

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|<2 or adjPval>0.05 |FC|<2 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 = 0.85082[>60] p = 0.91308 |FC|<2 or adjPval>0.05 |FC|<2 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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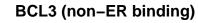
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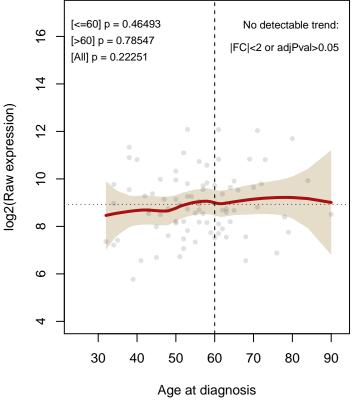
Age at diagnosis

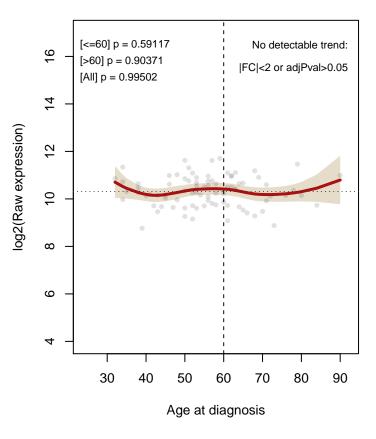
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BCL2 (non–ER binding) [<=60] p = 0.46493 | No detectab | |FC|<2 or adjPt|







BIRC5 (non-ER binding)

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ω

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Age at diagnosis

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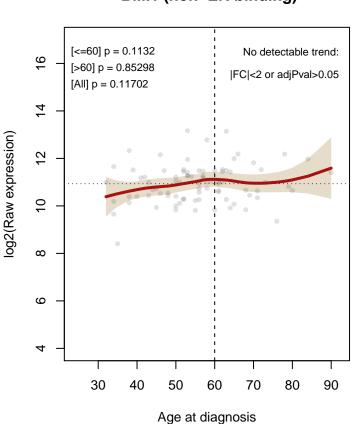
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log2(Raw expression)

[<=60] p = 0.40561 | No detectable trend: [>60] p = 0.82131 | |FC|<2 or adjPval>0.05

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|<2 or adjPval>0.05 |FC|<2 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 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.11927 No detectable trend: [<=60] p = 0.19852No detectable trend: 16 16 [>60] p = 0.86911 [>60] p = 0.12085 |FC|<2 or adjPval>0.05 |FC|<2 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|<2 or adjPval>0.05 |FC|<2 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|<2 or adjPval>0.05 |FC|<2 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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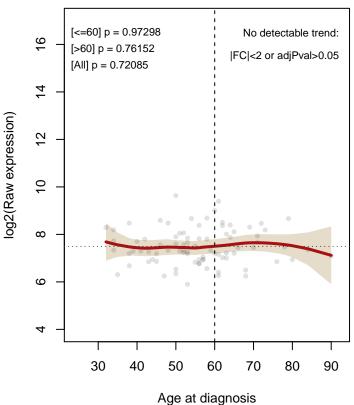
Age at diagnosis

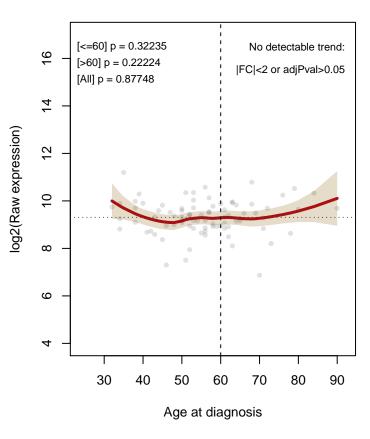
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CBX8 (non-ER binding)

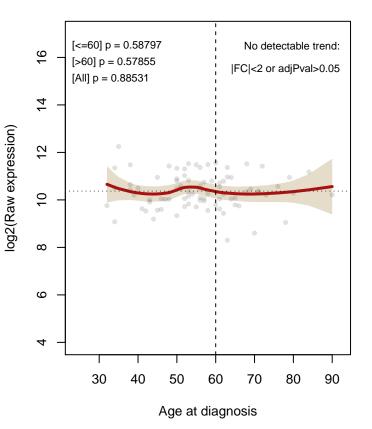
CCNA2 (non-ER binding)

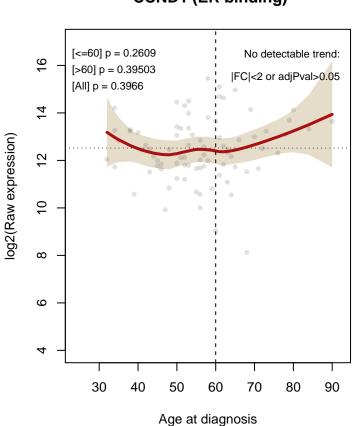




CCNB1 (non-ER binding)

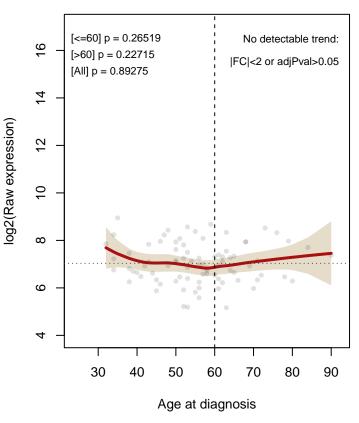
CCND1 (ER binding)

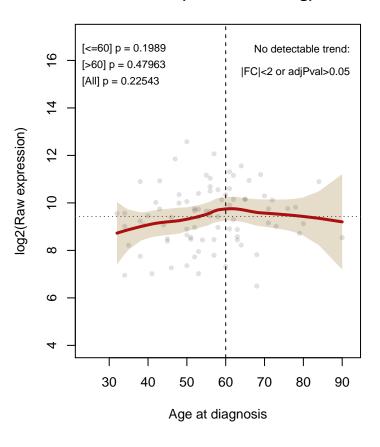






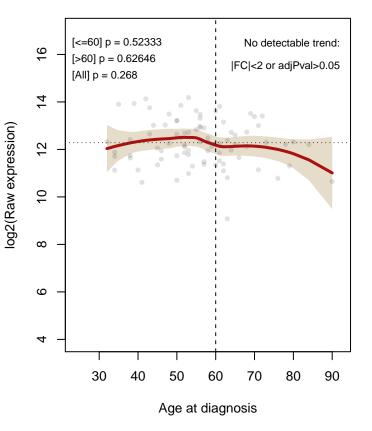
CD163 (non-ER binding)

