

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.9488No detectable trend: [<=60] p = 0.98977No detectable trend: 16 16 [>60] p = 0.90067 [>60] p = 0.49739 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.86213[All] p = 0.987284 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.48203No detectable trend: [<=60] p = 0.72979No detectable trend: 16 16 [>60] p = 0.91308 [>60] p = 0.85082 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.29986[All] p = 0.974044 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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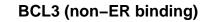
Age at diagnosis

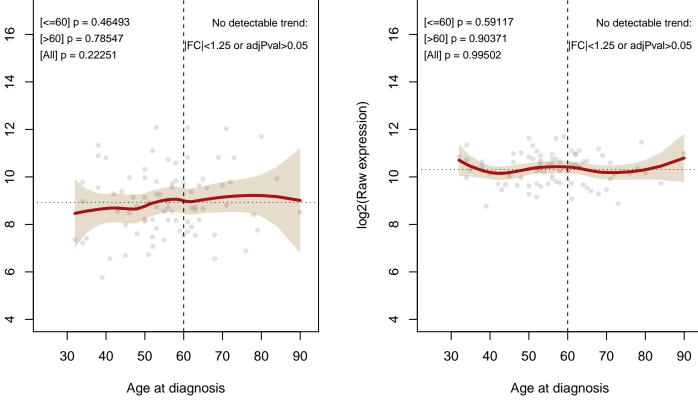
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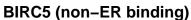
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BCL2 (non–ER binding) [<=60] p = 0.46493 [>60] p = 0.78547 [All] p = 0.22251 | No detectable | FC|<1.25 or adjPv

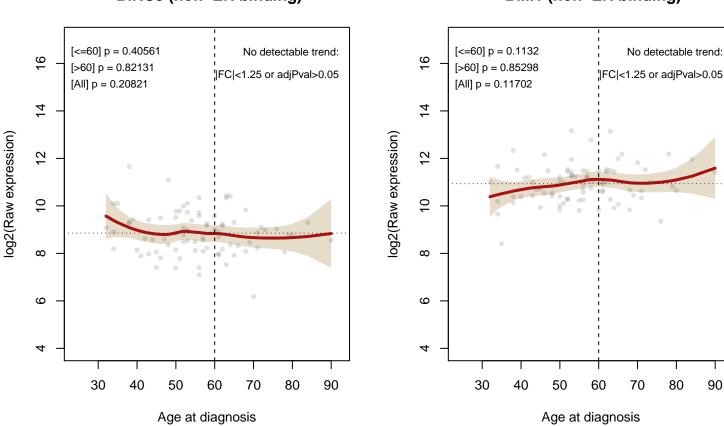
log2(Raw expression)







BMI1 (non-ER binding)



BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.58261No detectable trend: [<=60] p = 0.15671No detectable trend: 16 16 [>60] p = 0.87881 [>60] p = 0.55143 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.62321[All] p = 0.0550124 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.11927No detectable trend: [<=60] p = 0.19852No detectable trend: 16 16 [>60] p = 0.86911 [>60] p = 0.12085 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.67941[All] p = 0.428324 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

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CBX2 (non-ER binding) **CBX4** (non-ER binding) [<=60] p = 0.23936No detectable trend: [<=60] p = 0.13394No detectable trend: 16 16 [>60] p = 0.65207 [>60] p = 0.21033 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.52792[AII] p = 0.307784 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 CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.45245No detectable trend: [<=60] p = 0.1713No detectable trend: 16 16 [>60] p = 0.19913 [>60] p = 0.59641 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.50326[All] p = 0.327214 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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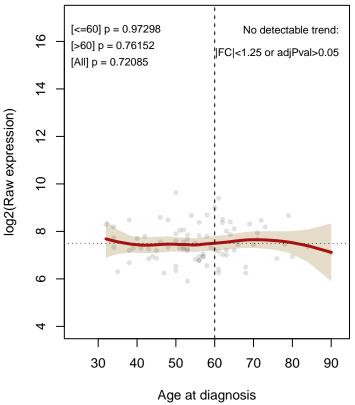
Age at diagnosis

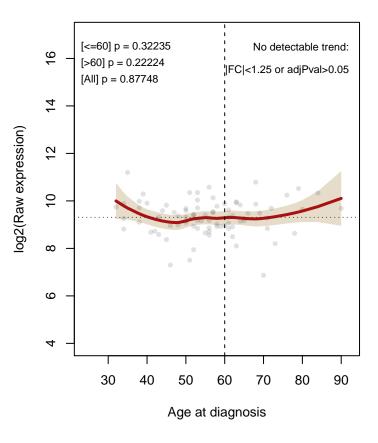
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CBX8 (non-ER binding)

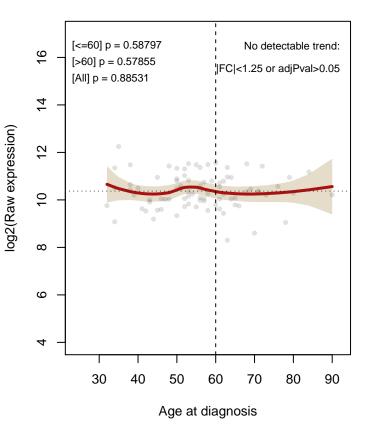
CCNA2 (non-ER binding)

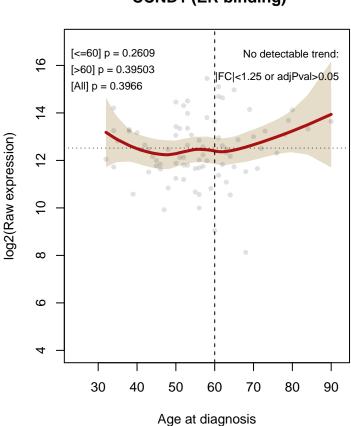




CCNB1 (non-ER binding)

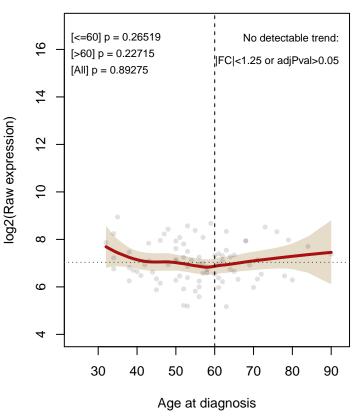
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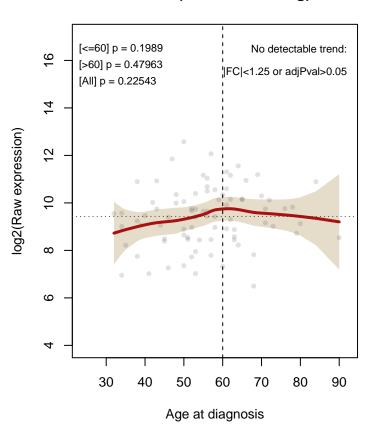






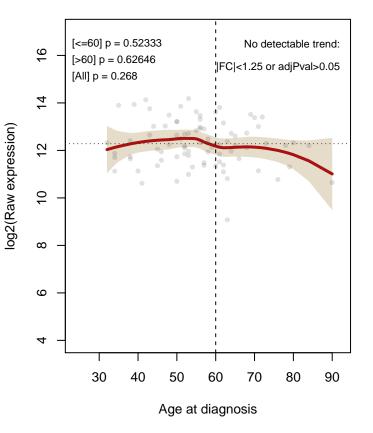
CD163 (non-ER binding)

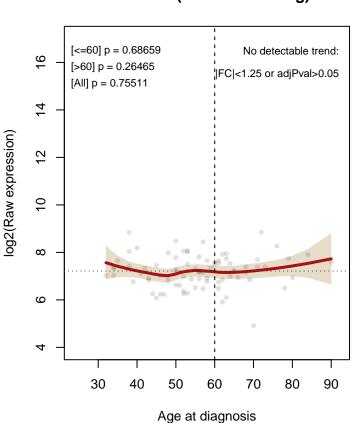


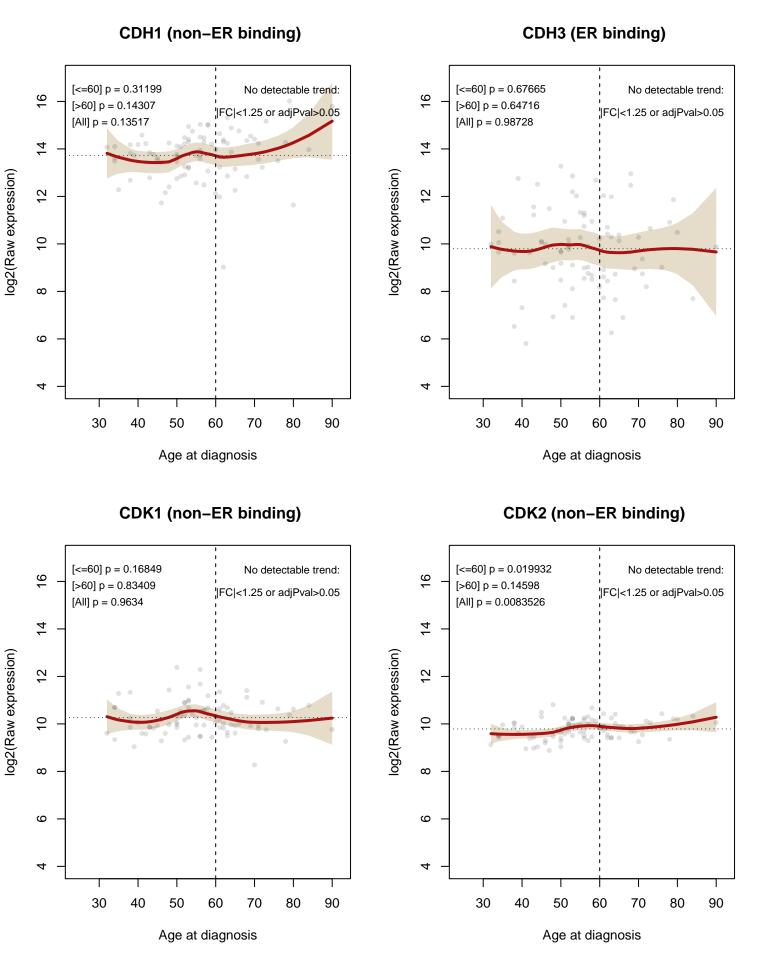


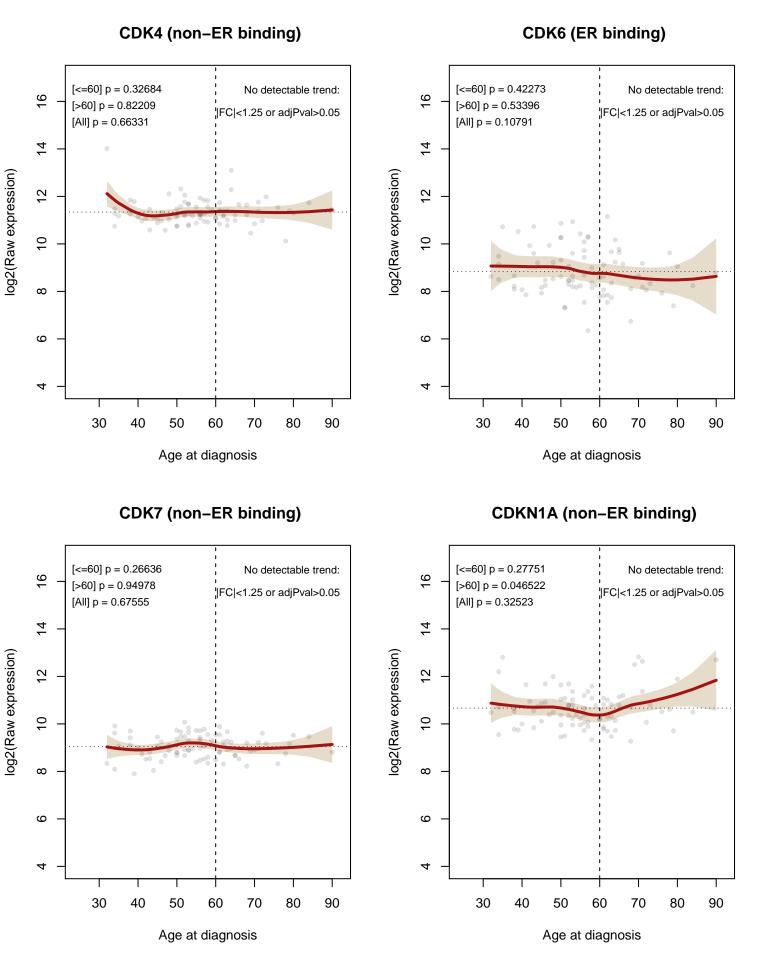
CD44 (non-ER binding)

CDC25C (non-ER binding)



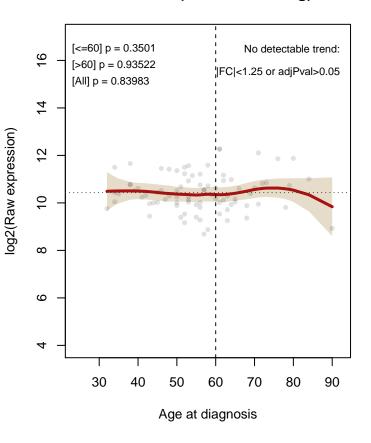


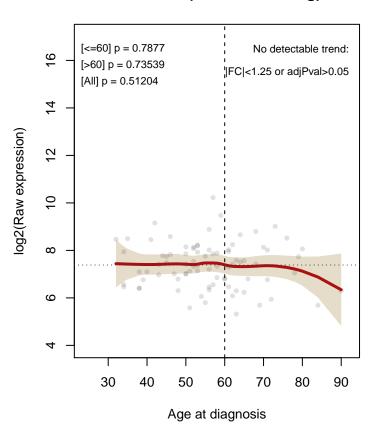




CDKN1B (non-ER binding)

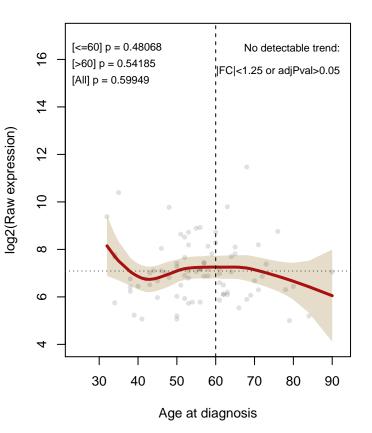
CDKN1C (non-ER binding)

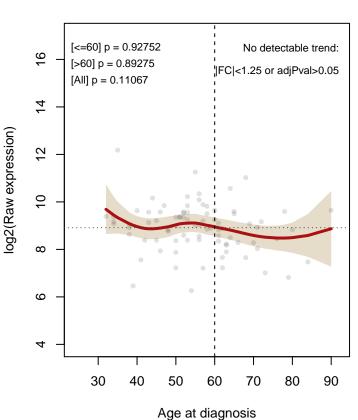


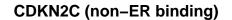


CDKN2A (non-ER binding)

