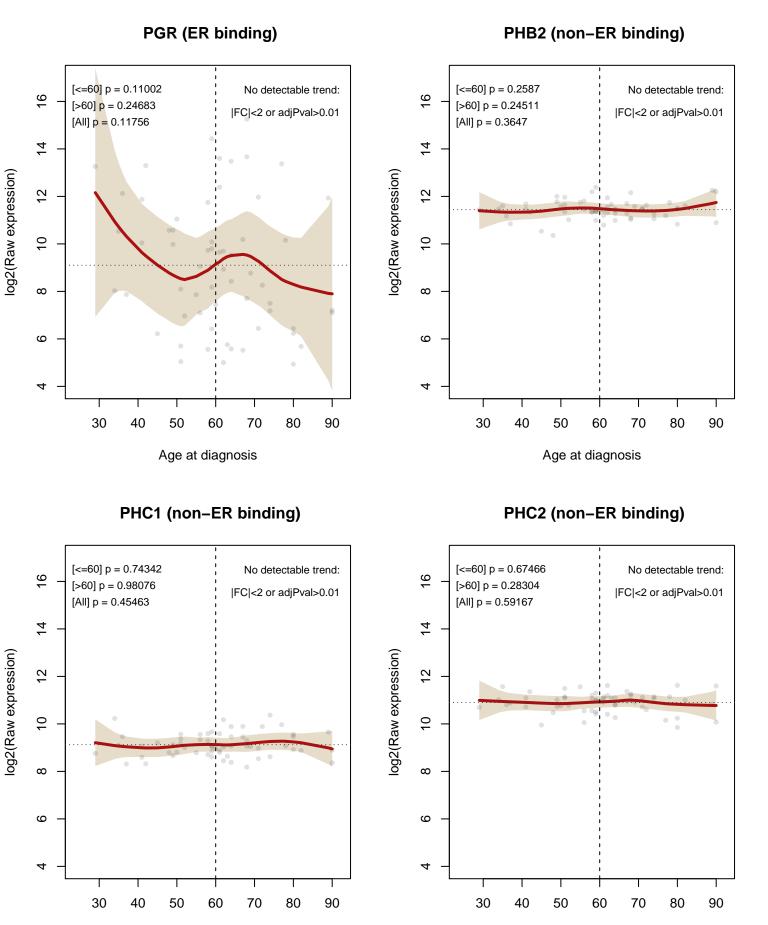


PELP1 (non-ER binding)

PGP (non-ER binding)



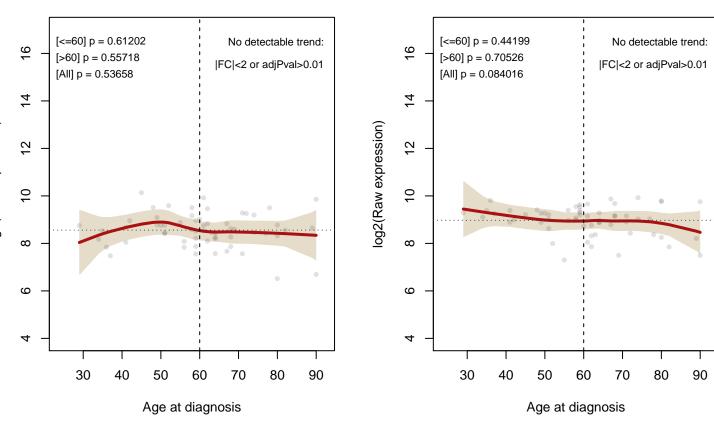




Age at diagnosis

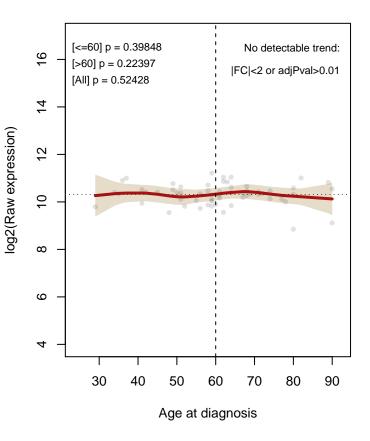
Age at diagnosis

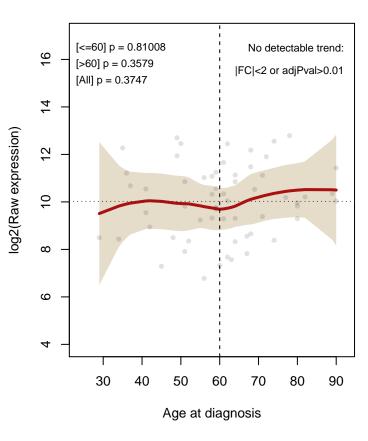
PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.73179No detectable trend: [<=60] p = 0.78378No detectable trend: 16 16 [>60] p = 0.98326 [>60] p = 0.38314 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.67113[AII] p = 0.92784 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 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|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.53658[All] p = 0.0840164 4 log2(Raw expression) 12 12



PIP5K1C (non-ER binding)

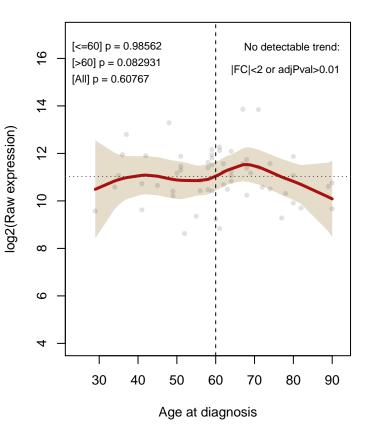
PLAU (non-ER binding)