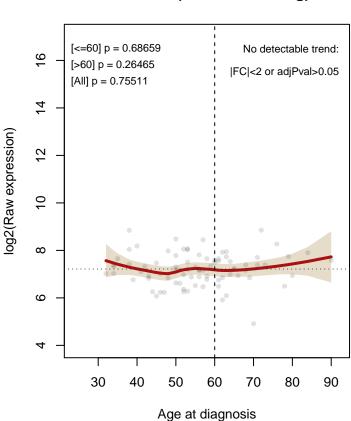


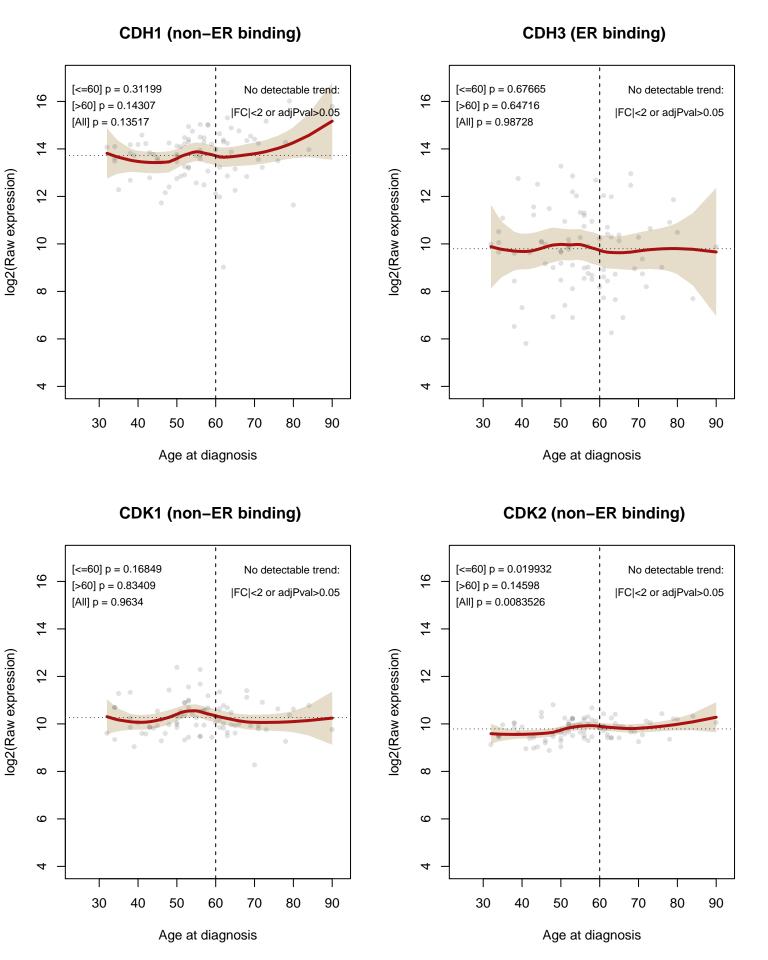


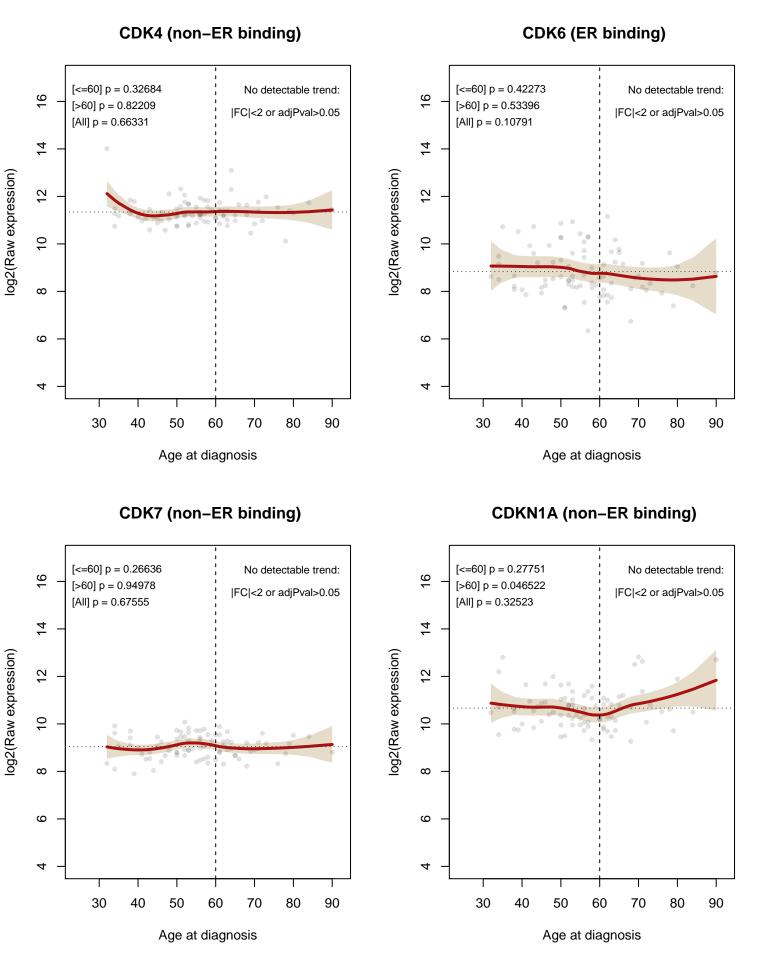
CD44 (non-ER binding)

CDC25C (non-ER binding)



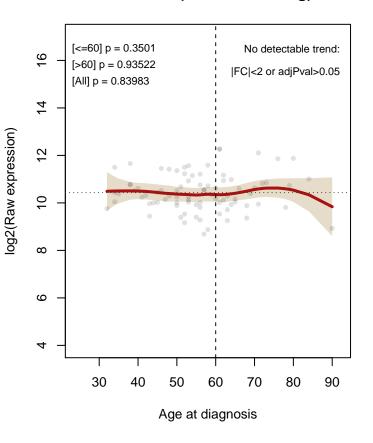


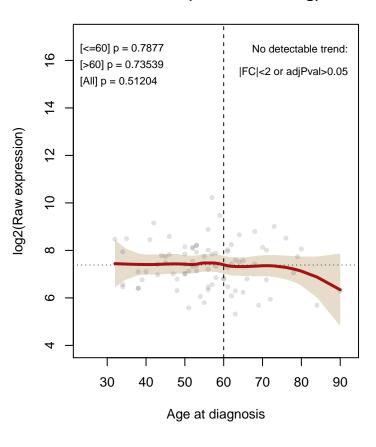




CDKN1B (non-ER binding)

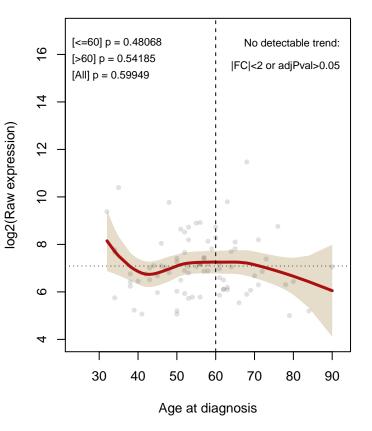
CDKN1C (non-ER binding)

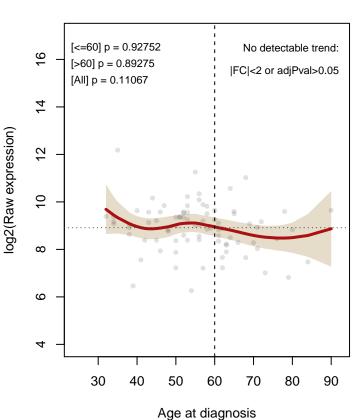




CDKN2A (non-ER binding)

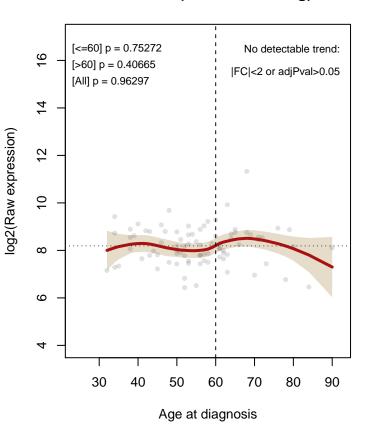
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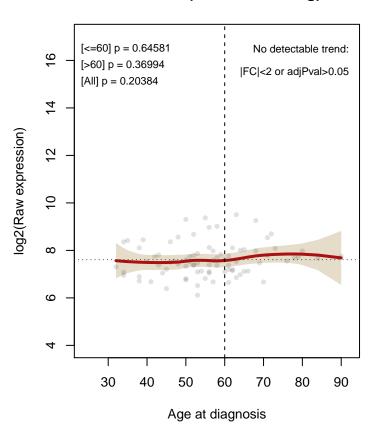




CDKN2C (non-ER binding)

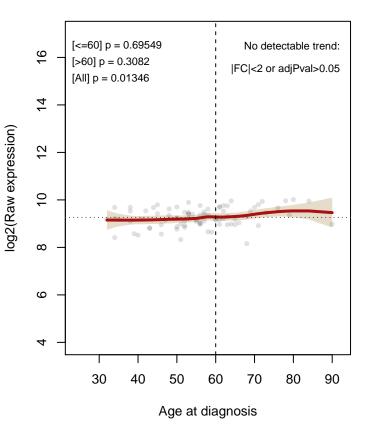
CDKN2D (non-ER binding)

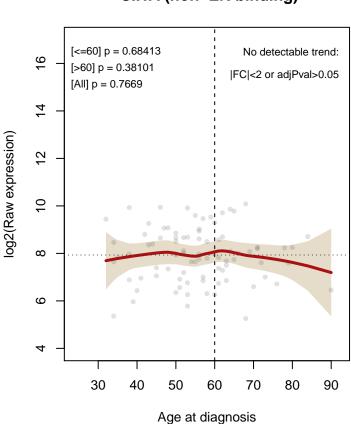


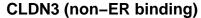


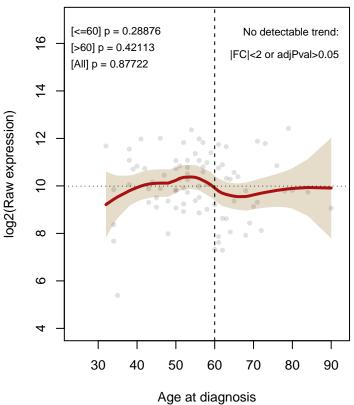
CHUK (non-ER binding)