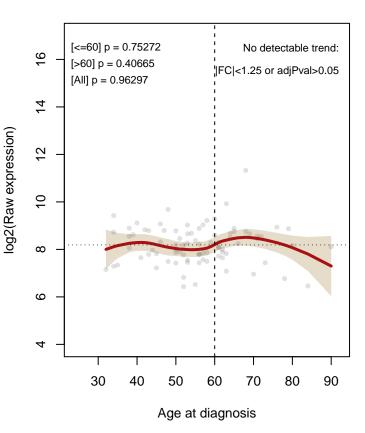
CDKN2B (non-ER binding)

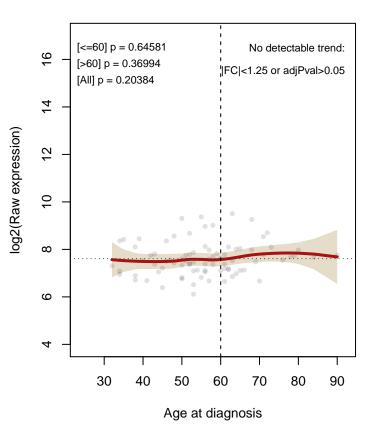






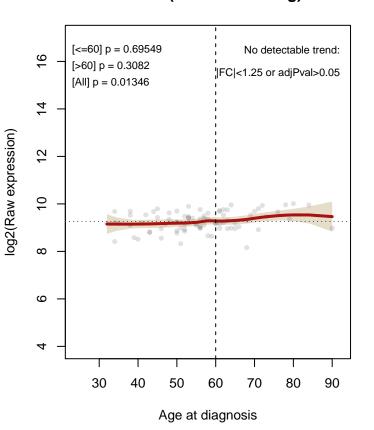
CDKN2D (non-ER binding)

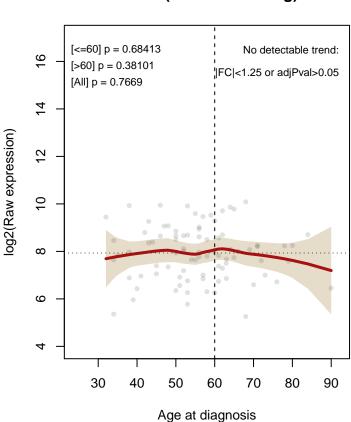


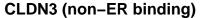


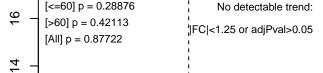
CHUK (non-ER binding)

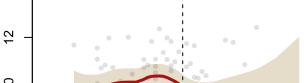
CIITA (non-ER binding)





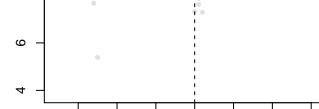






19 ω

log2(Raw expression)



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Age at diagnosis

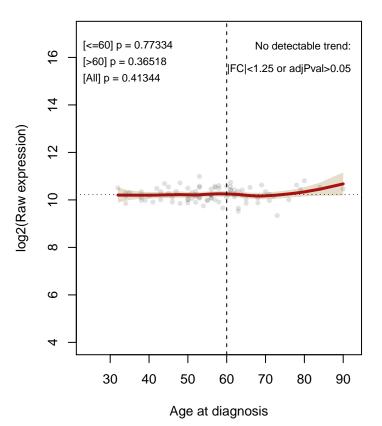
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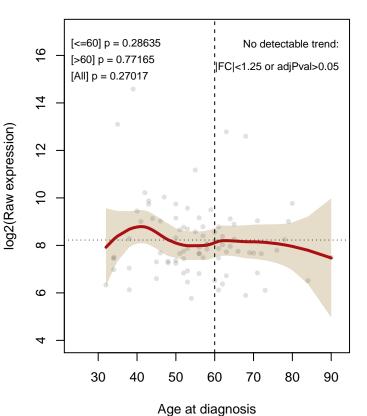
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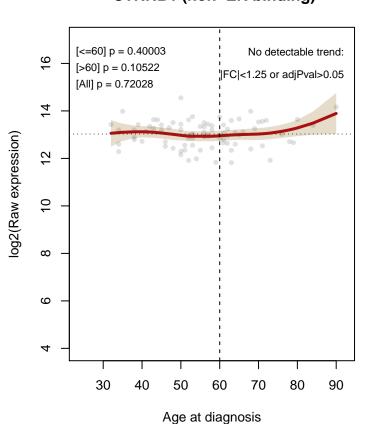
CREB1 (non-ER binding)



CRYAB (non-ER binding)

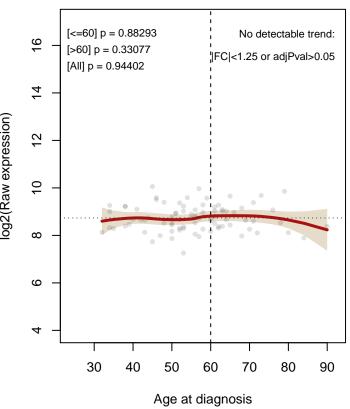


CTNNB1 (non-ER binding)

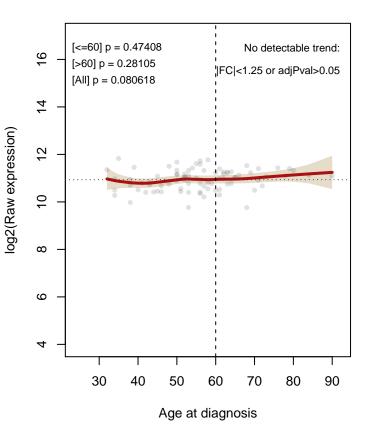


DLC1 (ER binding) [<=60] p = 0.94669No detectable trend: 16 [>60] p = 0.9966|FC|<1.25 or adjPval>0.05 [All] p = 0.91154 log2(Raw expression) log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90 Age at diagnosis

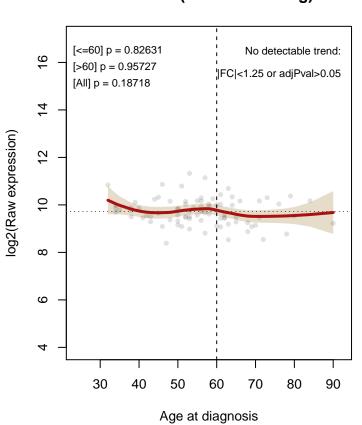
DMAP1 (non-ER binding)



DNMT1 (non-ER binding)

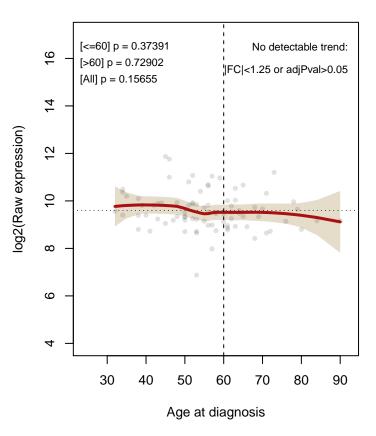


DNMT3A (non-ER binding)



DNMT3B (non–ER binding) [<=60] p = 0.22814 | No detectable trend: [>60] p = 0.70003 | [All] p = 0.65656 | Property | No detectable trend: ||FC|<1.25 or adjPval>0.05

DVL1 (non-ER binding)



E2F1 (non-ER binding)

Age at diagnosis

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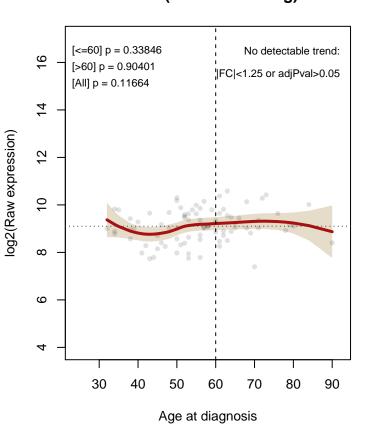
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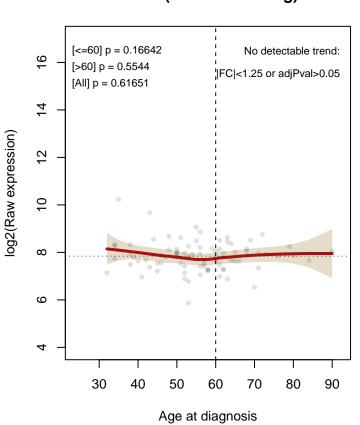
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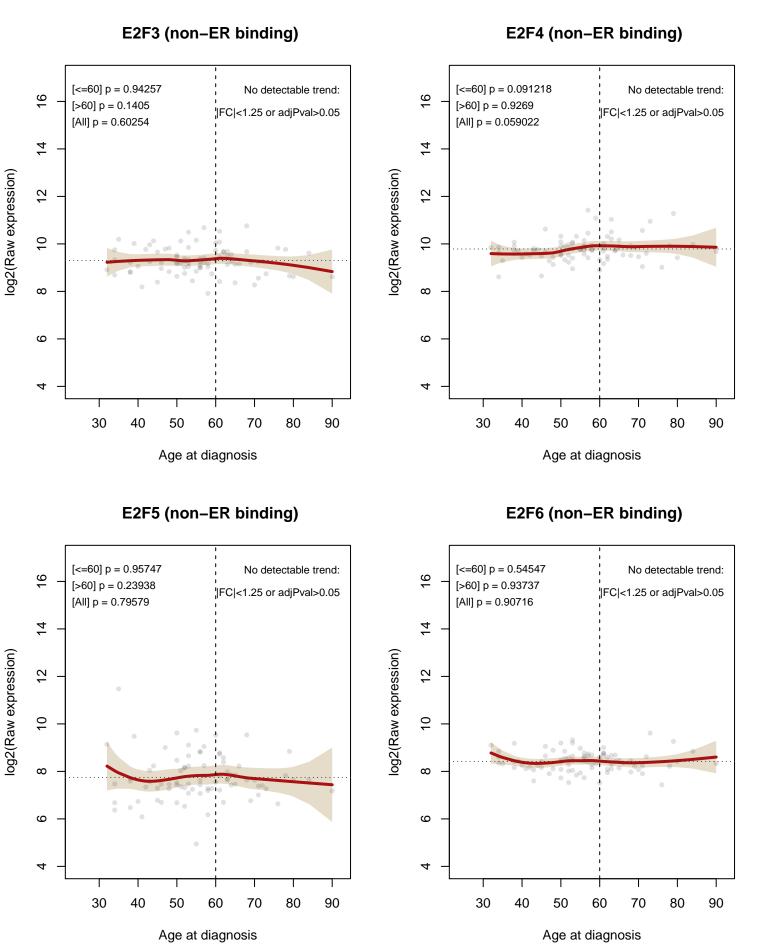
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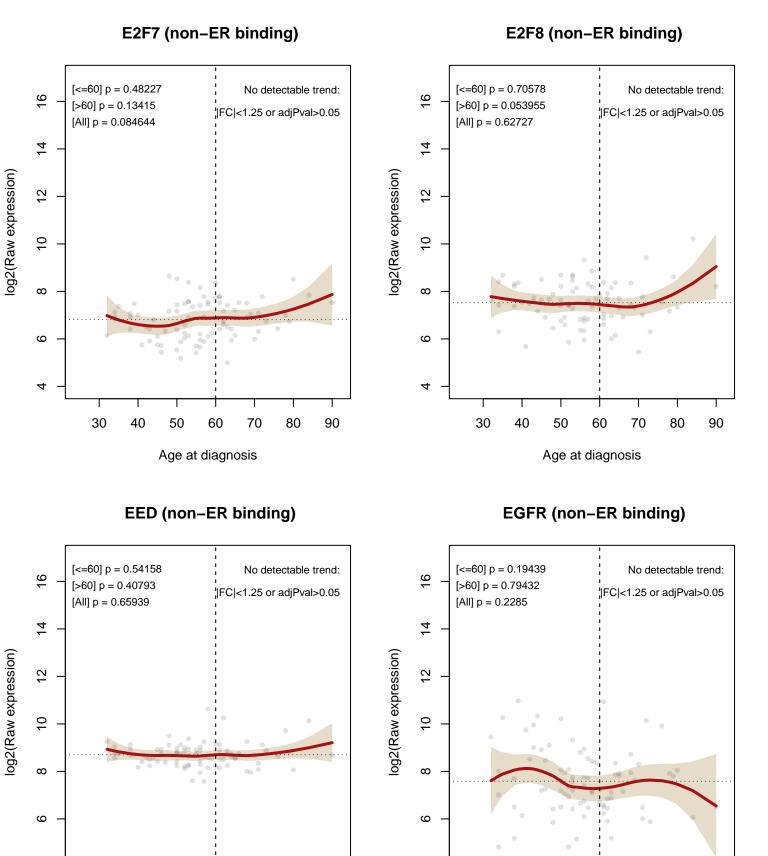
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E2F2 (non-ER binding)





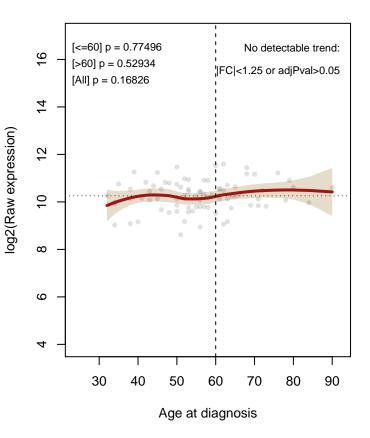


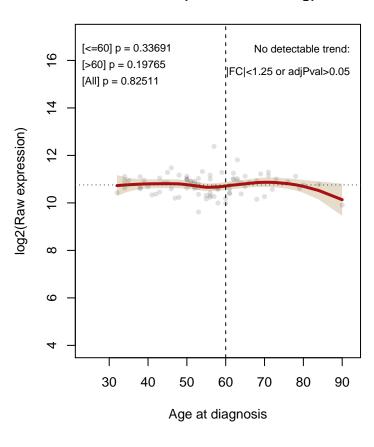
Age at diagnosis

Age at diagnosis



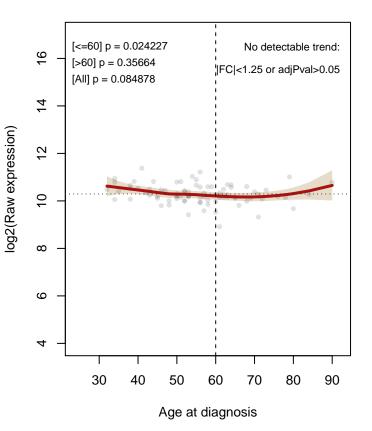
EHMT2 (non-ER binding)

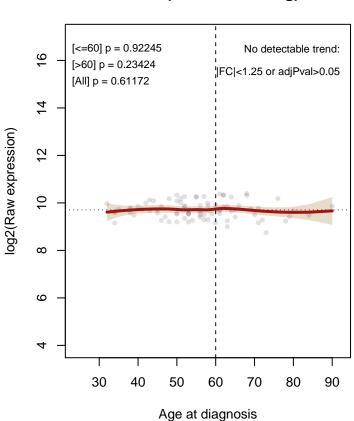




ELAC2 (non-ER binding)

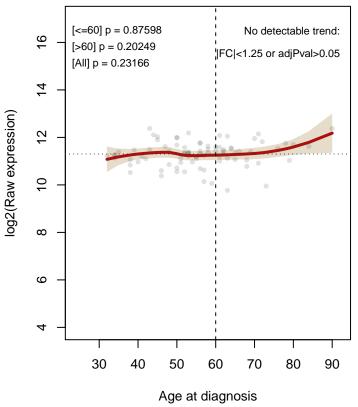
ELK1 (non-ER binding)