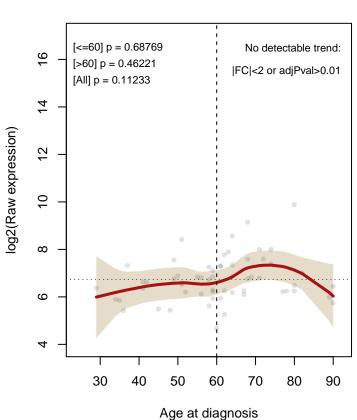


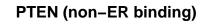


PODXL (non-ER binding)

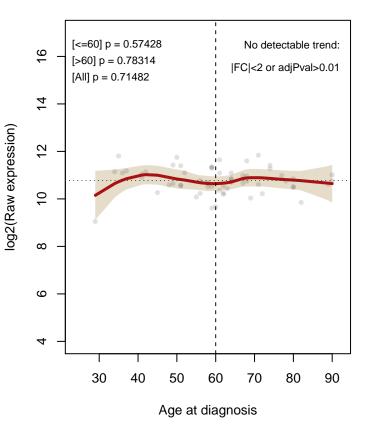
PPARG (ER binding)

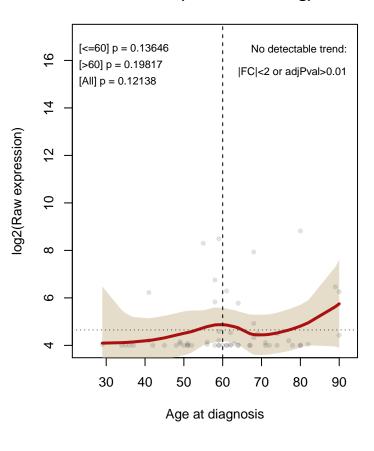






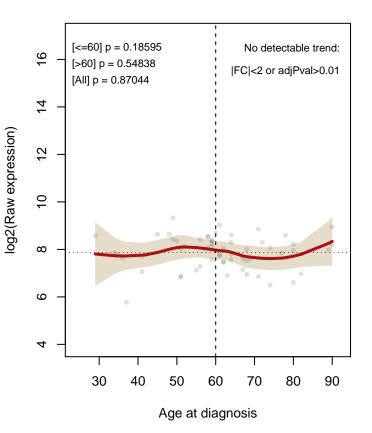
PYDC1 (non-ER binding)

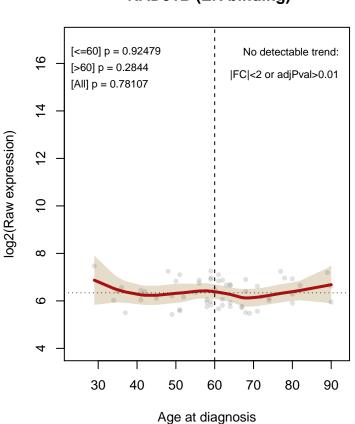




RAD51 (non-ER binding)

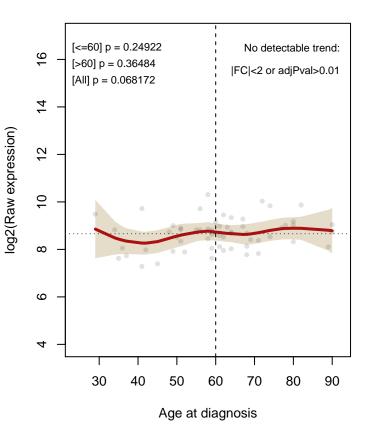
RAD51B (ER binding)

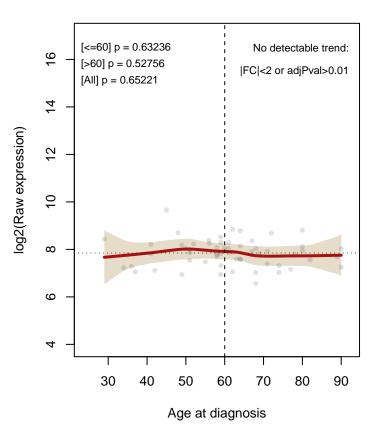




RAD51C (non-ER binding)

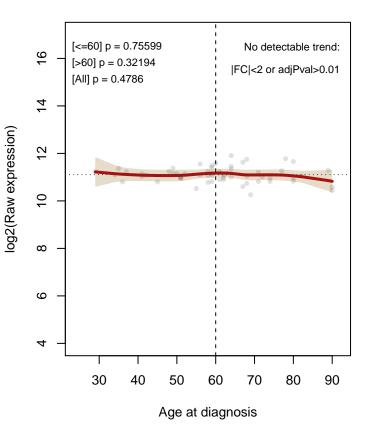
RAD51D (non-ER binding)

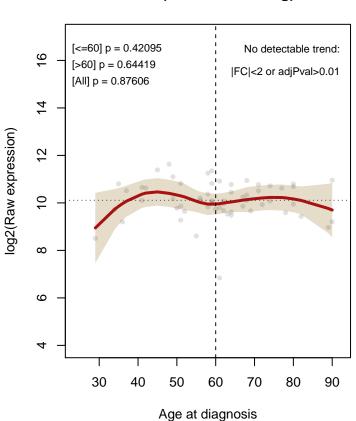


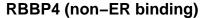


RAF1 (non-ER binding)