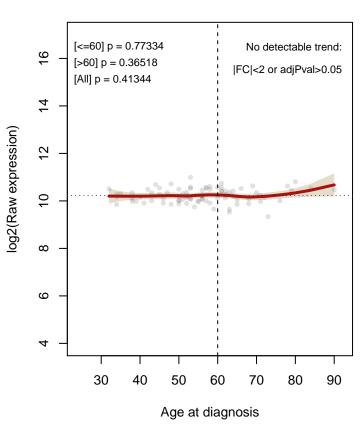
CIITA (non-ER binding)











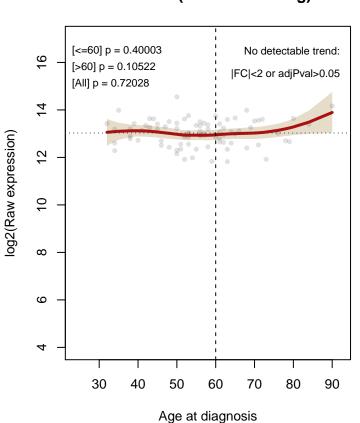
CREB1 (non-ER binding)

CRYAB (non-ER binding)

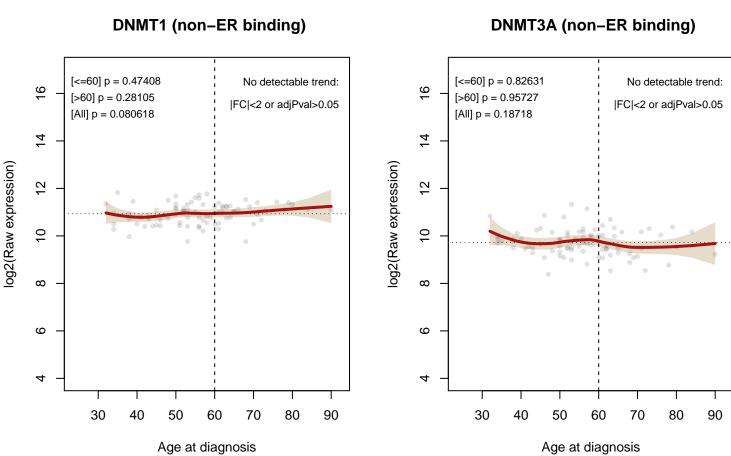
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Age at diagnosis

CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.94669No detectable trend: [<=60] p = 0.88293No detectable trend: 16 16 [>60] p = 0.9966[>60] p = 0.33077 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.9115[AII] p = 0.944024 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 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) [<=60] p = 0.47408No detectable trend: [<=60] p = 0.8263116 16 [>60] p = 0.28105 [>60] p = 0.95727 |FC|<2 or adjPval>0.05 [All] p = 0.080618[All] p = 0.18718



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DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.22814No detectable trend: [<=60] p = 0.37391No detectable trend: 16 16 [>60] p = 0.70003 [>60] p = 0.72902 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.65656[All] p = 0.156554 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis E2F1 (non-ER binding) E2F2 (non-ER binding) [<=60] p = 0.33846No detectable trend: [<=60] p = 0.16642No detectable trend: 16 16 [>60] p = 0.90401 [>60] p = 0.5544 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.11664[All] p = 0.616514 4 log2(Raw expression) log2(Raw expression) 12 12 19 10

ω

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Age at diagnosis

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ω

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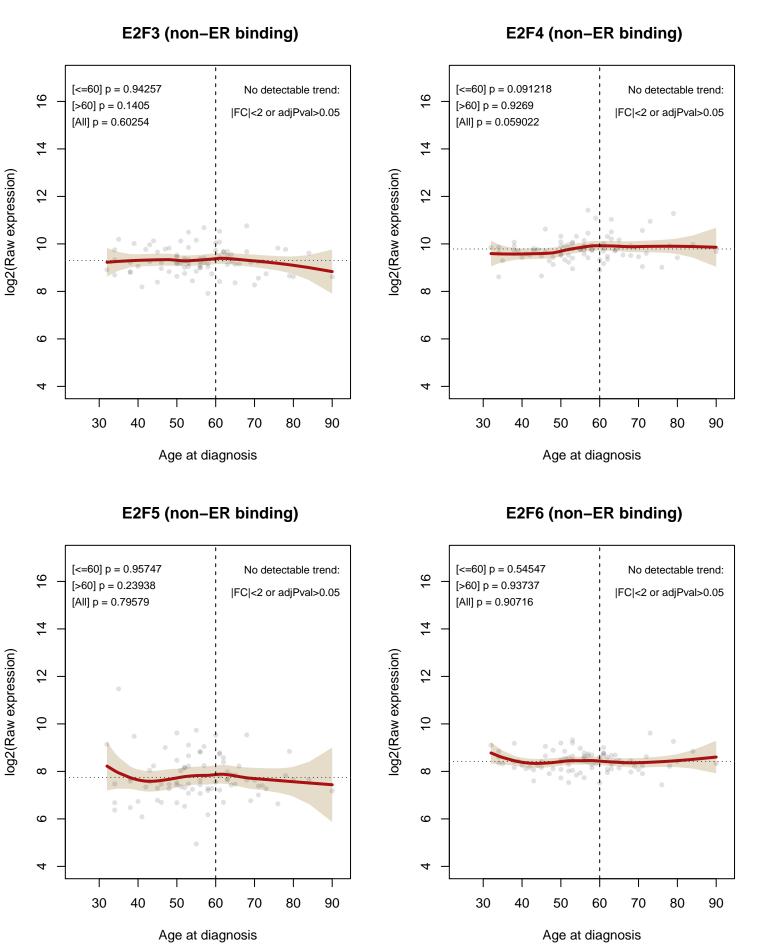
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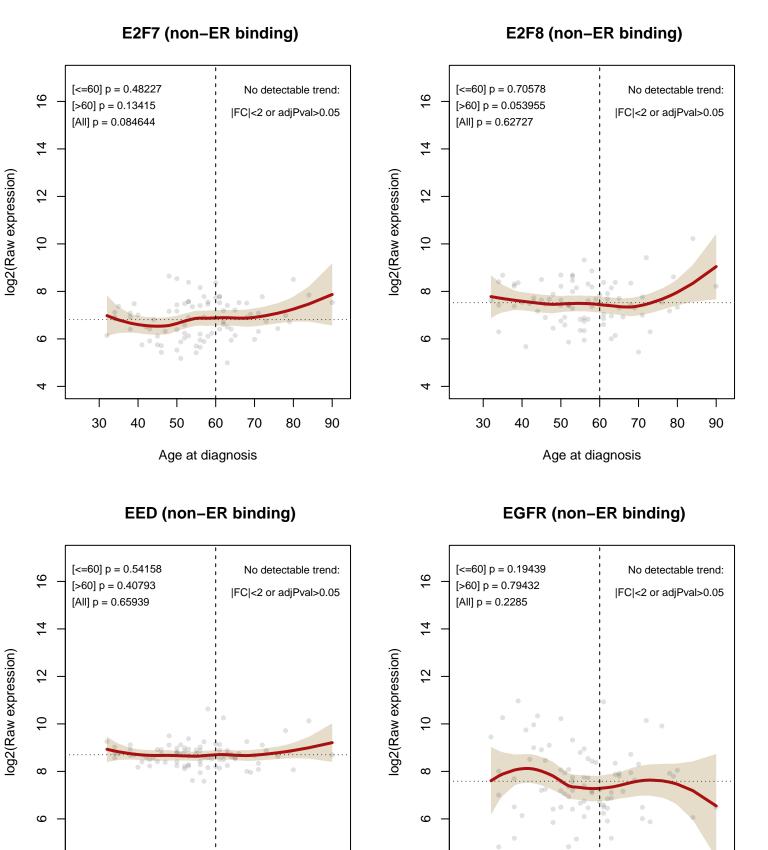
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Age at diagnosis