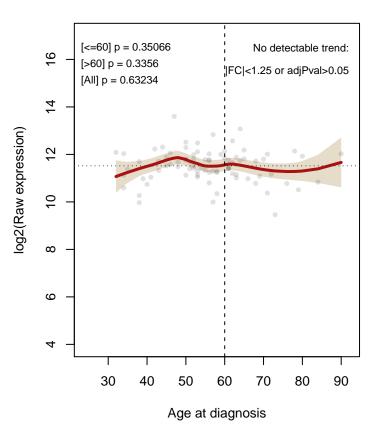






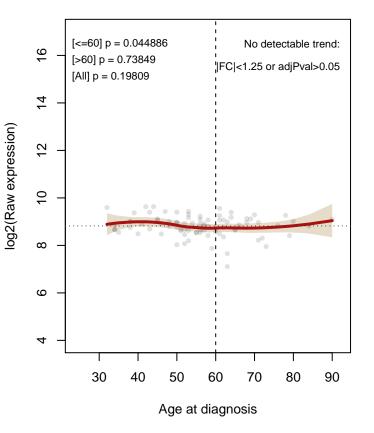
EPAS1 (non-ER binding)

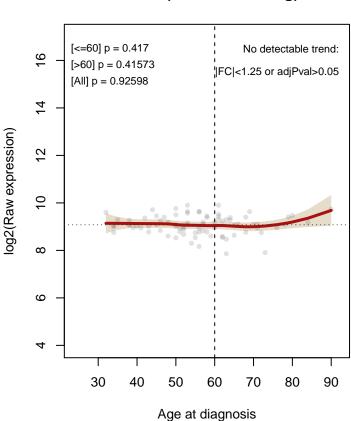


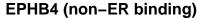


EPC1 (non-ER binding)

EPC2 (non-ER binding)







16

4

12

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ω

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16

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12

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ω

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Age at diagnosis

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log2(Raw expression)

log2(Raw expression)

[>60] p = 0.71275

[All] p = 0.1151

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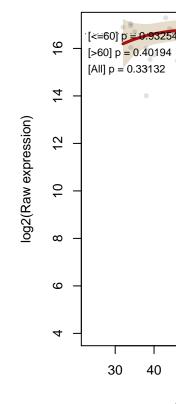
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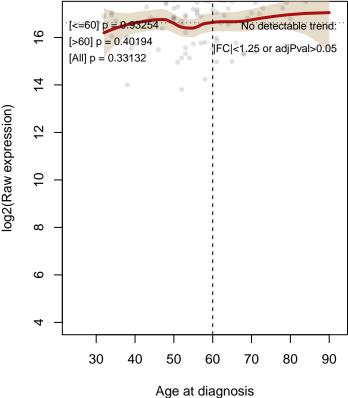
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|FC|<1.25 or adjPval>0.05

ERBB2 (non-ER binding)





ERBB3 (non-ER binding)

Age at diagnosis

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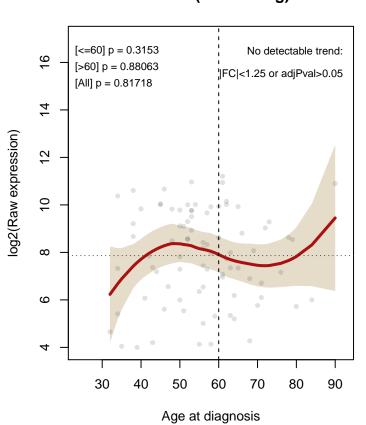
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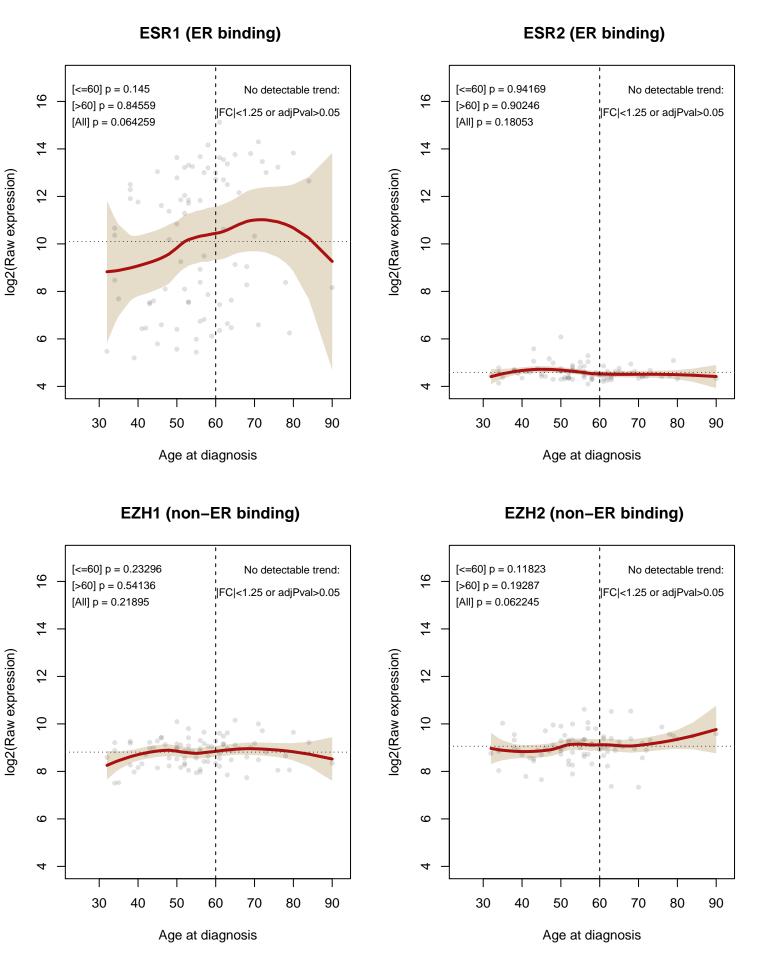
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[<=60] p = 0.78841No detectable trend: [>60] p = 0.7822 |FC|<1.25 or adjPval>0.05 [All] p = 0.52573

ERBB4 (ER binding)





FOSL1 (non-ER binding) FOS (non-ER binding) [<=60] p = 0.23551 No detectable trend: [<=60] p = 0.017163 No detectable trend: 16 16 [>60] p = 0.50131 [>60] p = 0.57932 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.68991[All] p = 0.305374 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 **FOXC1 (ER binding)** FOXA1 (ER binding) [<=60] p = 0.19982No detectable trend: [<=60] p = 0.13397No detectable trend: 16 16 [>60] p = 0.66957[>60] p = 0.70926 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.23961[AII] p = 0.34054 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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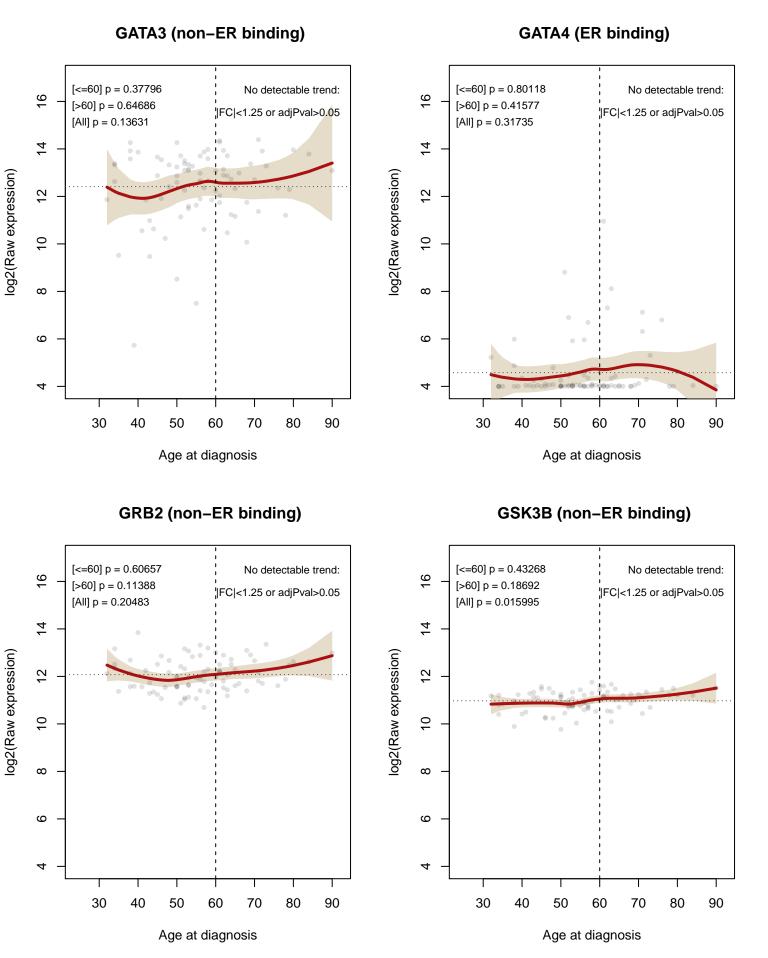
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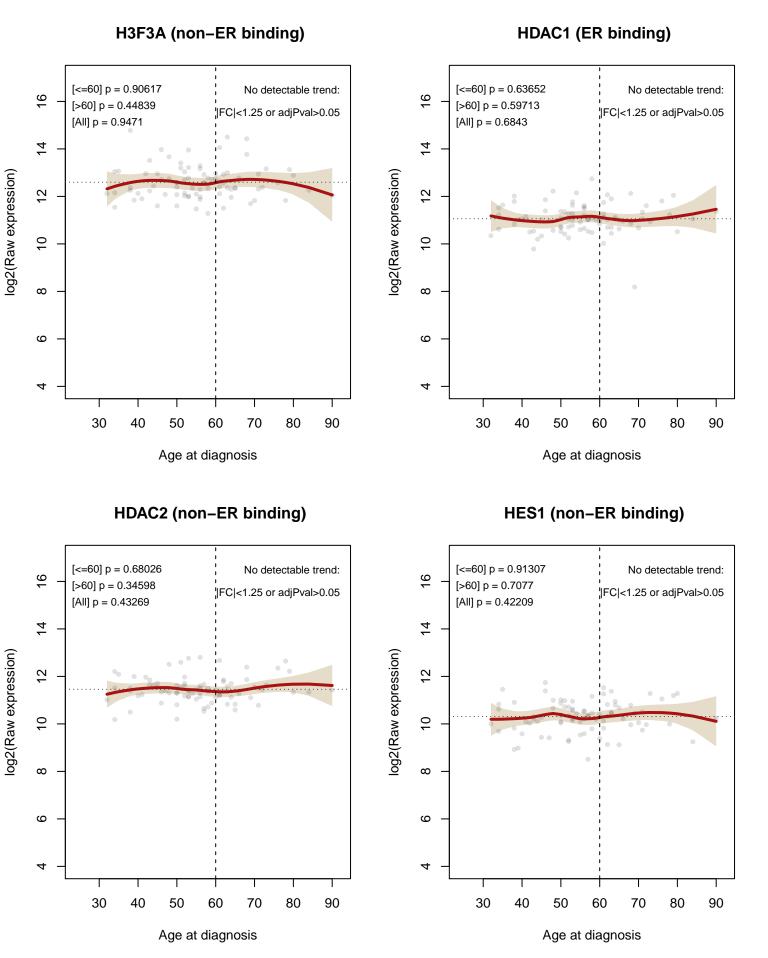
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Age at diagnosis

70

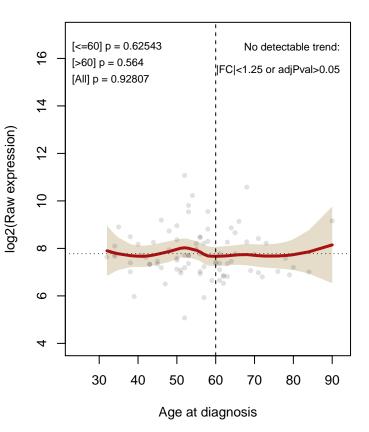
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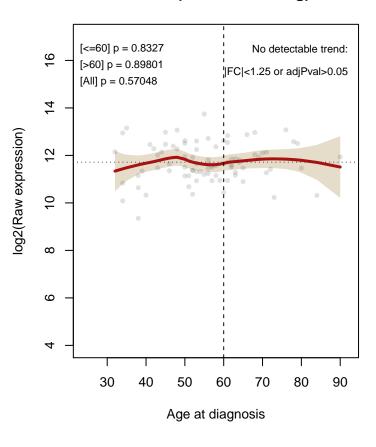






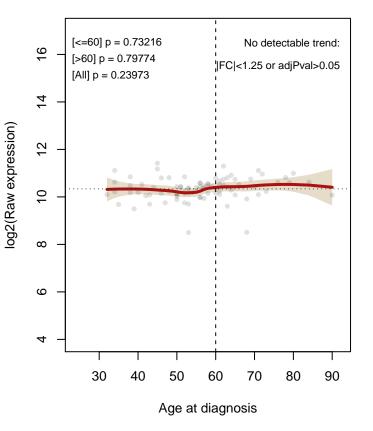
HIF1A (non-ER binding)

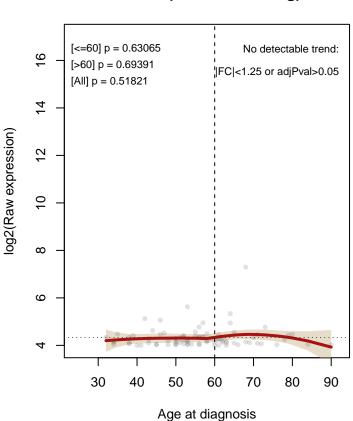




HIF1AN (non-ER binding)

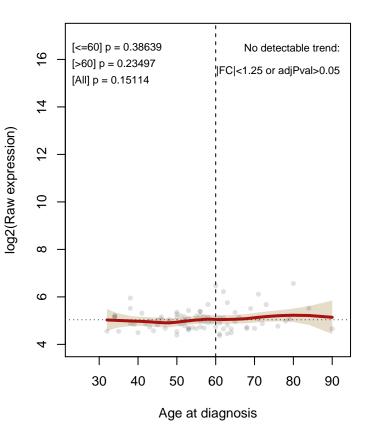
HIF3A (non-ER binding)

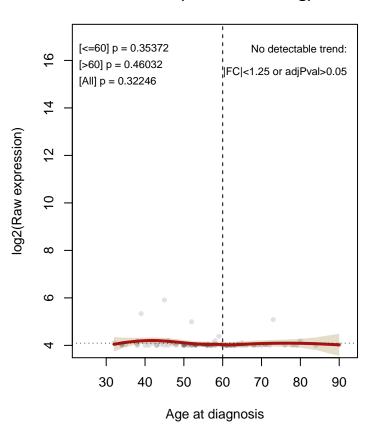




HNF1A (non-ER binding)