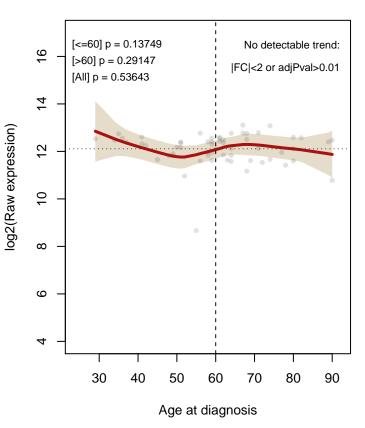
RB1 (non-ER binding)

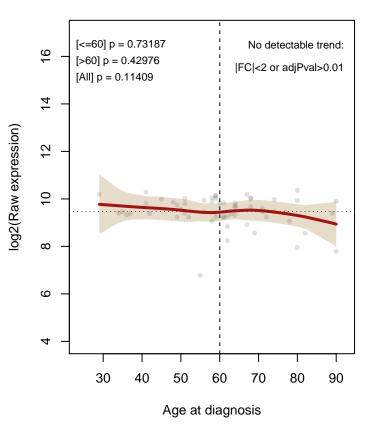






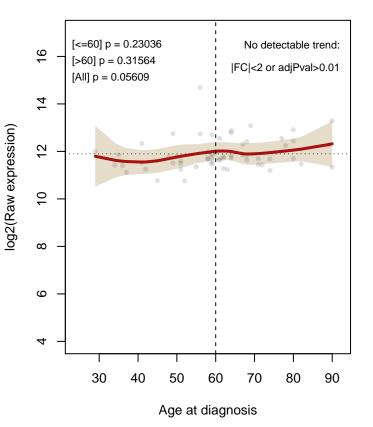
nding) RBBP5 (non–ER binding)

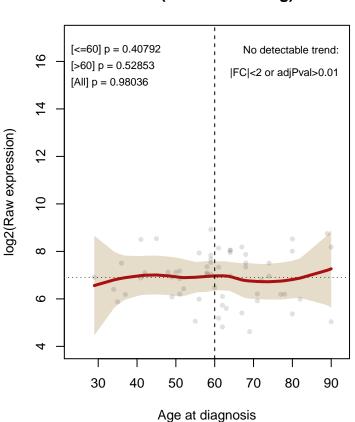


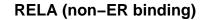


RBBP7 (non-ER binding)

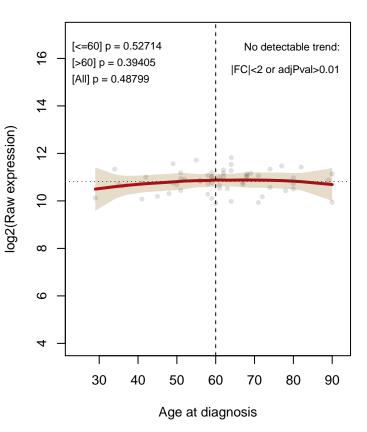
REL (non-ER binding)

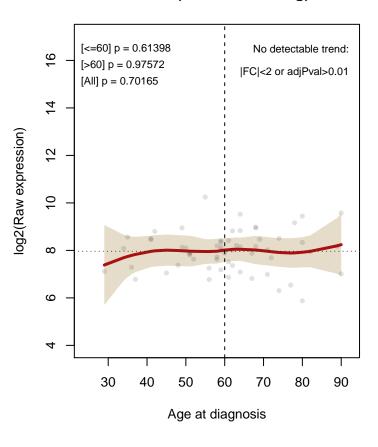






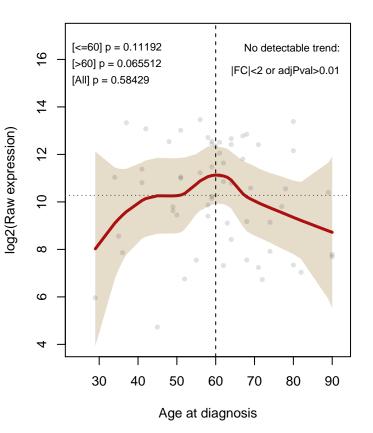
RELB (non-ER binding)

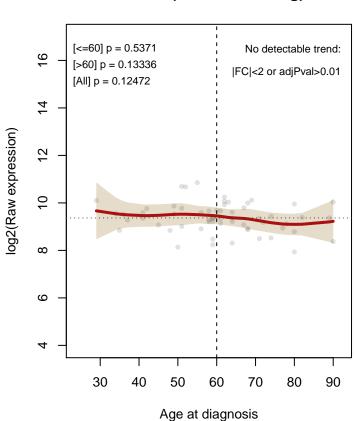




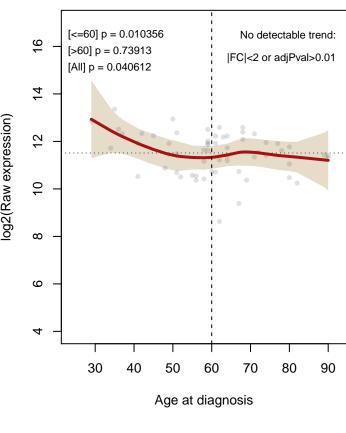
RET (ER binding)