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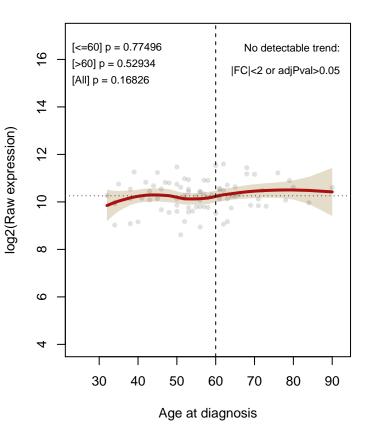


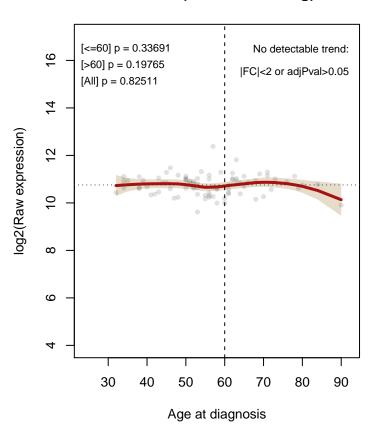
Age at diagnosis

Age at diagnosis



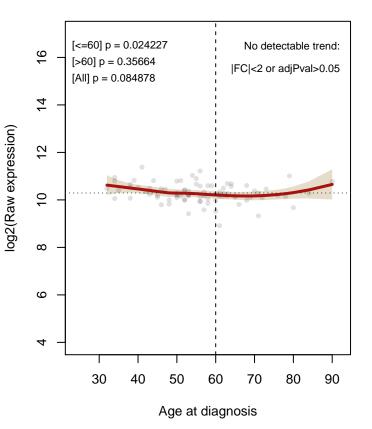
EHMT2 (non-ER binding)

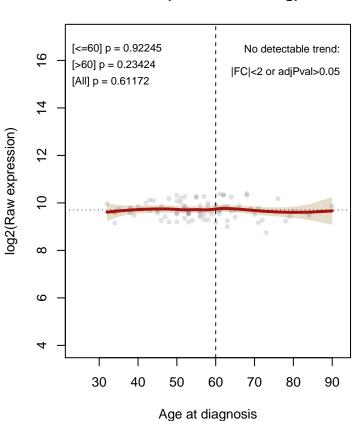




ELAC2 (non-ER binding)

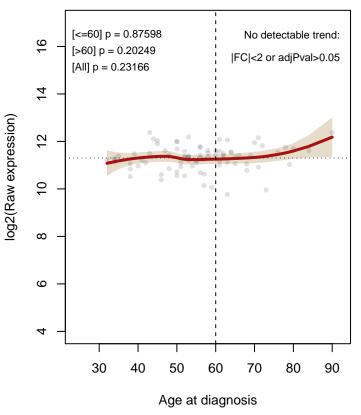
ELK1 (non-ER binding)

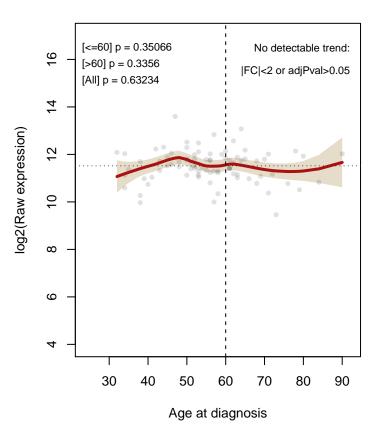






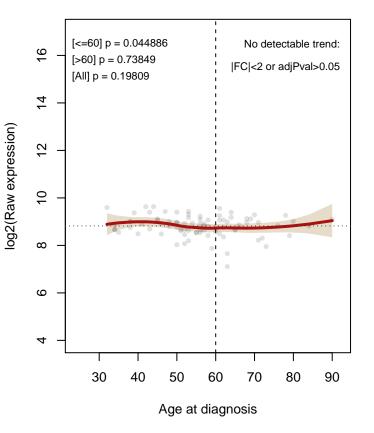
EPAS1 (non-ER binding)

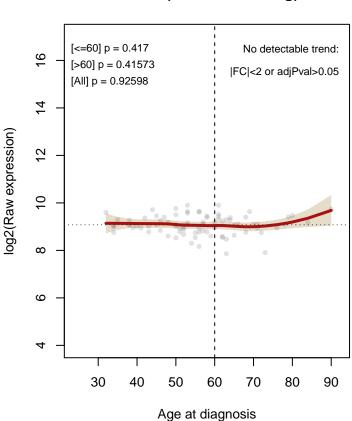




EPC1 (non-ER binding)

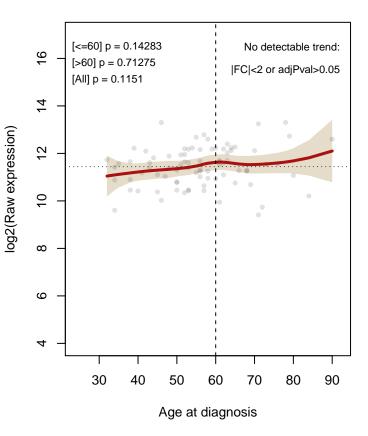
EPC2 (non-ER binding)

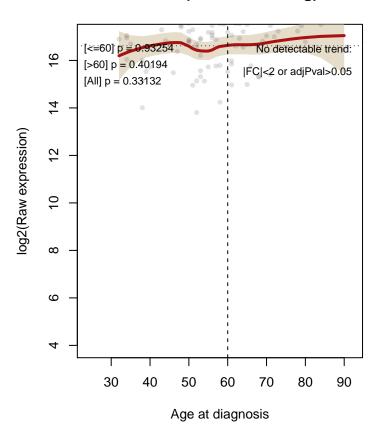






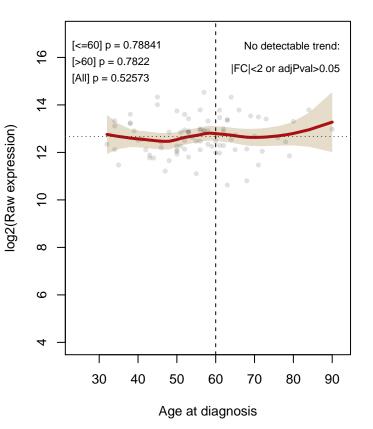
ERBB2 (non-ER binding)

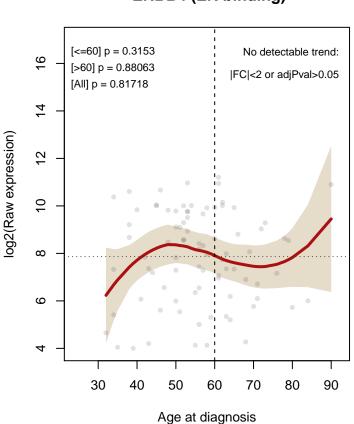


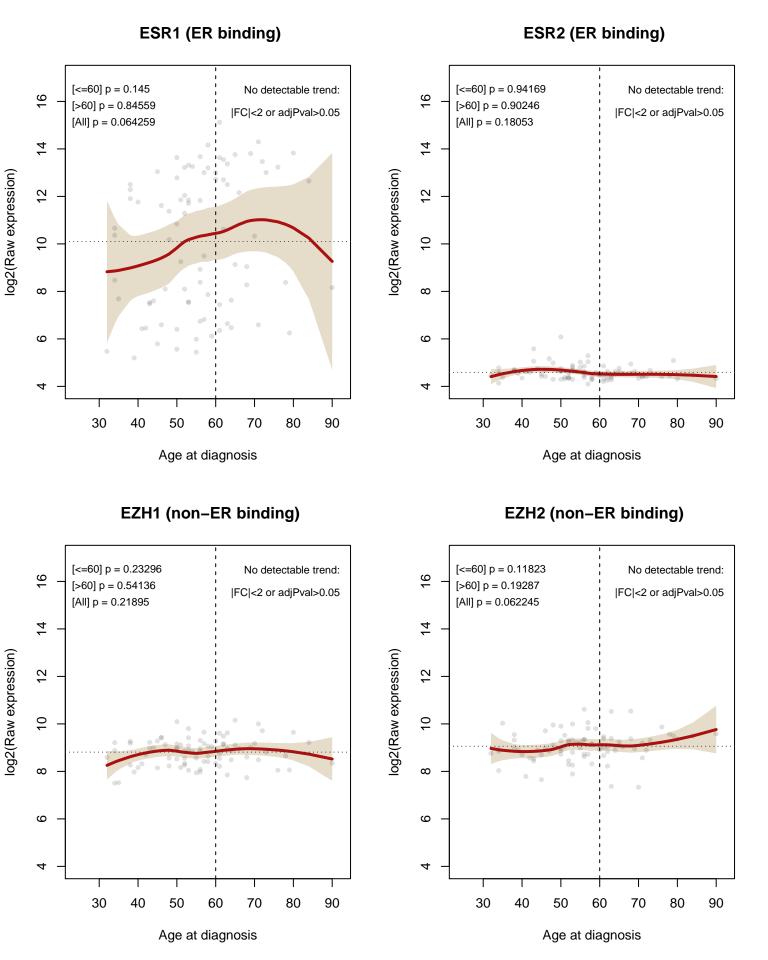


ERBB3 (non-ER binding)