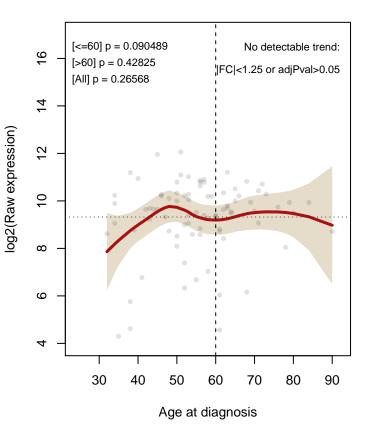
HNF1B (non-ER binding)

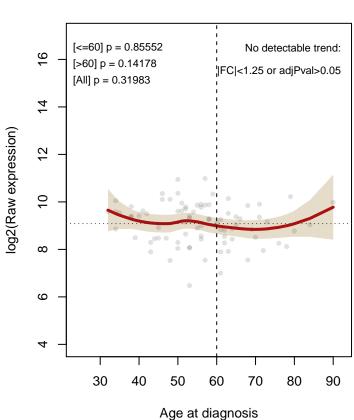


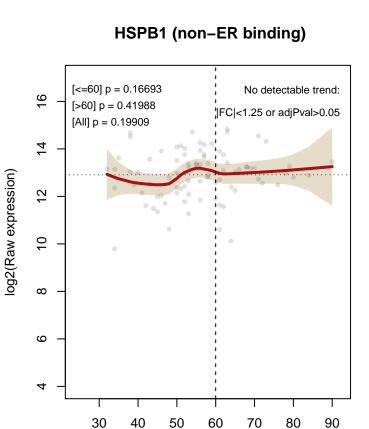


HOXC10 (non-ER binding)

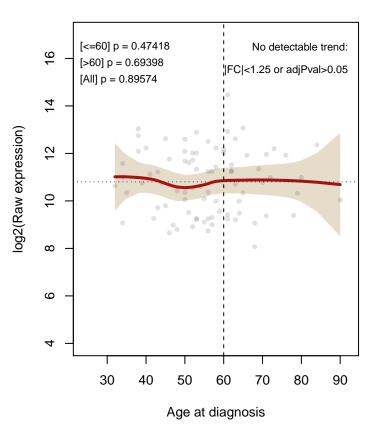
HRAS (non-ER binding)





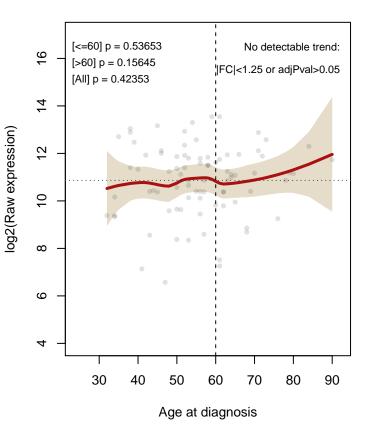


IGF1R (ER binding)

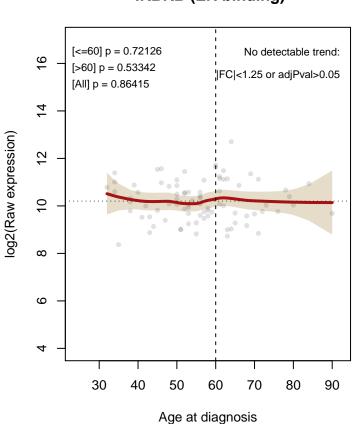


IGFBP2 (non-ER binding)

Age at diagnosis

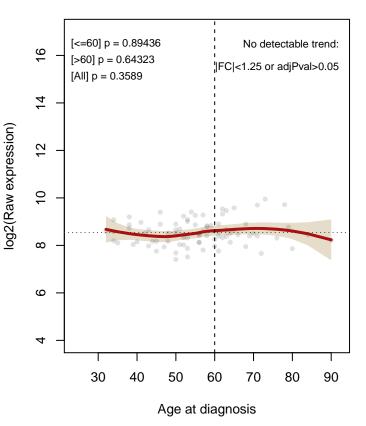


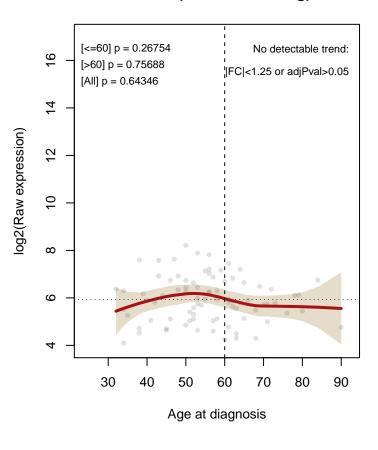
IKBKB (ER binding)





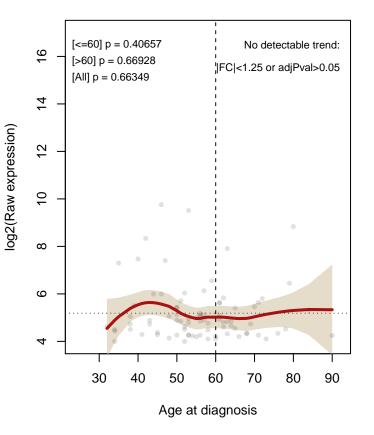
IL2RA (non-ER binding)

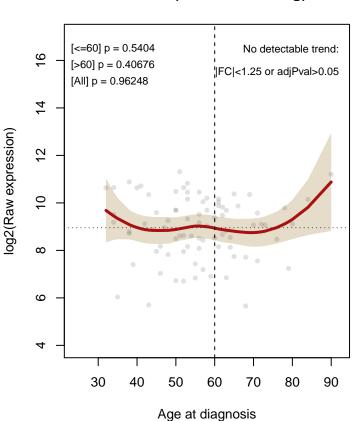


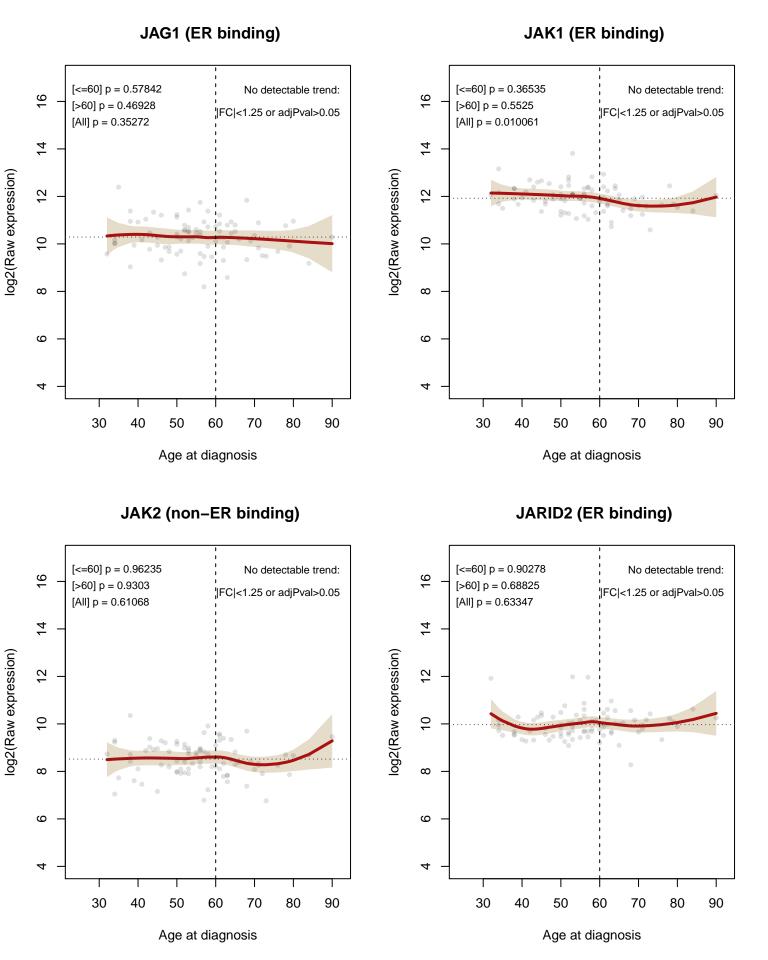


IL6 (non-ER binding)

INPP4B (non-ER binding)

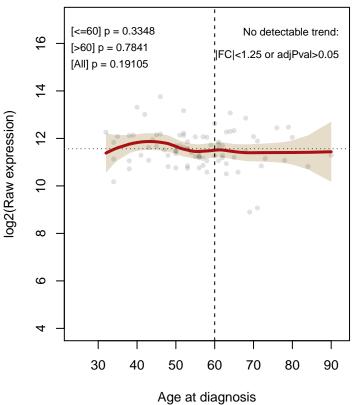


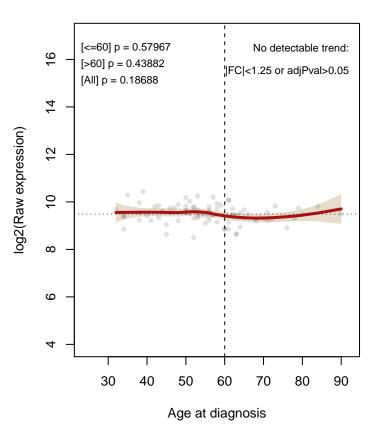






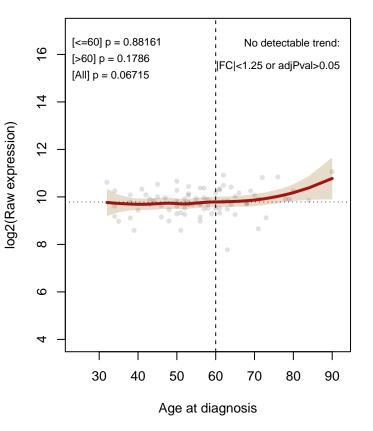
KDM2B (non-ER binding)

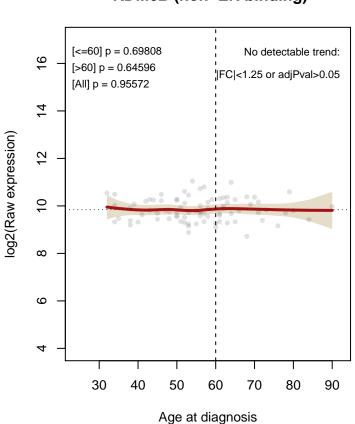


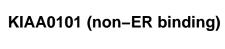


KDM6A (non-ER binding)

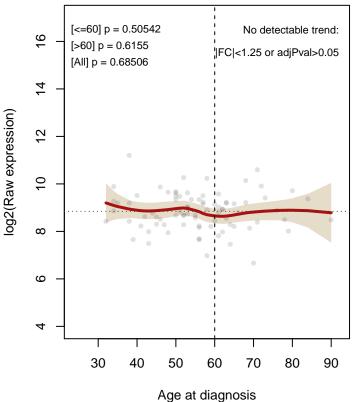
KDM6B (non-ER binding)

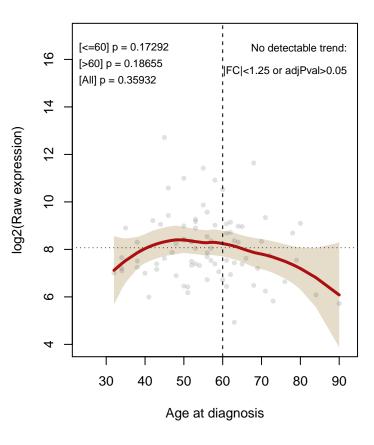






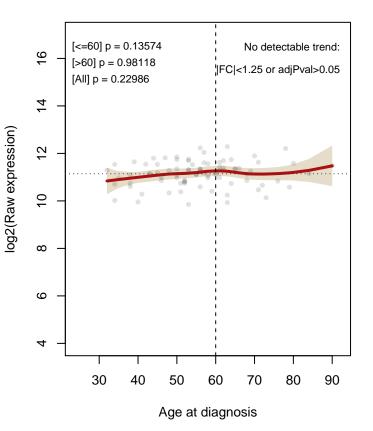
KIT (non-ER binding)

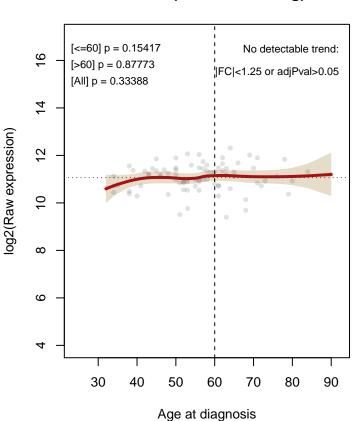


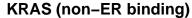


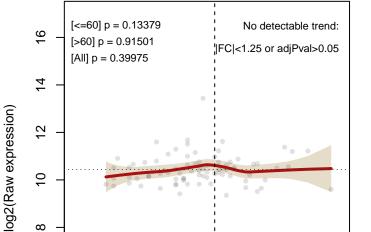
KMT2C (non-ER binding)

KMT2D (non-ER binding)



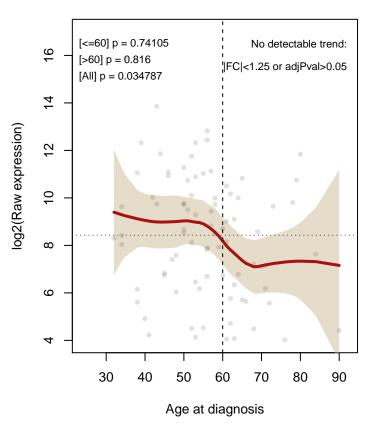






 ∞

KRT5 (non-ER binding)



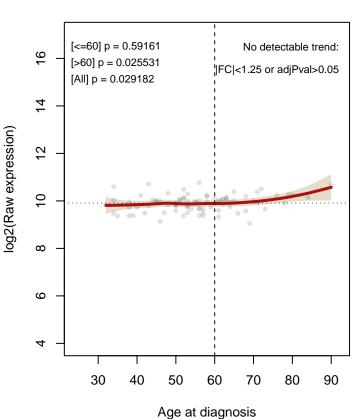
L3MBTL1 (non-ER binding)

Age at diagnosis

[<=60] p = 0.50727No detectable trend: [>60] p = 0.027608 |FC|<1.25 or adjPval>0.05 [All] p = 0.93132log2(Raw expression) ∞

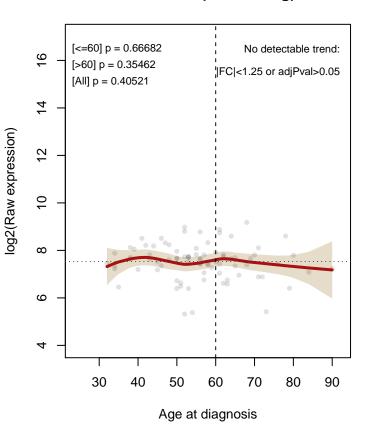
Age at diagnosis

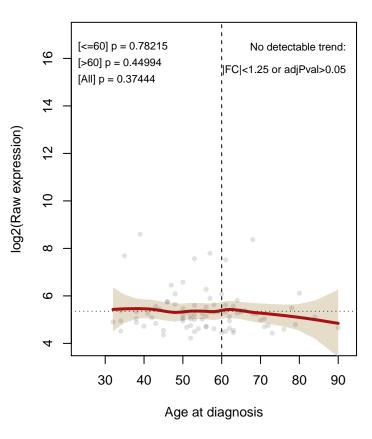
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