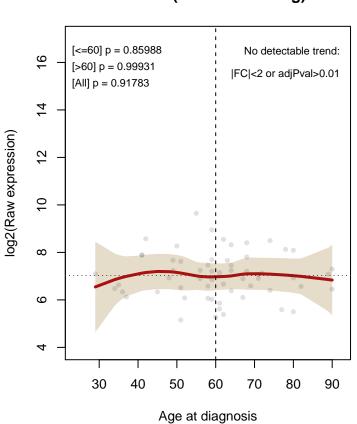
RING1 (non-ER binding)

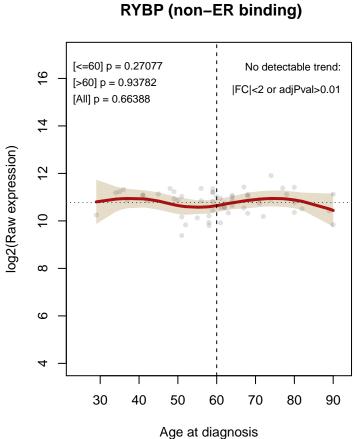




RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.59694No detectable trend: [<=60] p = 0.010356 16 16 [>60] p = 0.4497 [>60] p = 0.73913 |FC|<2 or adjPval>0.01 [All] p = 0.87655[All] p = 0.0406124 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 Age at diagnosis **RUNX3 (non-ER binding)**







SCMH1 (non-ER binding)

[<=60] p = 0.85528

[>60] p = 0.65666

[AII] p = 0.7668

30

40

50

16

4

12

10

ω

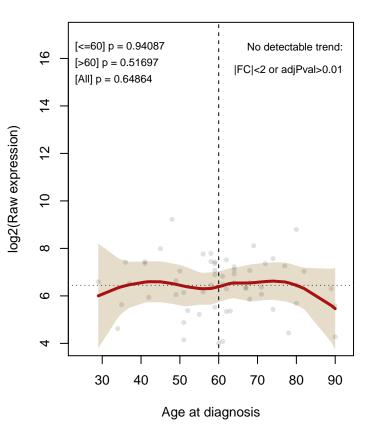
9

log2(Raw expression)

No detectable trend:

|FC|<2 or adjPval>0.01

SCML2 (non-ER binding)



SCML4 (non-ER binding)

Age at diagnosis

60

70

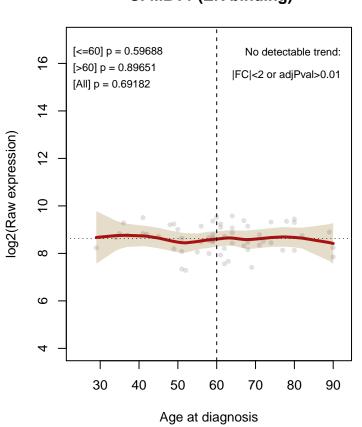
80

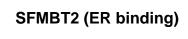
90

[<=60] p = 0.93826No detectable trend: 16 [>60] p = 0.73075 |FC|<2 or adjPval>0.01 [All] p = 0.812684 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

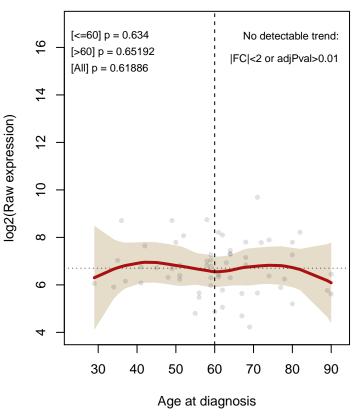
Age at diagnosis

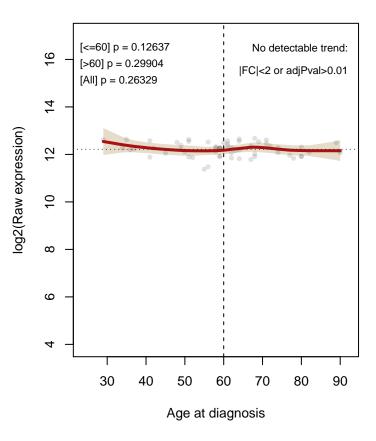
SFMBT1 (ER binding)





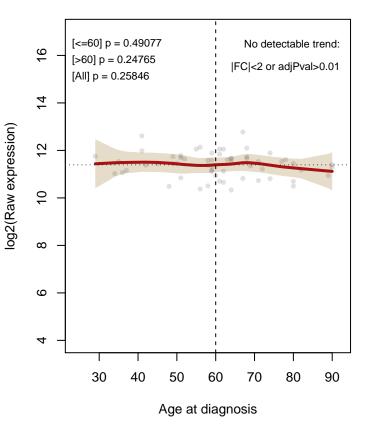
SFPQ (non-ER binding)

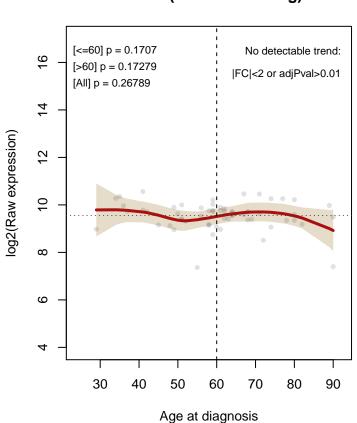




SHC1 (non-ER binding)