ERBB4 (ER binding)







FOSL1 (non-ER binding) FOS (non-ER binding) [<=60] p = 0.23551 No detectable trend: [<=60] p = 0.017163 No detectable trend: 16 16 [>60] p = 0.50131 [>60] p = 0.57932|FC|<2 or adjPval>0.05 |FC|<2 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 = 0.70926 [>60] p = 0.66957 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.23961[AII] p = 0.34054 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9

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Age at diagnosis

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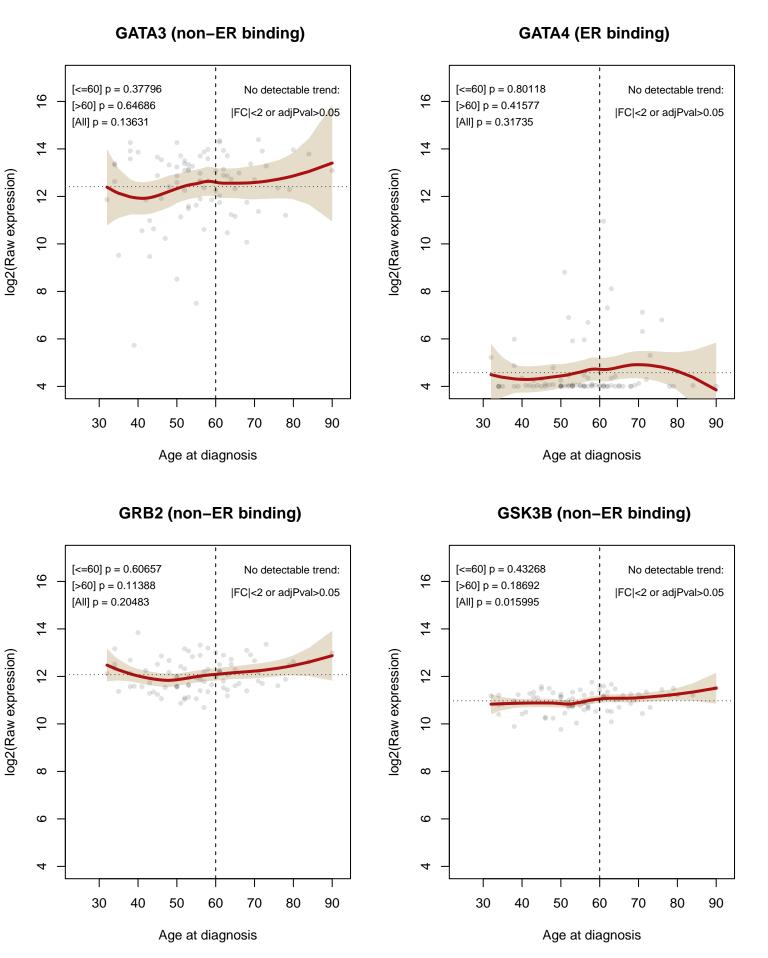
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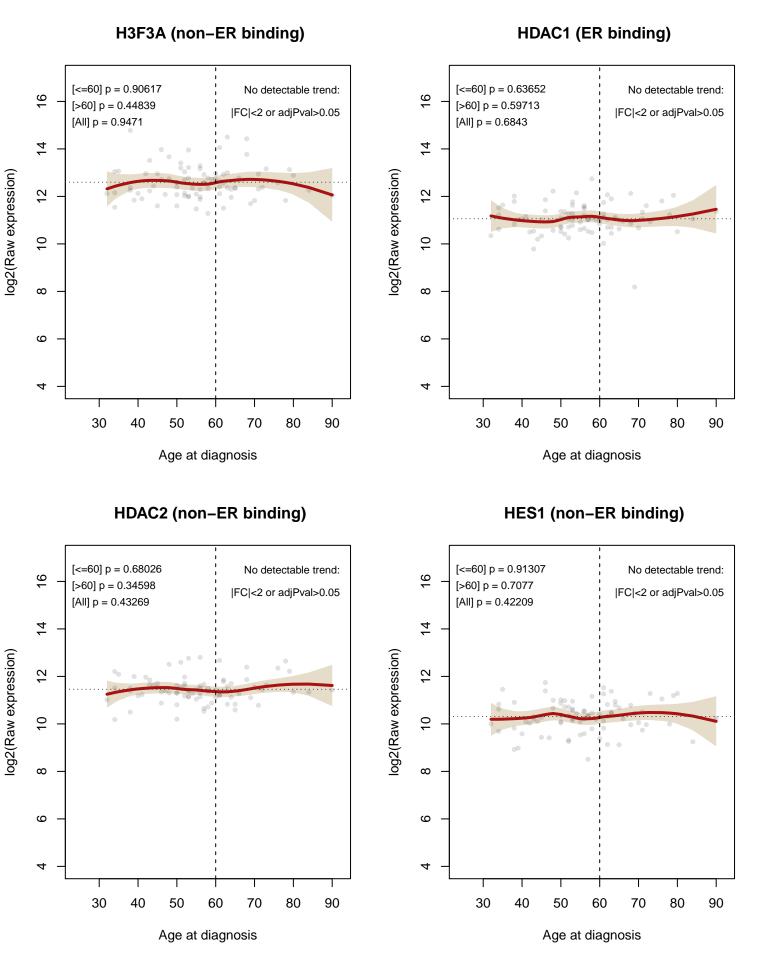
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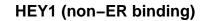
Age at diagnosis

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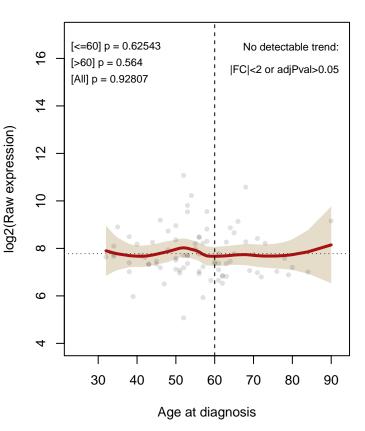
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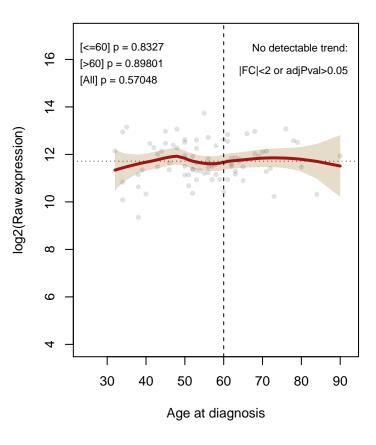






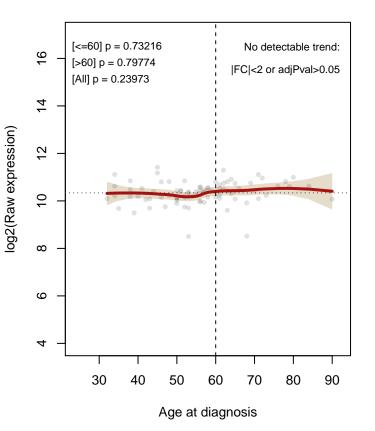
HIF1A (non-ER binding)

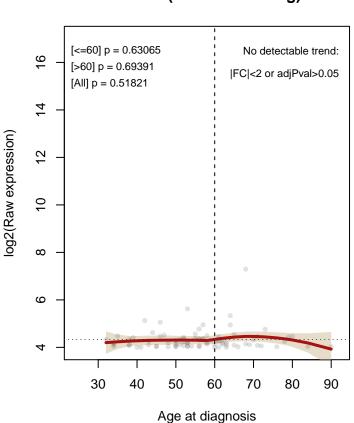




HIF1AN (non-ER binding)