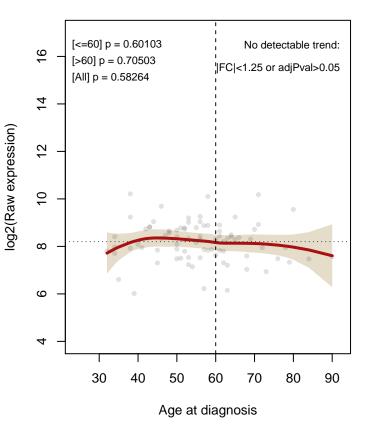
L3MBTL4 (non-ER binding)

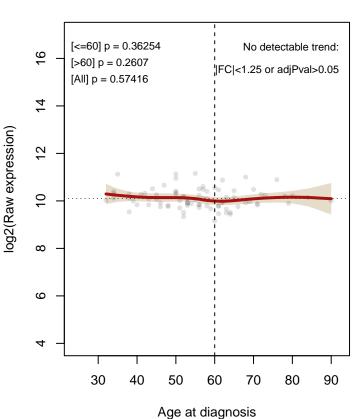




LEF1 (non-ER binding)

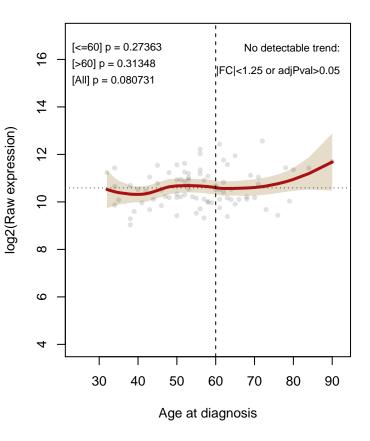
MAP2K1 (non-ER binding)

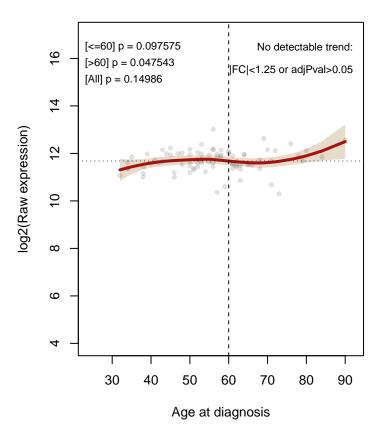






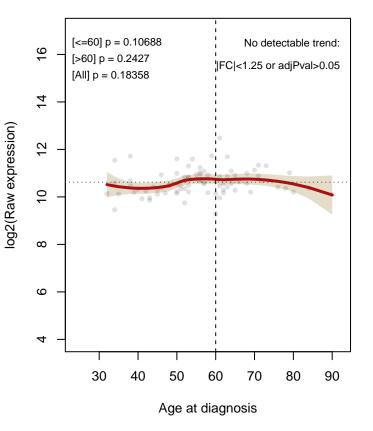
MAPK1 (non-ER binding)

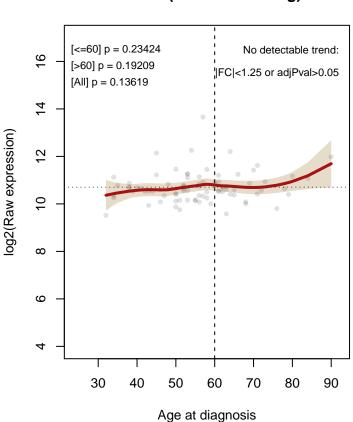


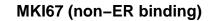


MAPK3 (non-ER binding)

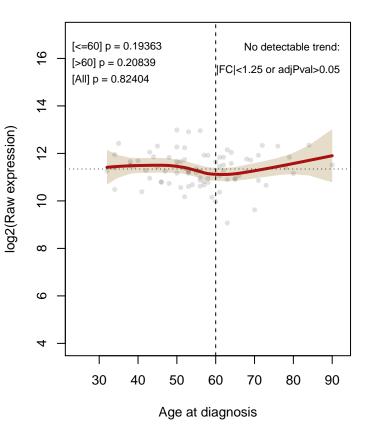
MDM2 (non-ER binding)

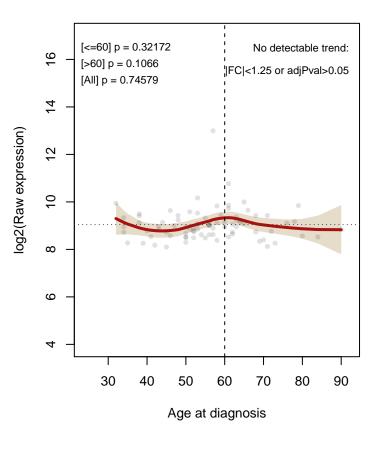






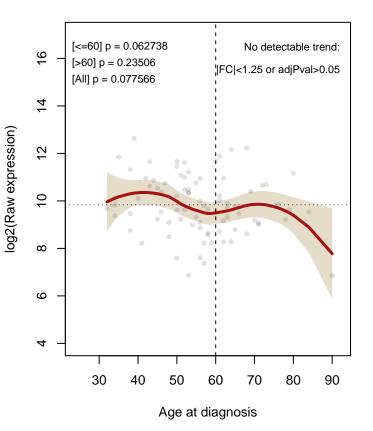
MTF2 (non-ER binding)

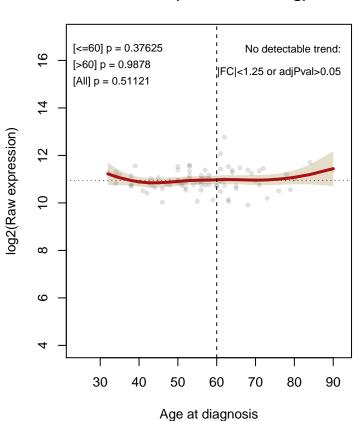




MYC (non-ER binding)

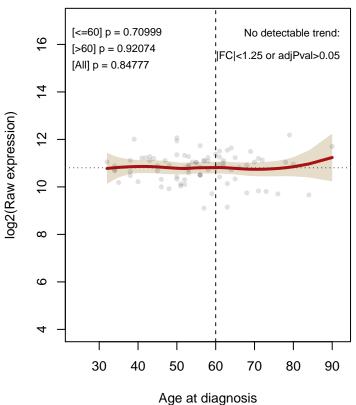
NCOA6 (non-ER binding)

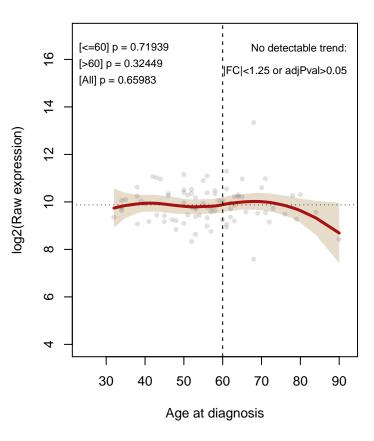






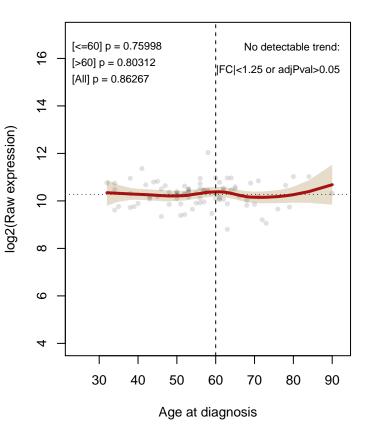
NES (non-ER binding)

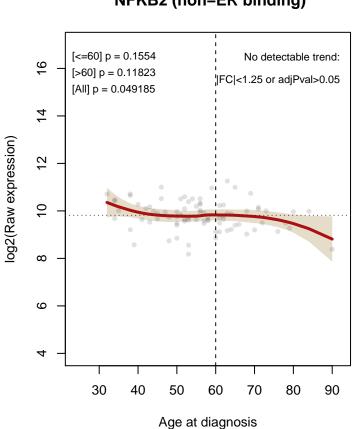




NFKB1 (non-ER binding)

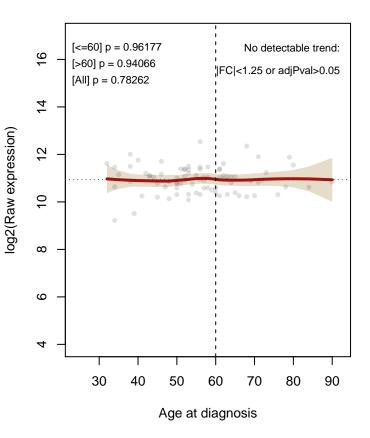
NFKB2 (non-ER binding)

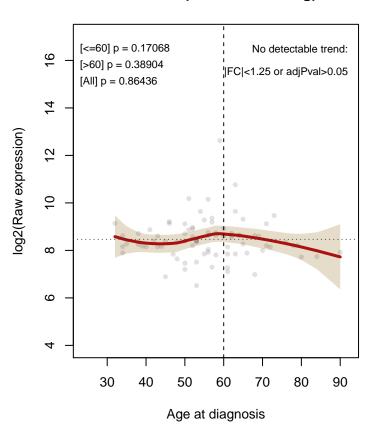






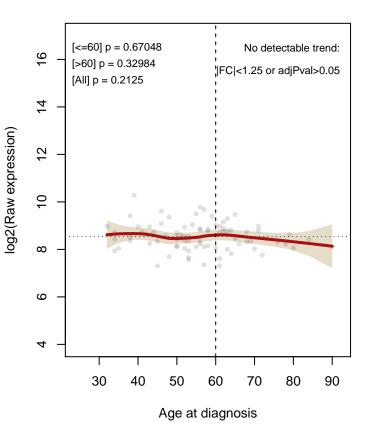
NFKBIB (non-ER binding)

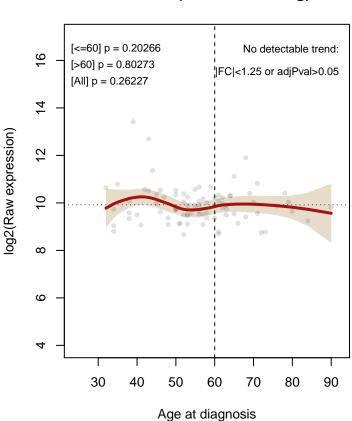




NFKBIE (non-ER binding)

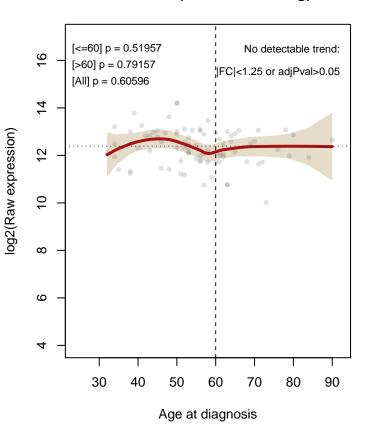
NOTCH1 (non-ER binding)

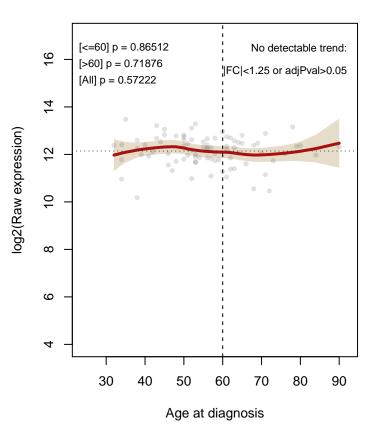




NOTCH2 (non-ER binding)

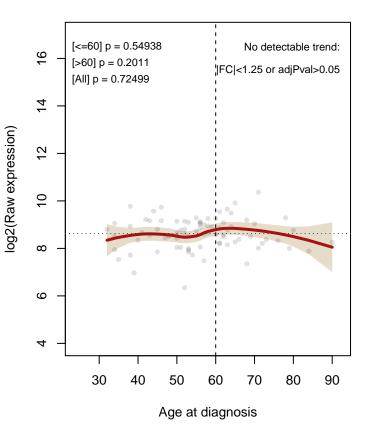
NOTCH3 (non-ER binding)

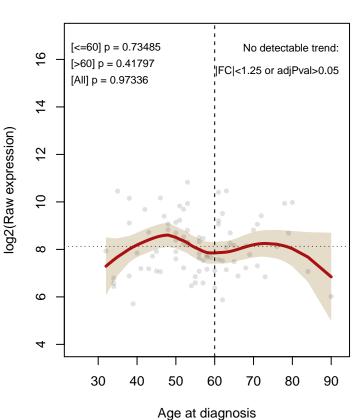


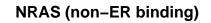


NOTCH4 (non-ER binding)

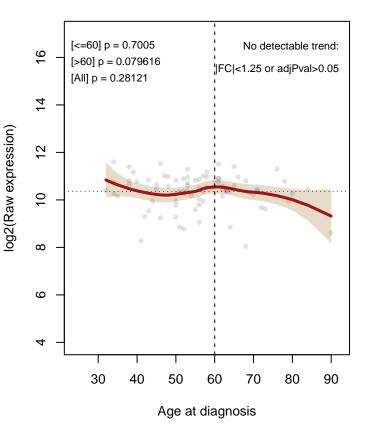
NR4A2 (non-ER binding)

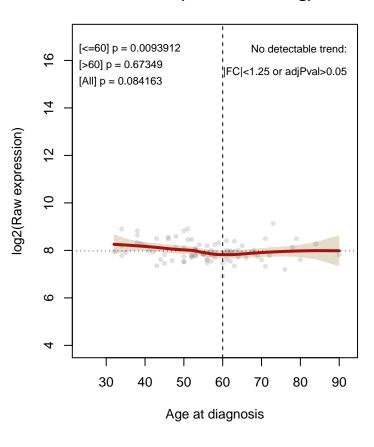






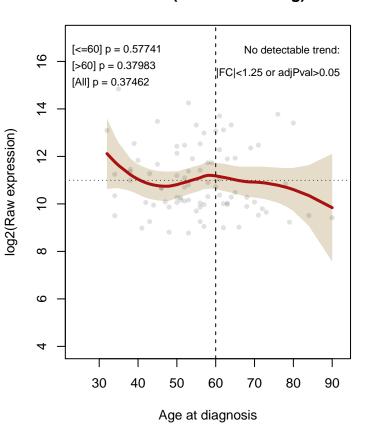
PCGF1 (non-ER binding)

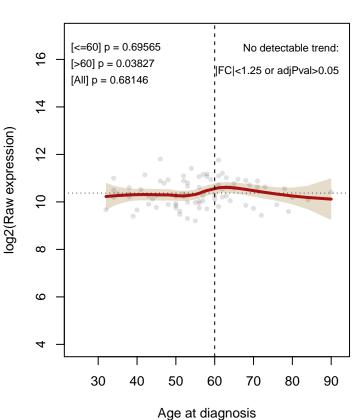




PCGF2 (non-ER binding)

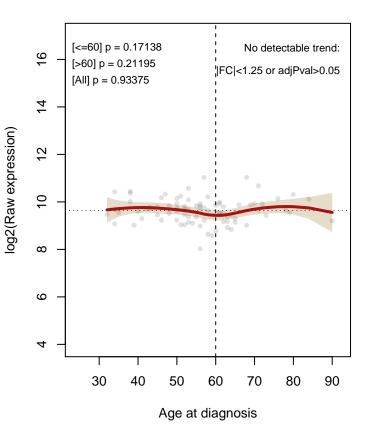
PCGF3 (non-ER binding)