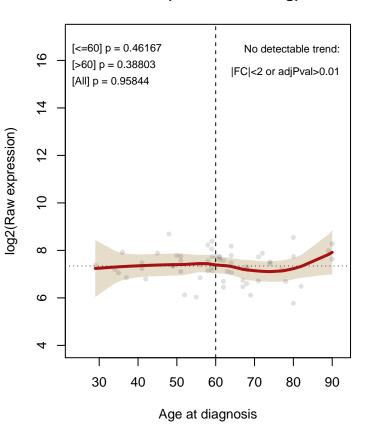
SIRT1 (non-ER binding)

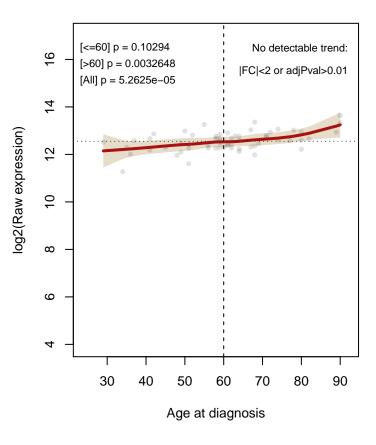




SKP2 (non-ER binding)

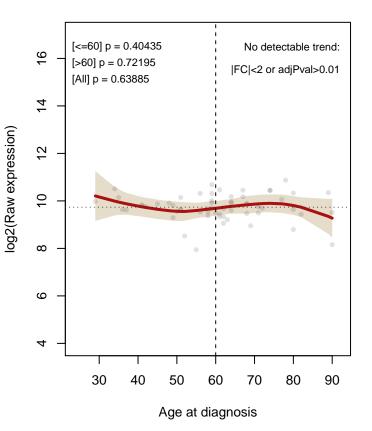
SLC25A3 (non-ER binding)

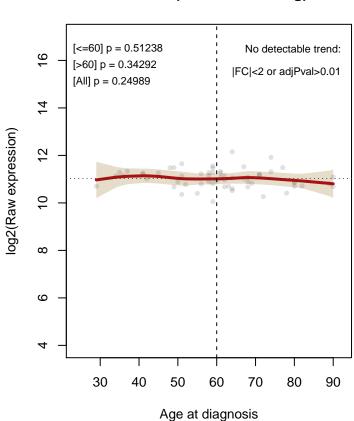




SMAD1 (non-ER binding)

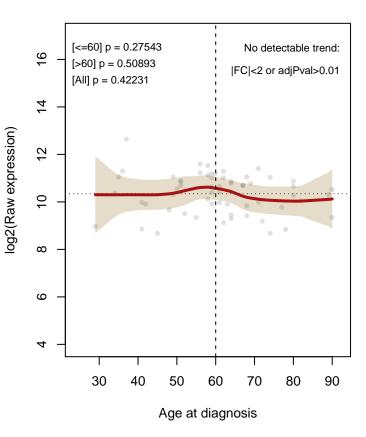
SMAD2 (non-ER binding)

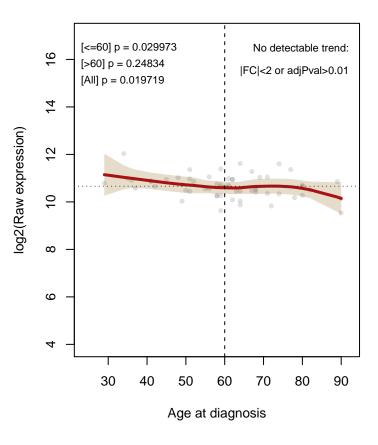




SMAD3 (ER binding)

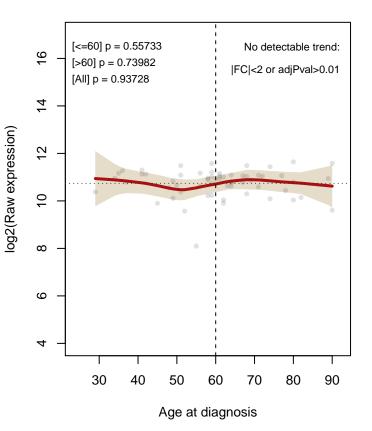
SMAD4 (non-ER binding)

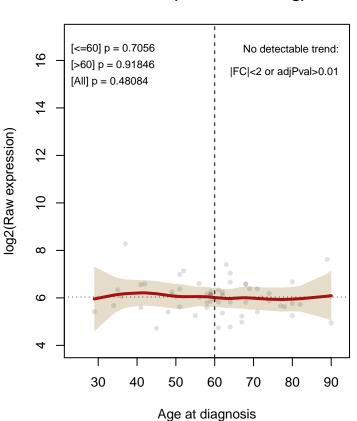


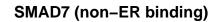


SMAD5 (non-ER binding)

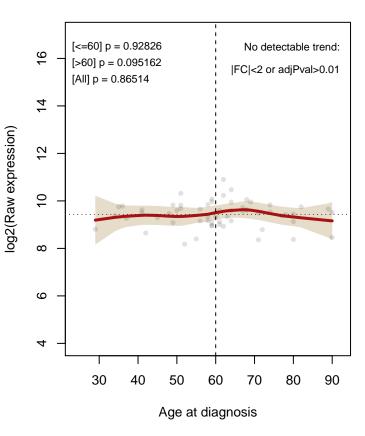
SMAD6 (non-ER binding)