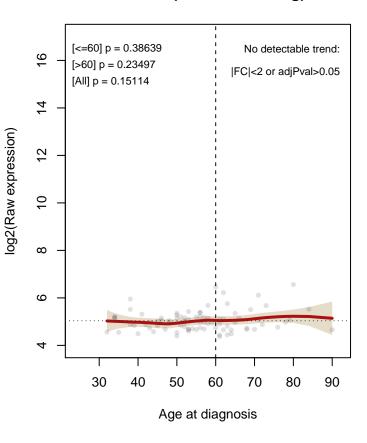
HIF3A (non-ER binding)

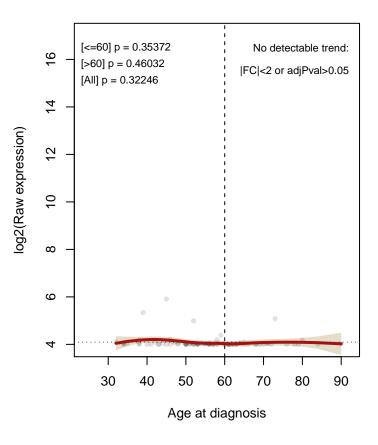




HNF1A (non-ER binding)

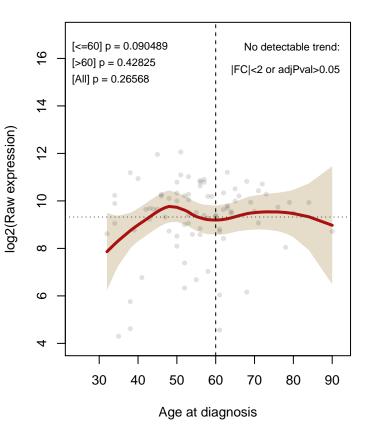
HNF1B (non-ER binding)

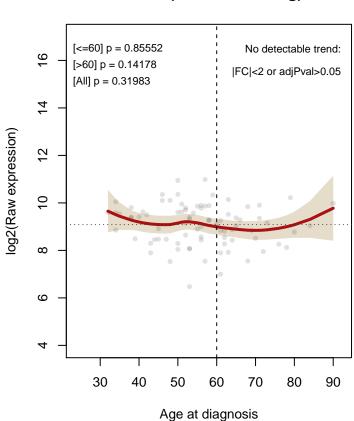


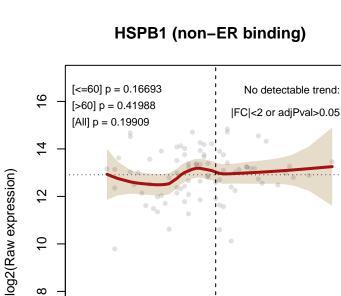


HOXC10 (non-ER binding)

HRAS (non-ER binding)

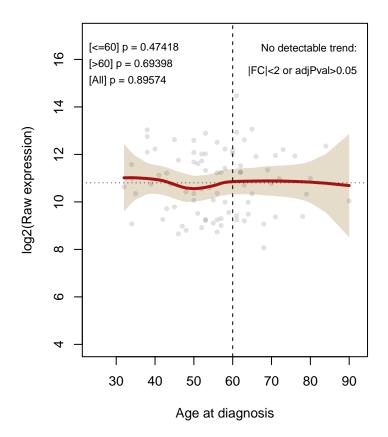






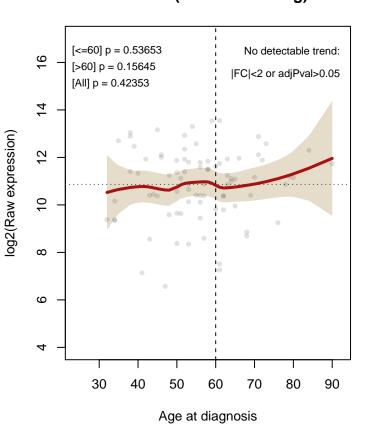
ω

IGF1R (ER binding)

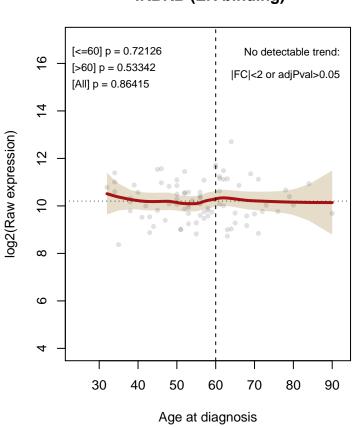


IGFBP2 (non-ER binding)

Age at diagnosis

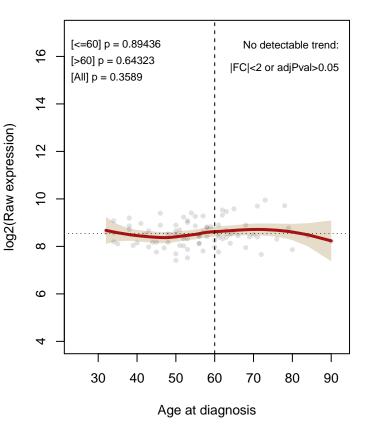


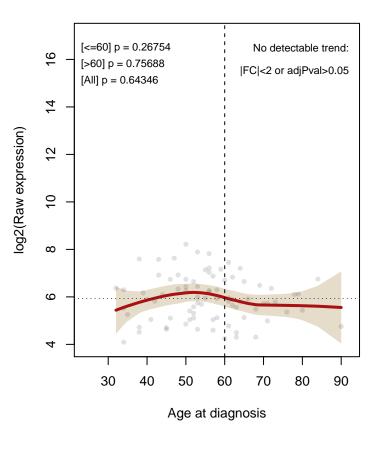
IKBKB (ER binding)





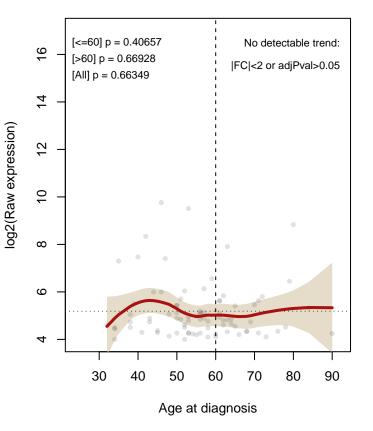
IL2RA (non-ER binding)

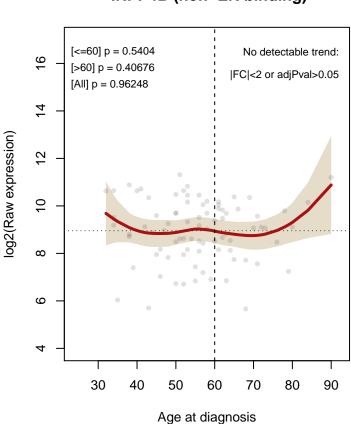


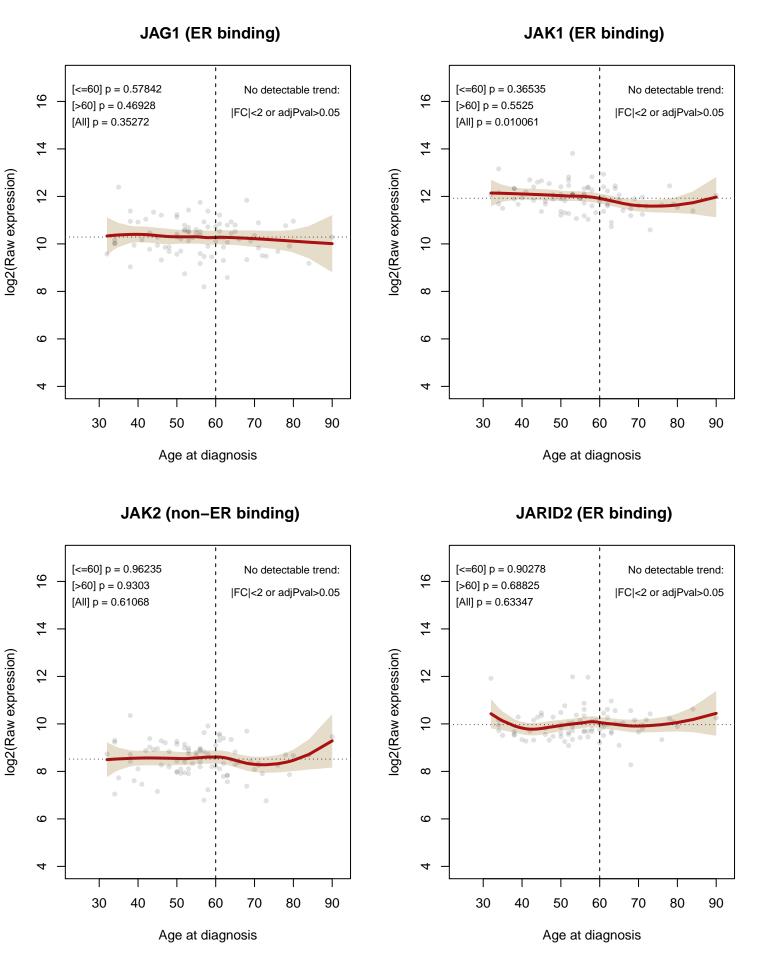


IL6 (non-ER binding)