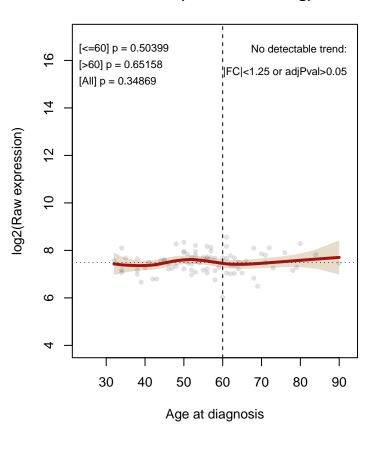






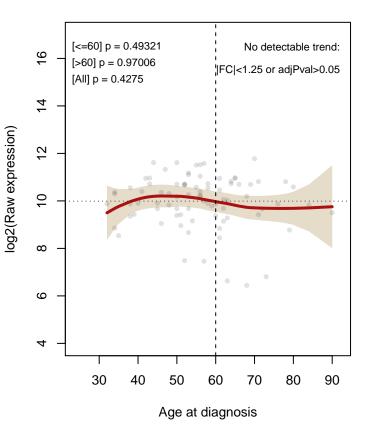
PCGF6 (non-ER binding)

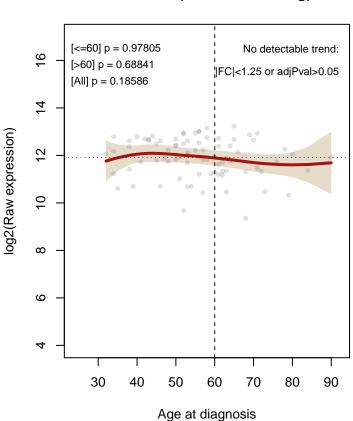




PDGFRA (non-ER binding)

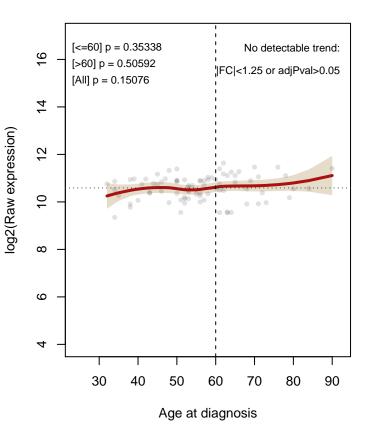
PDGFRB (non-ER binding)

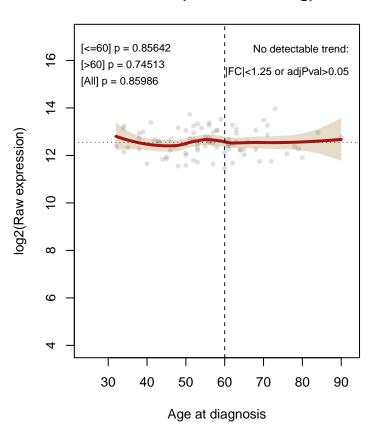






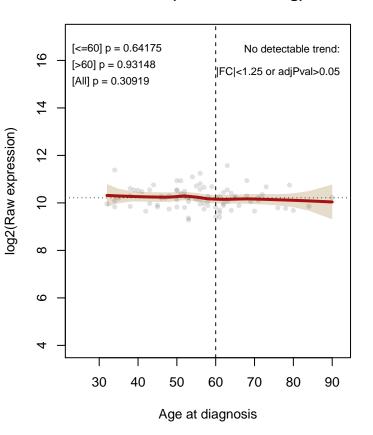
PEBP1 (non-ER binding)

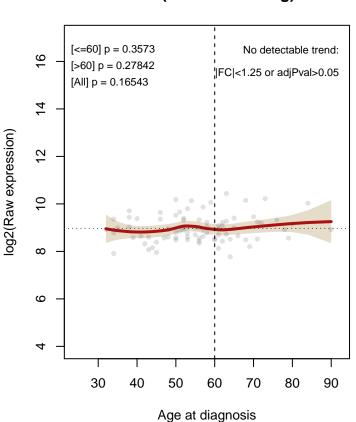


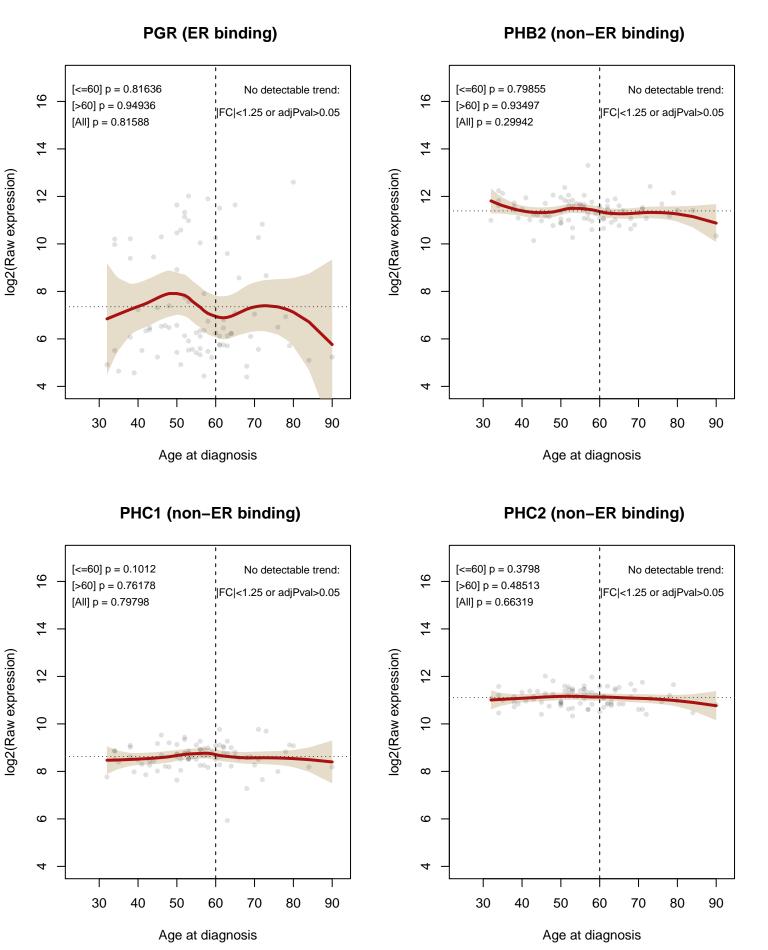


PELP1 (non-ER binding)

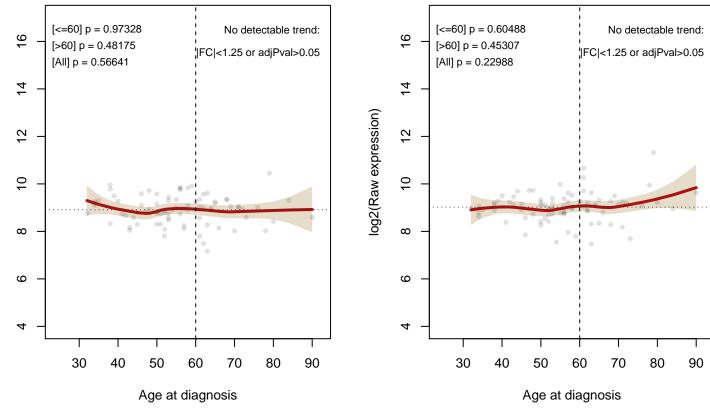
PGP (non-ER binding)





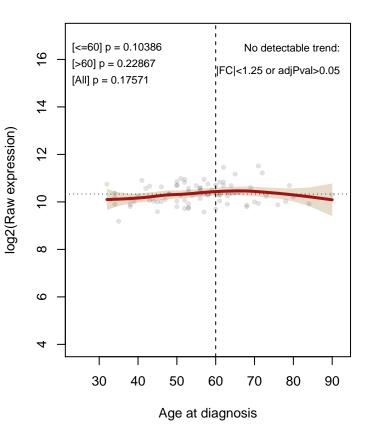


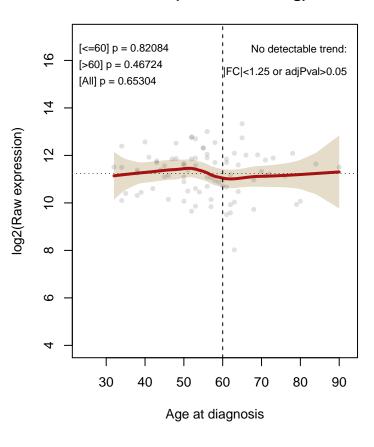
PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.9401 No detectable trend: [<=60] p = 0.98561No detectable trend: 16 16 [>60] p = 0.8483 [>60] p = 0.19115 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.17744[All] p = 0.914054 4 log2(Raw expression) log2(Raw expression) 12 12 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 = 0.97328No detectable trend: [<=60] p = 0.60488No detectable trend: 16 16 [>60] p = 0.45307[>60] p = 0.48175 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.56641[All] p = 0.229884 4 log2(Raw expression)





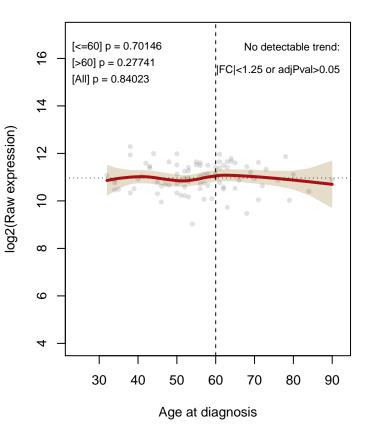
PLAU (non-ER binding)

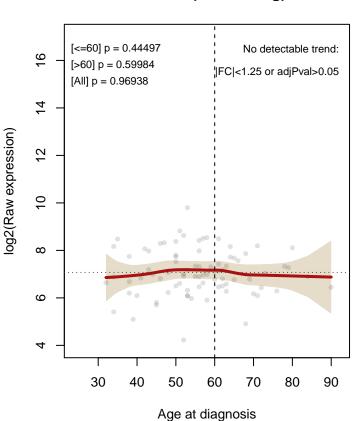


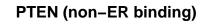


PODXL (non-ER binding)

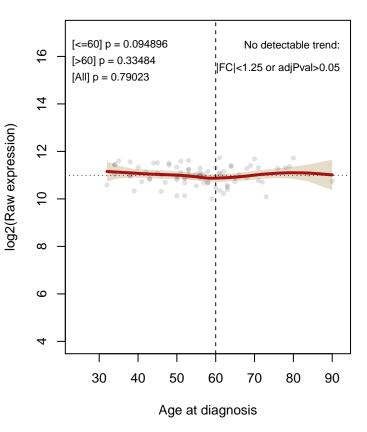
PPARG (ER binding)

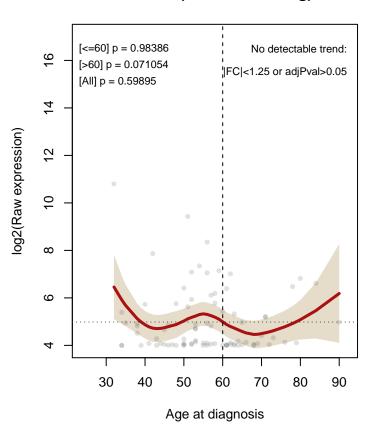






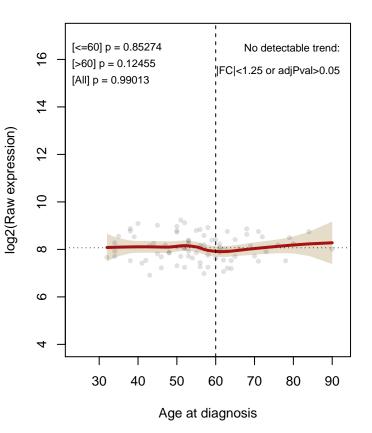
PYDC1 (non-ER binding)

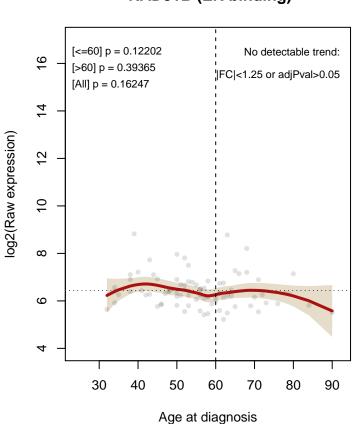




RAD51 (non-ER binding)

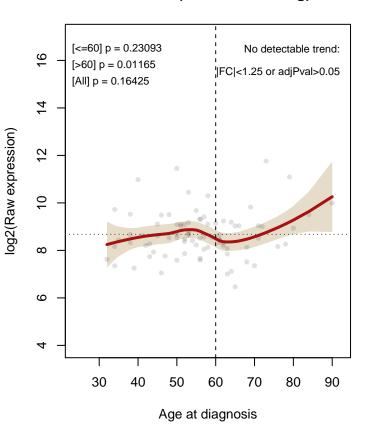
RAD51B (ER binding)

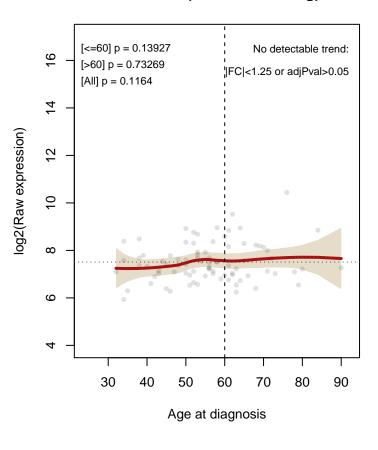




RAD51C (non-ER binding)

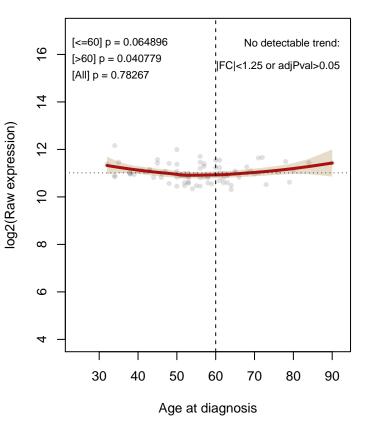
RAD51D (non-ER binding)

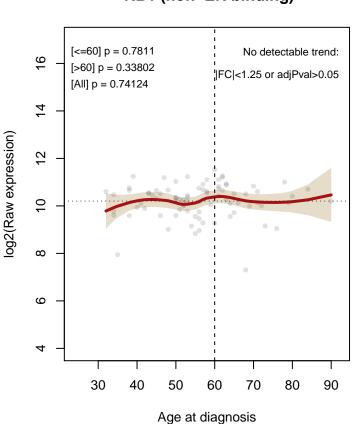




RAF1 (non-ER binding)

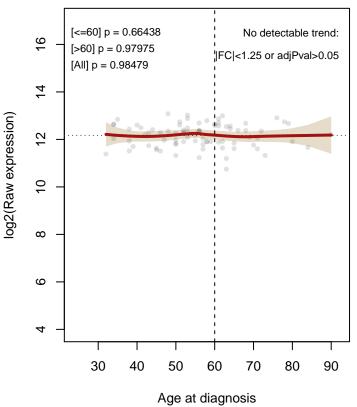
RB1 (non-ER binding)