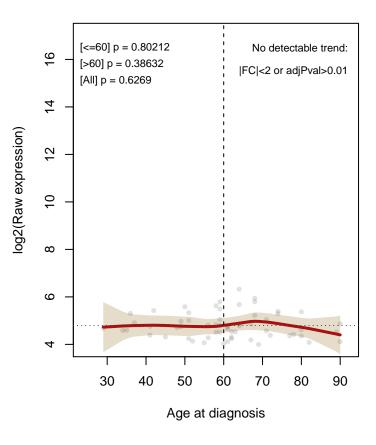






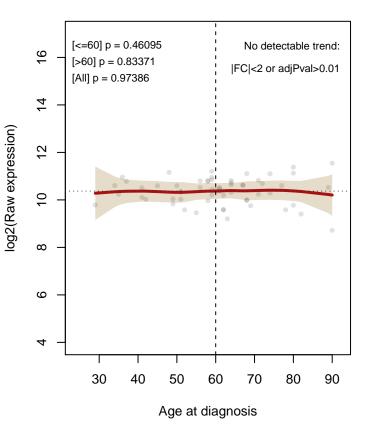
SMAD9 (non-ER binding)

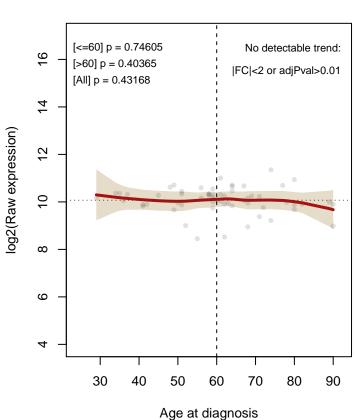


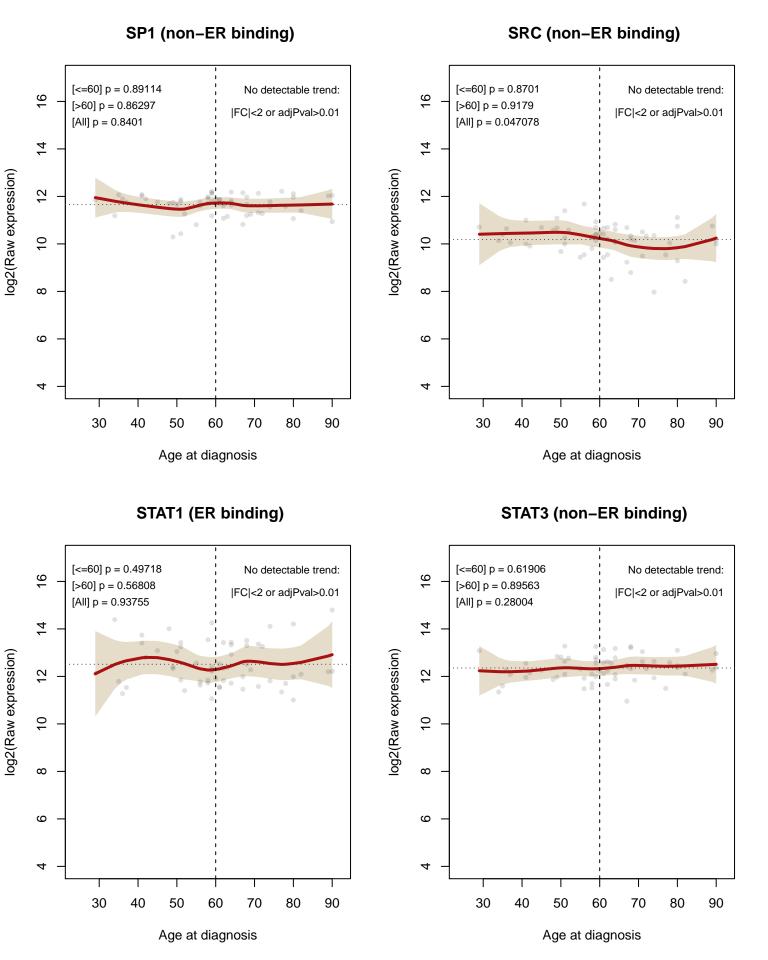


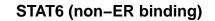
SOS1 (non-ER binding)

SOS2 (non-ER binding)

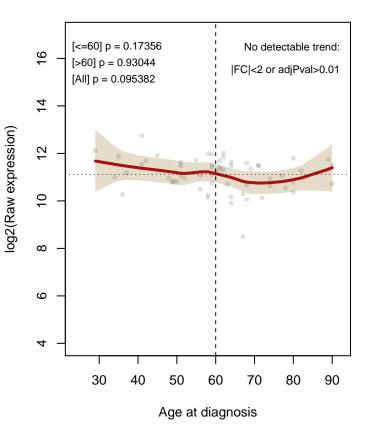


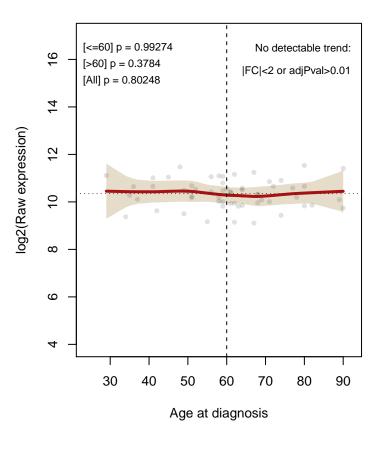






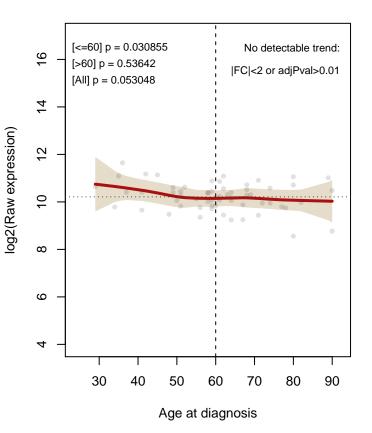
SUZ12 (non-ER binding)