INPP4B (non-ER binding)

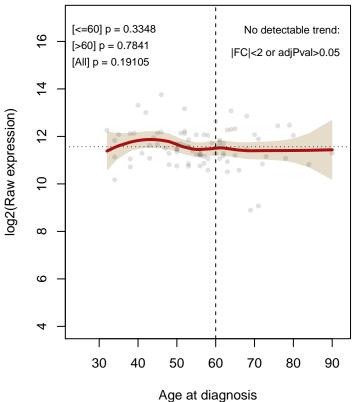


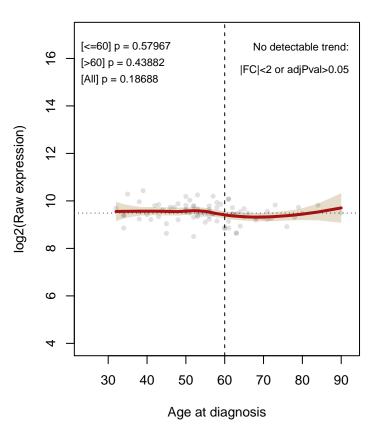




JUN (non–ER binding)

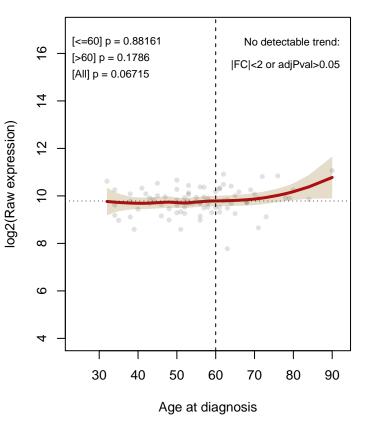
KDM2B (non-ER binding)

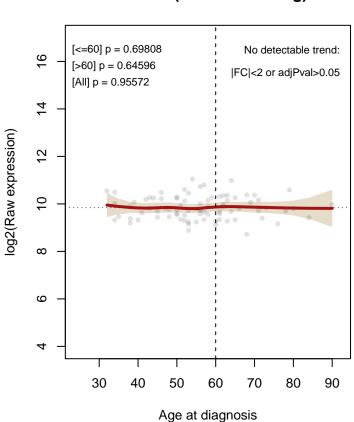




KDM6A (non-ER binding)

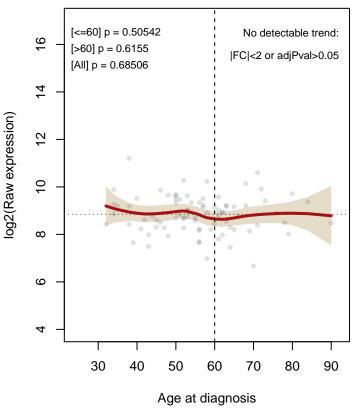
KDM6B (non-ER binding)

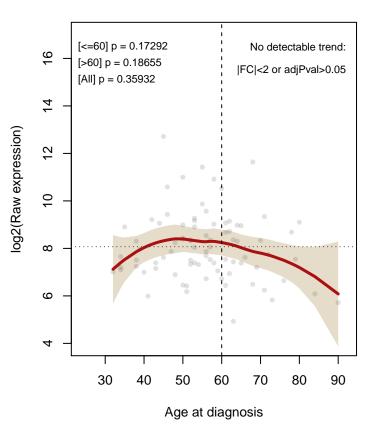






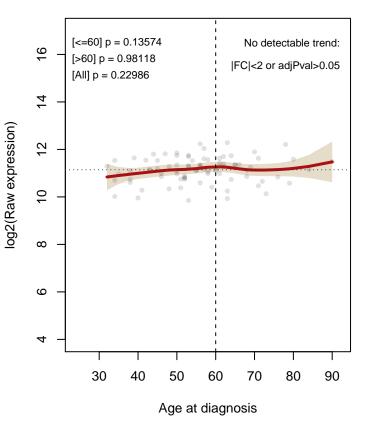
KIT (non-ER binding)

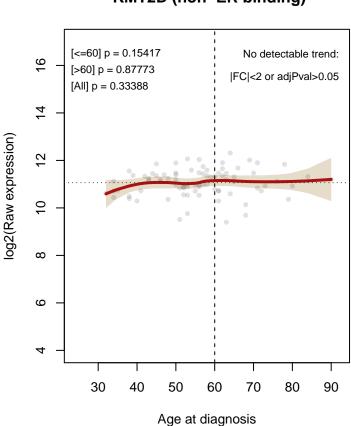




KMT2C (non-ER binding)

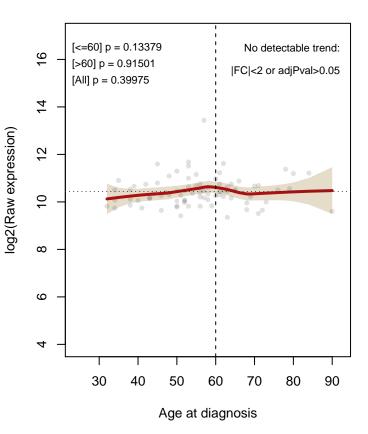
KMT2D (non-ER binding)

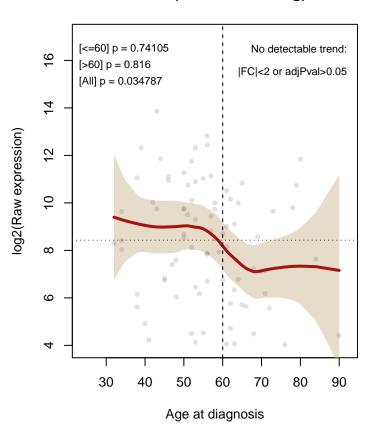






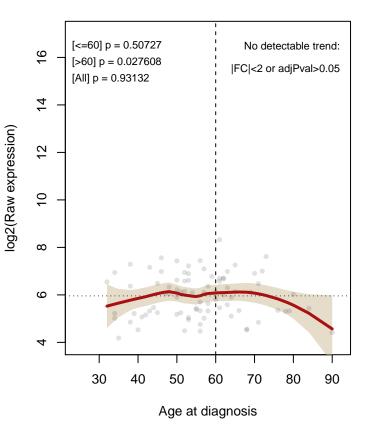
KRT5 (non-ER binding)

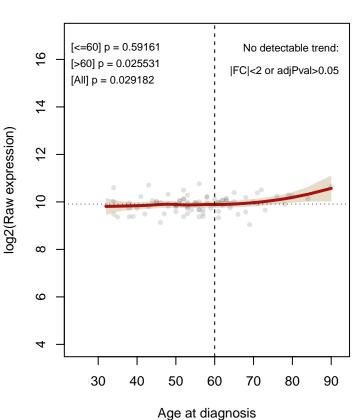




L3MBTL1 (non-ER binding)

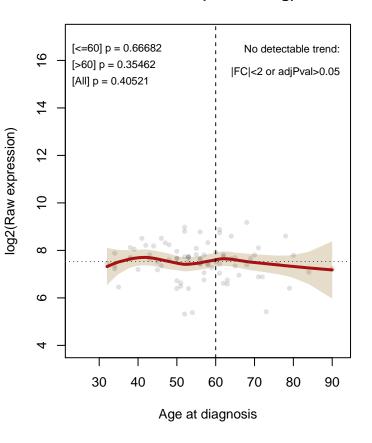
L3MBTL2 (non-ER binding)