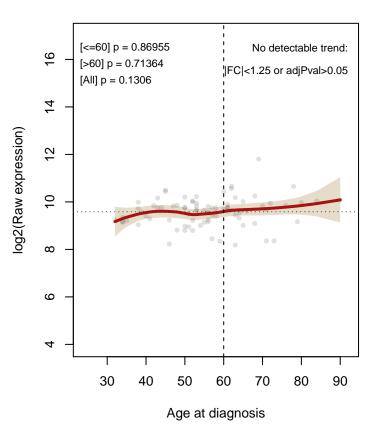






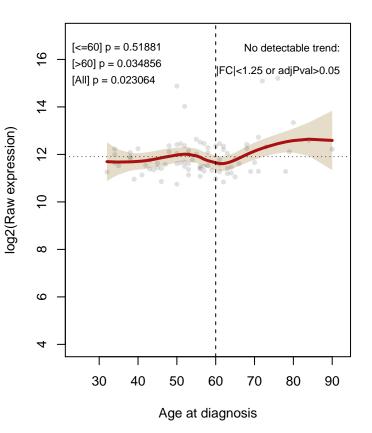
RBBP5 (non-ER binding)

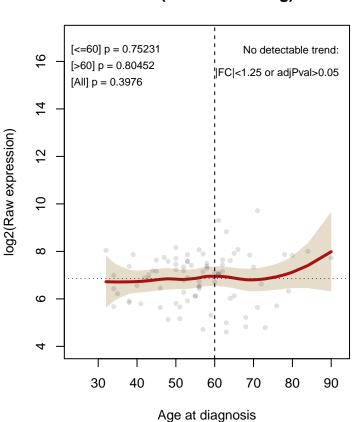


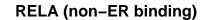


RBBP7 (non-ER binding)

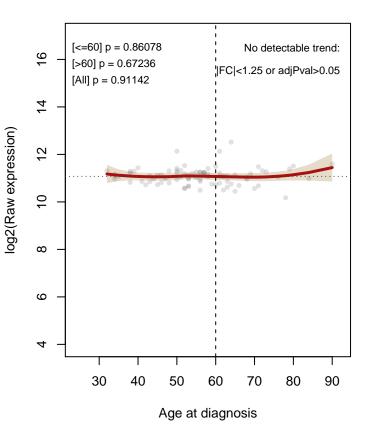
REL (non-ER binding)

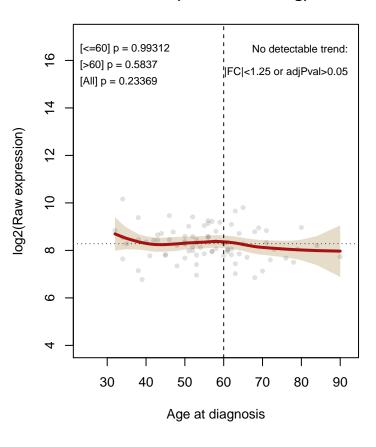






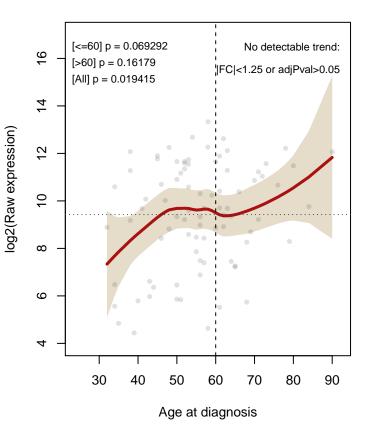
RELB (non-ER binding)

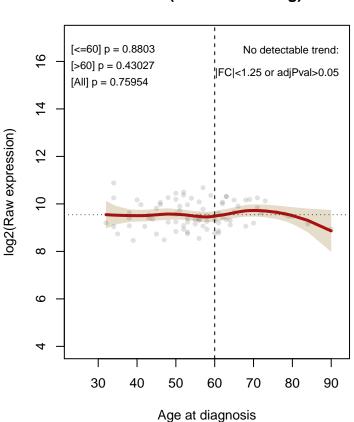




RET (ER binding)

RING1 (non-ER binding)





RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.54794No detectable trend: [<=60] p = 0.057952 No detectable trend: 16 16 [>60] p = 0.63027 [>60] p = 0.56507 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.35823[All] p = 0.0299454 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 = 0.17382No detectable trend: [<=60] p = 0.13844No detectable trend: 16 16 [>60] p = 0.21118 [>60] p = 0.78157 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.004157[All] p = 0.371054 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

30

40

50

60

Age at diagnosis

70

80

90

30

40

50

60

Age at diagnosis

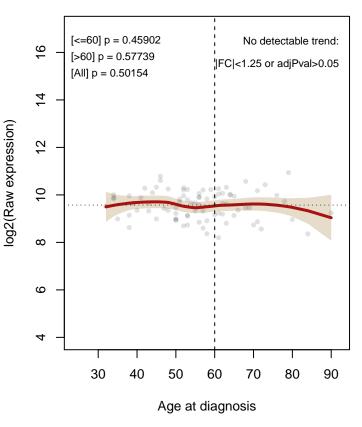
70

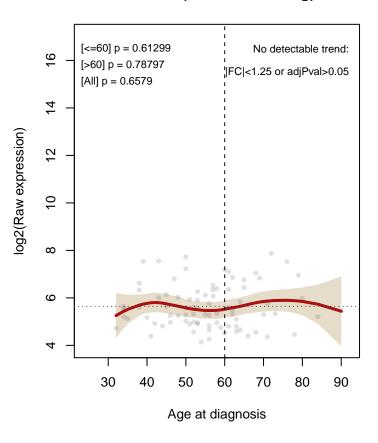
80

90

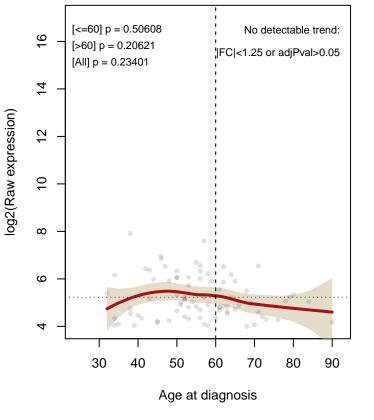
SCMH1 (non-ER binding)

SCML2 (non-ER binding)

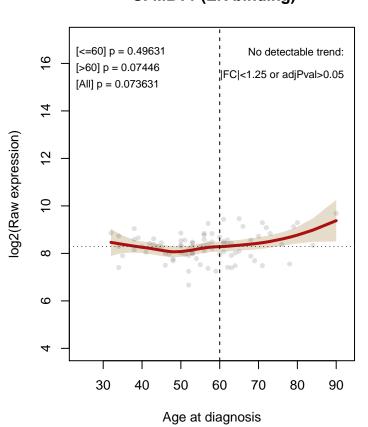




SCML4 (non-ER binding)

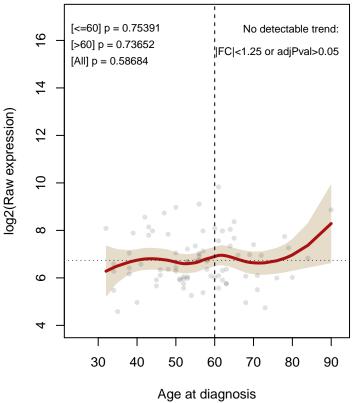


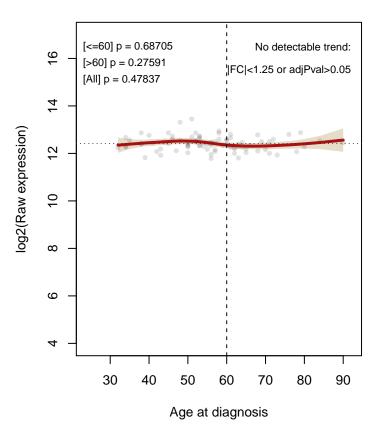
SFMBT1 (ER binding)



SFMBT2 (ER binding)

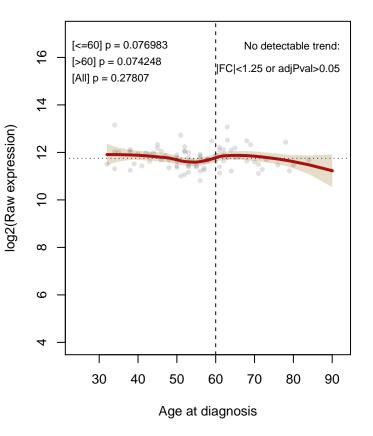
SFPQ (non-ER binding)

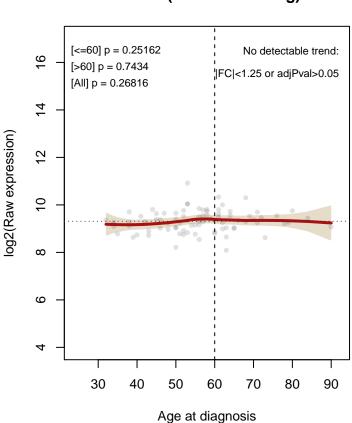




SHC1 (non-ER binding)

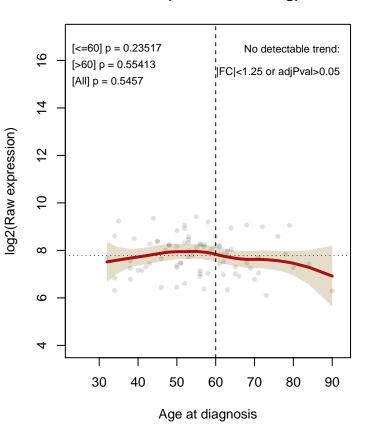
SIRT1 (non-ER binding)

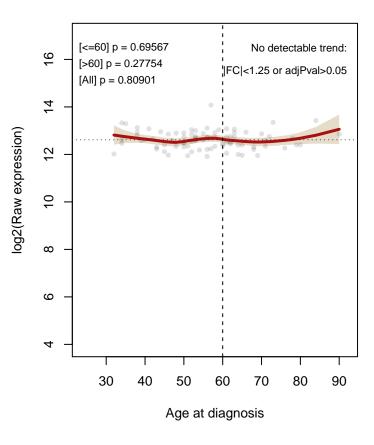




SKP2 (non-ER binding)

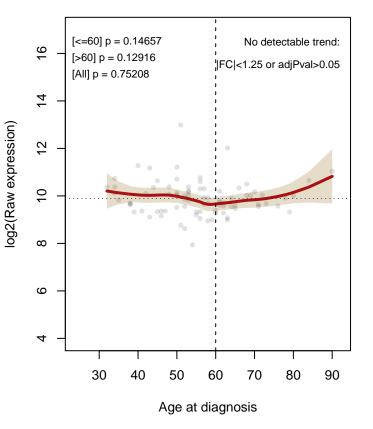
SLC25A3 (non-ER binding)

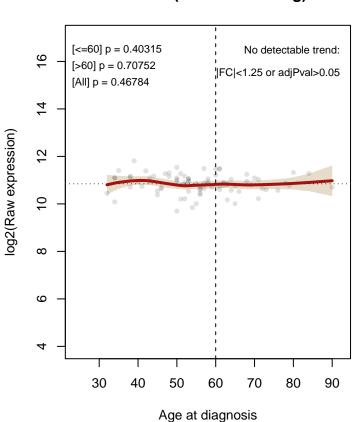




SMAD1 (non-ER binding)

SMAD2 (non-ER binding)

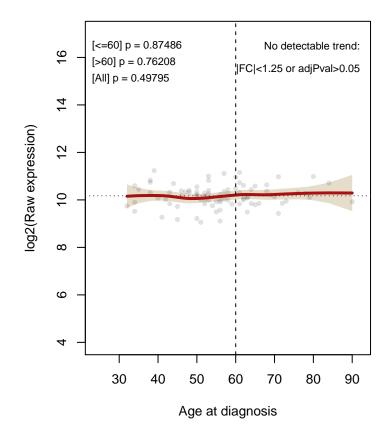


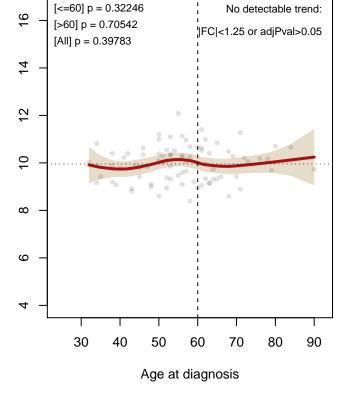


SMAD3 (ER binding) [<=60] p = 0.32246 | No detecta [>60] p = 0.70542 | FC|<1.25 or adjl

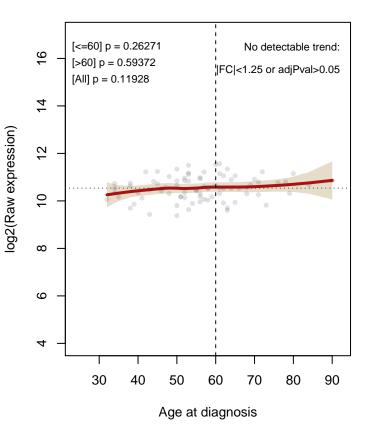
log2(Raw expression)

SMAD4 (non-ER binding)

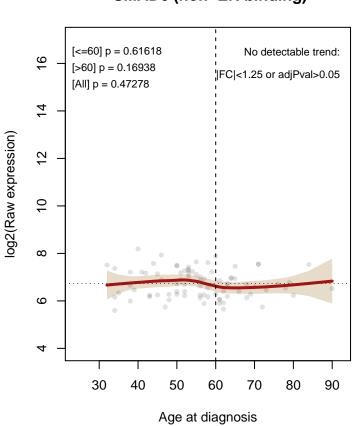


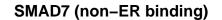


SMAD5 (non-ER binding)

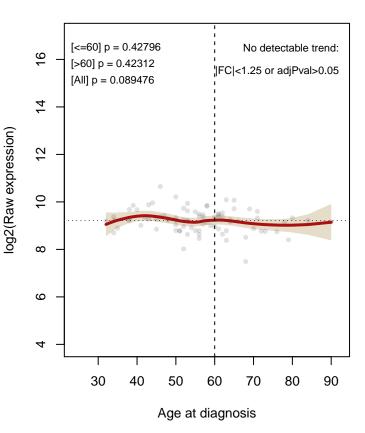


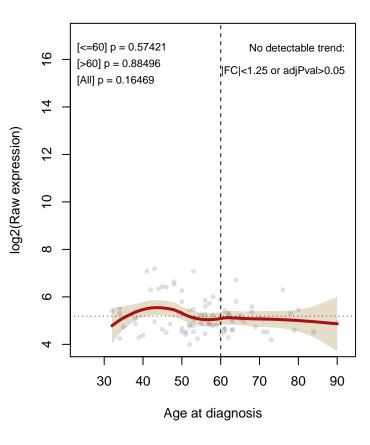
SMAD6 (non-ER binding)