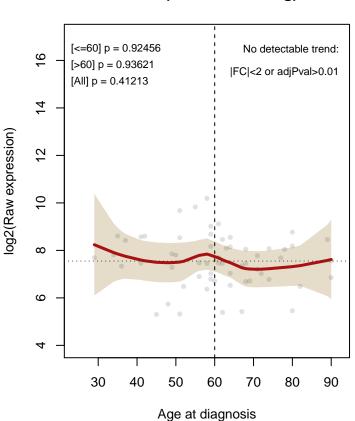




TCF3 (non-ER binding)

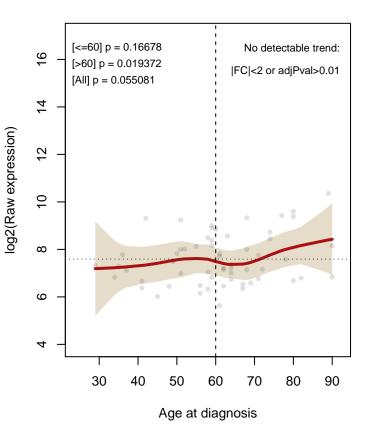
TCF7 (non-ER binding)

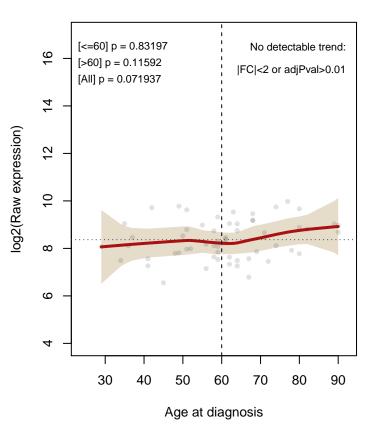






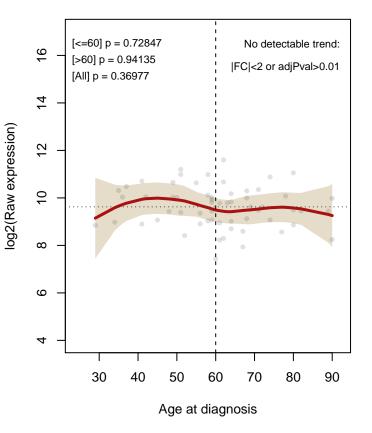
TCF7L2 (non-ER binding)

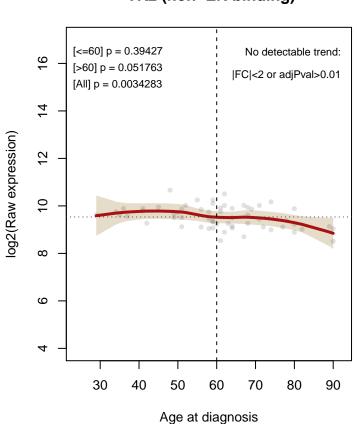


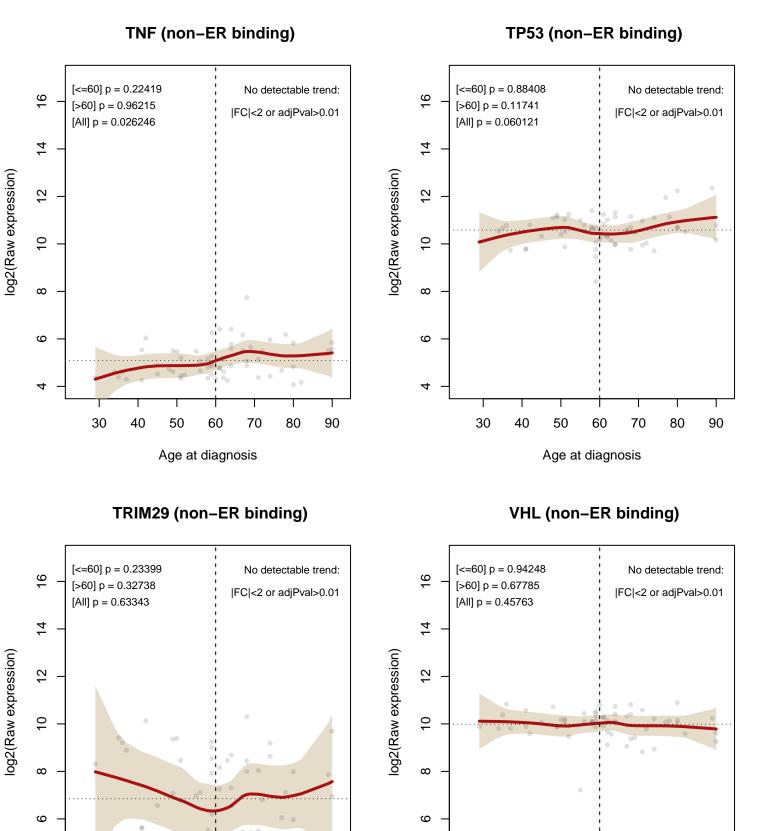


TGFB1 (non-ER binding)