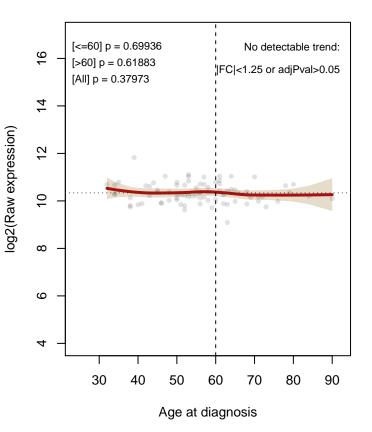
SMAD9 (non-ER binding)

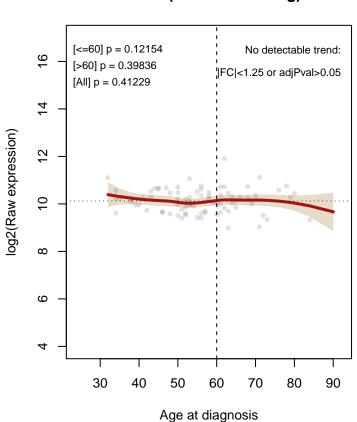


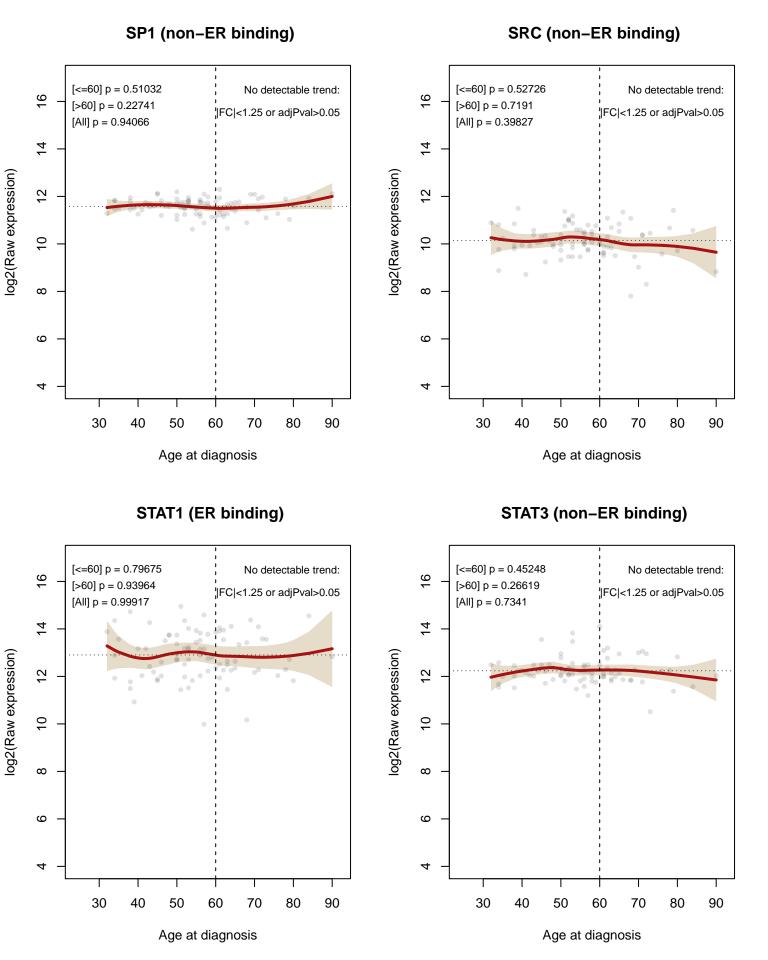


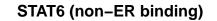
SOS1 (non-ER binding)

SOS2 (non-ER binding)

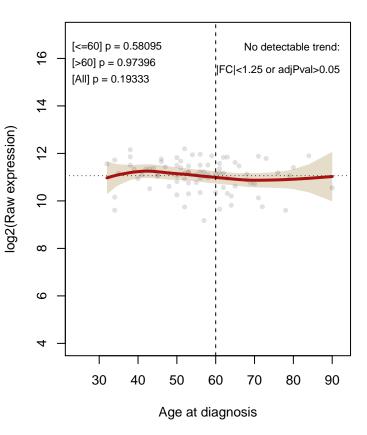


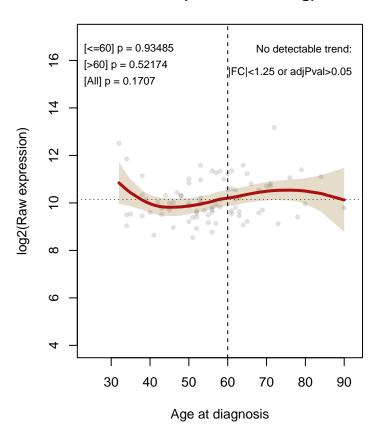






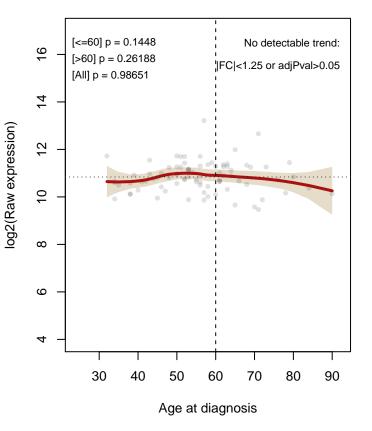
SUZ12 (non-ER binding)

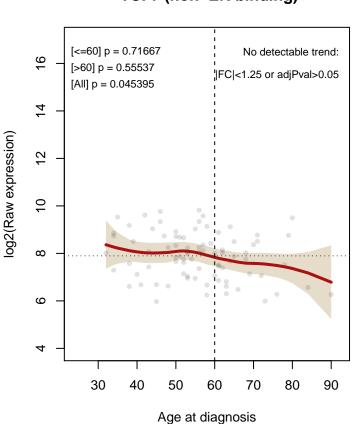




TCF3 (non-ER binding)

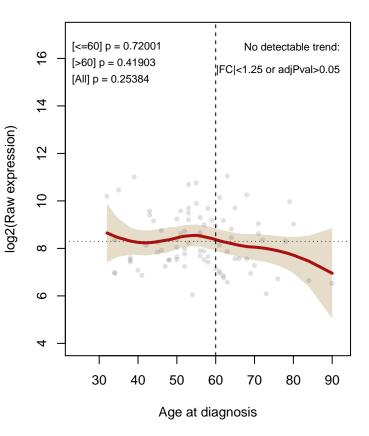
TCF7 (non-ER binding)

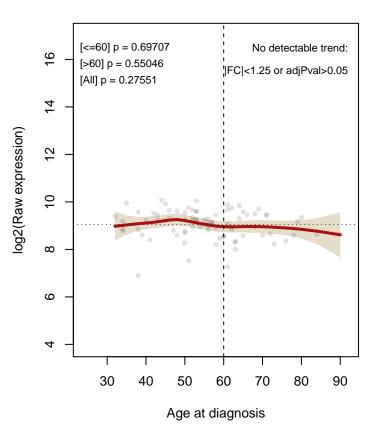






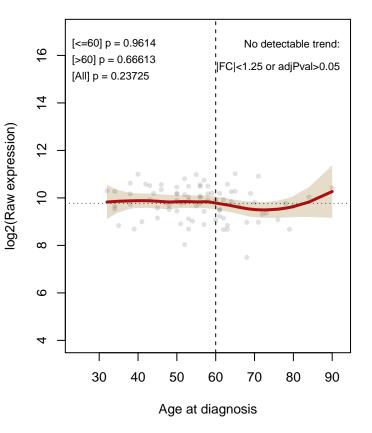
TCF7L2 (non-ER binding)

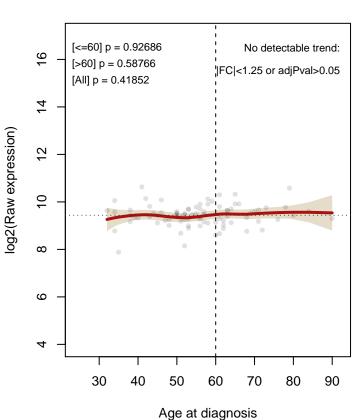


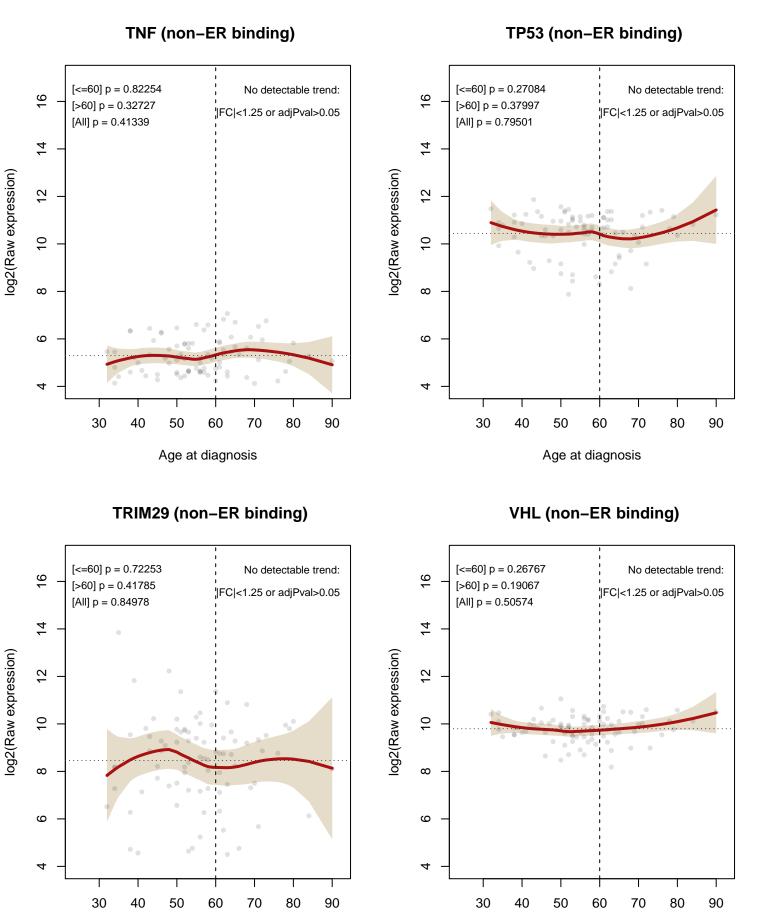


TGFB1 (non-ER binding)

TK2 (non-ER binding)





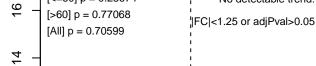


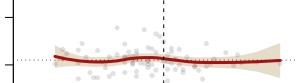
Age at diagnosis

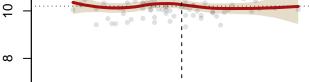
Age at diagnosis



[<=60] p = 0.28674No detectable trend:







log2(Raw expression)

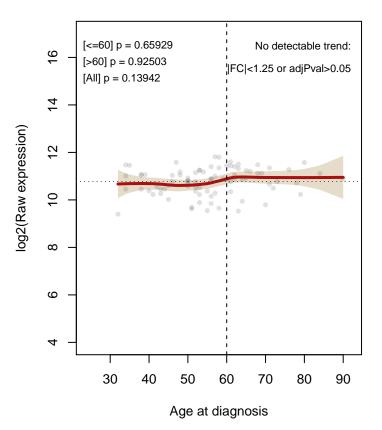
12

9

30 40 50 60 70 80

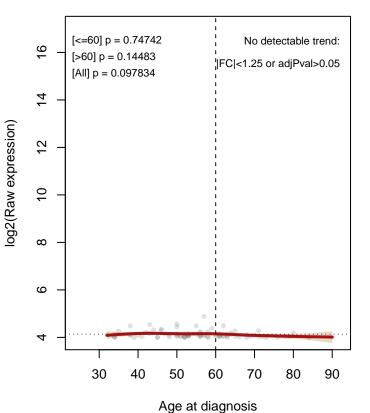
90

WHSC1 (non-ER binding)

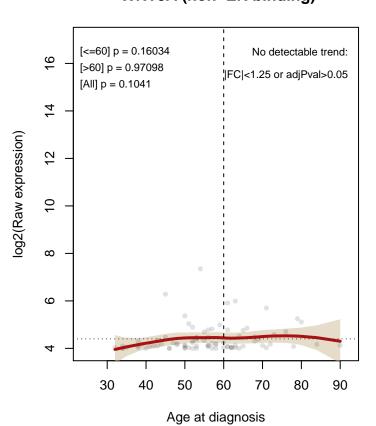


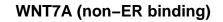
WNT1 (non-ER binding)

Age at diagnosis

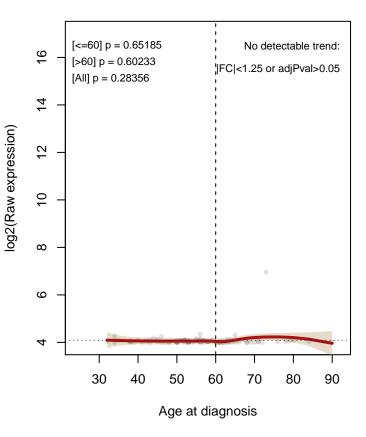


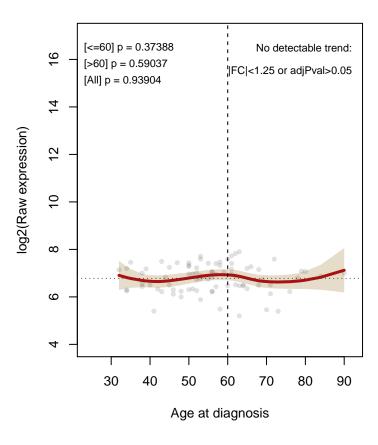
WNT3A (non-ER binding)





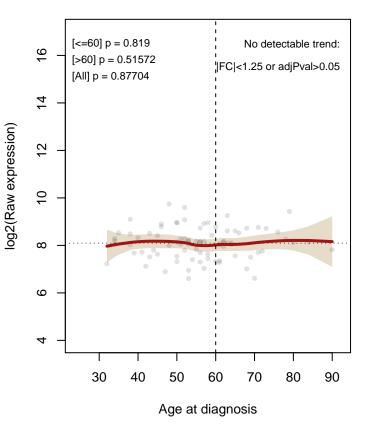
XRCC2 (non-ER binding)

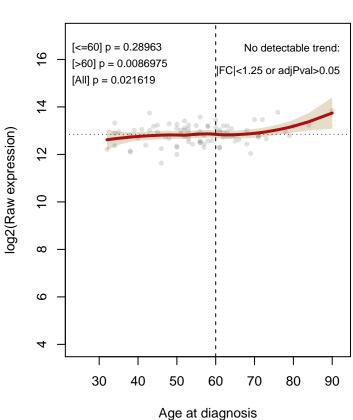




XRCC3 (non-ER binding)

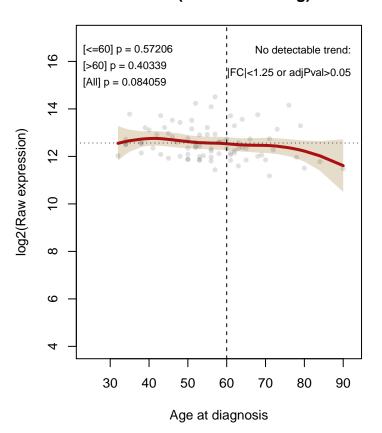
XRCC6 (non-ER binding)





YAF2 (non-ER binding)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