TK2 (non-ER binding)

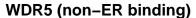




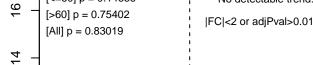


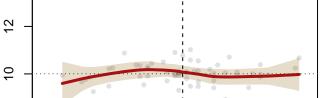
Age at diagnosis

Age at diagnosis



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





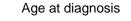
log2(Raw expression)



50

30

40



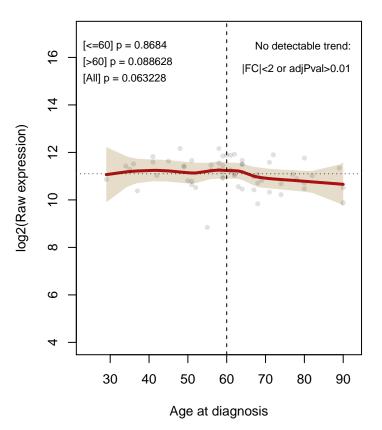
60

70

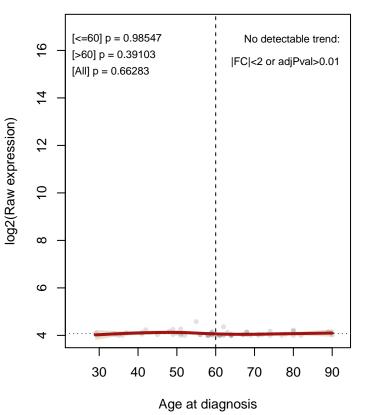
80

90

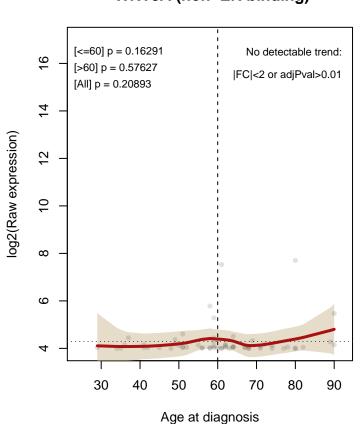
WHSC1 (non-ER binding)

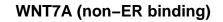


WNT1 (non-ER binding)

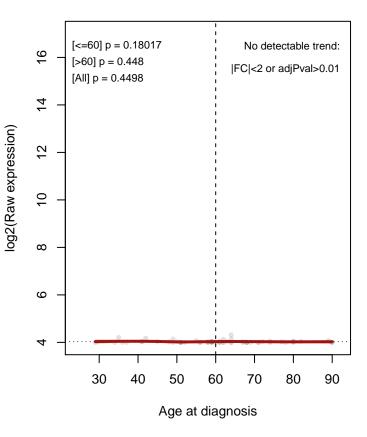


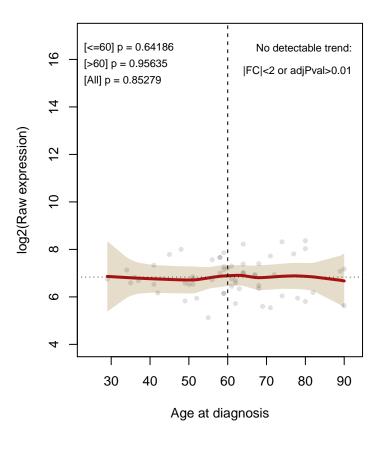
WNT3A (non-ER binding)





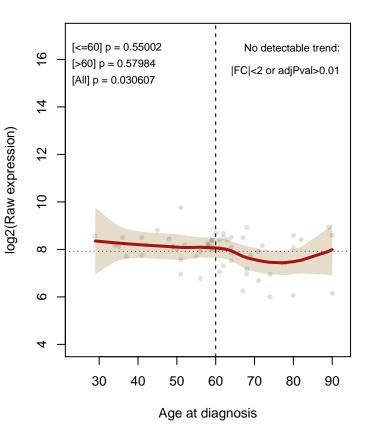
XRCC2 (non-ER binding)

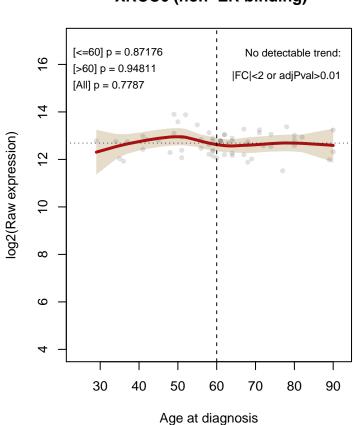




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

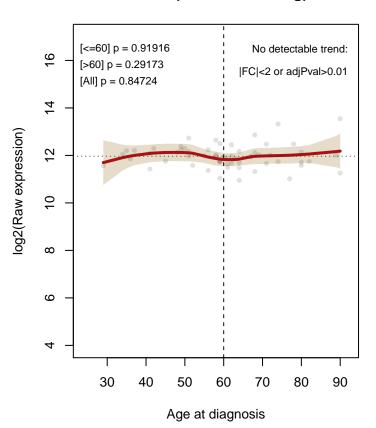




YAF2 (non-ER binding)

[<=60] p = 0.84462No detectable trend: 16 [>60] p = 0.084945 |FC|<2 or adjPval>0.01 [All] p = 0.122864 log2(Raw expression) 12 10 ω 9 4 30 40 50 60 70 80 90

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