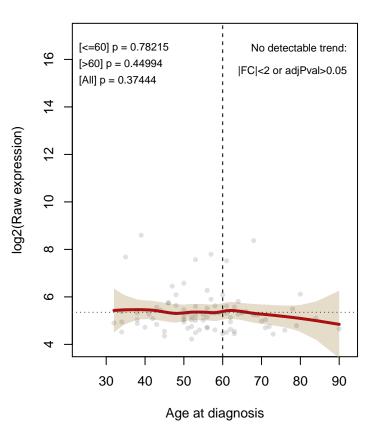




L3MBTL3 (ER binding)

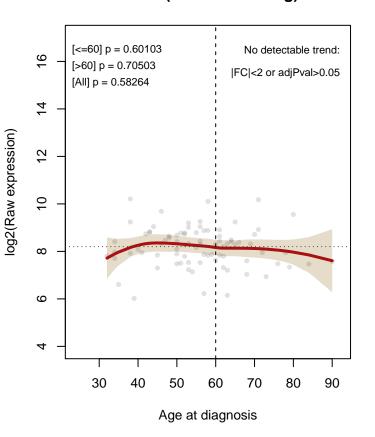
L3MBTL4 (non-ER binding)

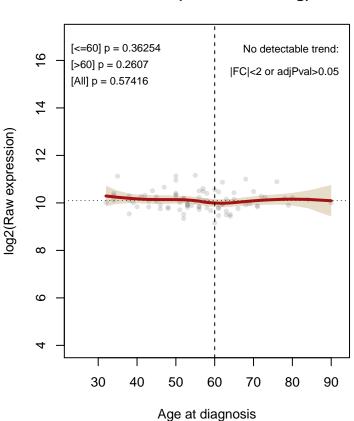




LEF1 (non-ER binding)

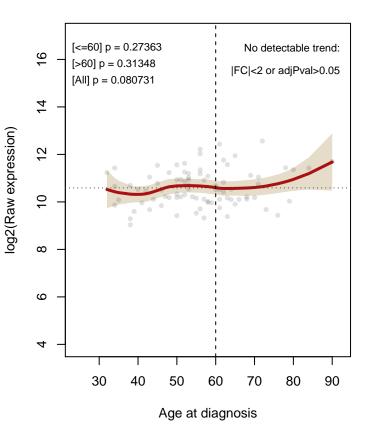
MAP2K1 (non-ER binding)

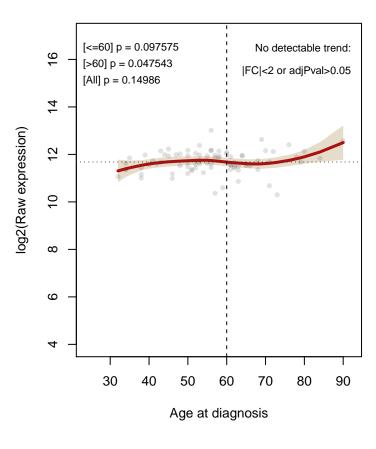






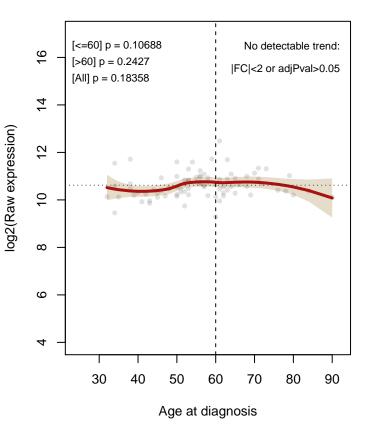
MAPK1 (non-ER binding)

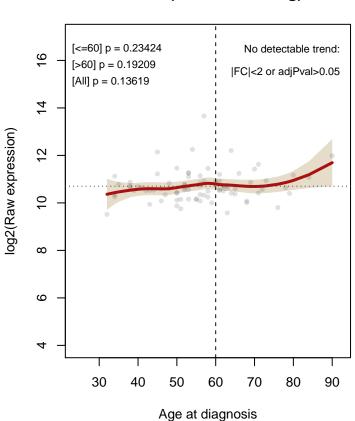


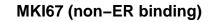


MAPK3 (non-ER binding)

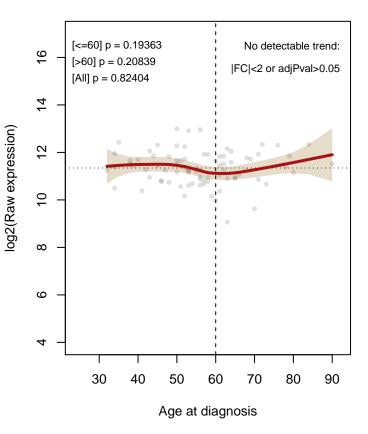
MDM2 (non-ER binding)

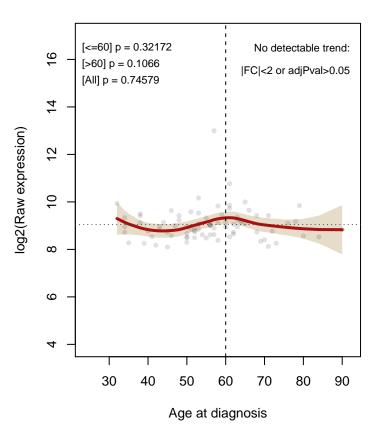






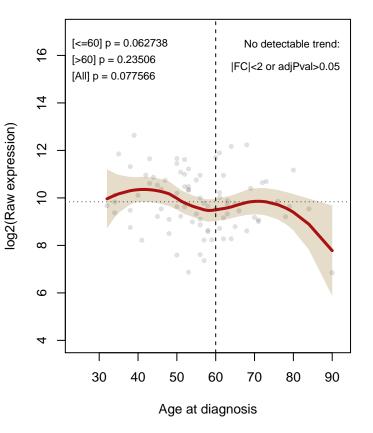
MTF2 (non-ER binding)

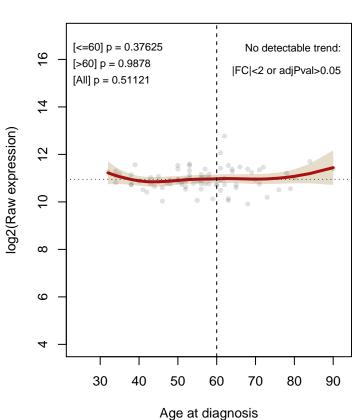




MYC (non-ER binding)

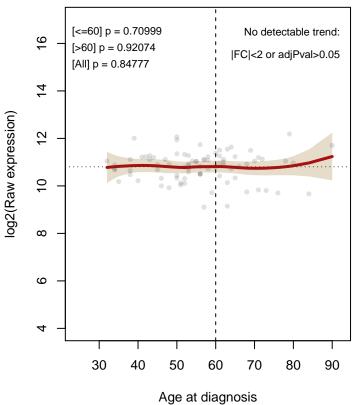
NCOA6 (non-ER binding)

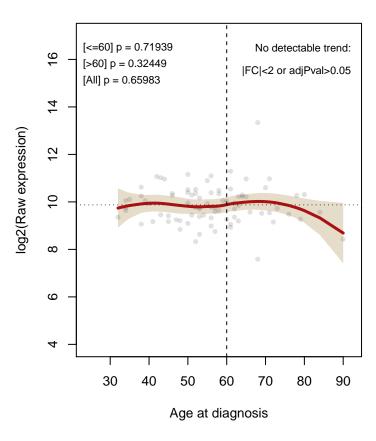




NCOR1 (non-ER binding)

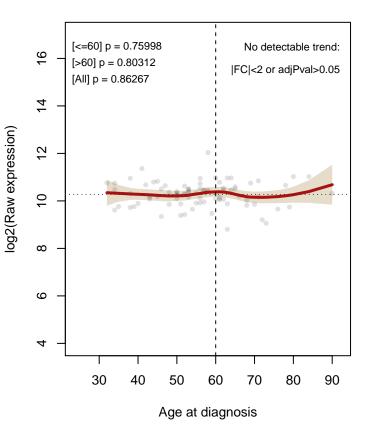
NES (non-ER binding)

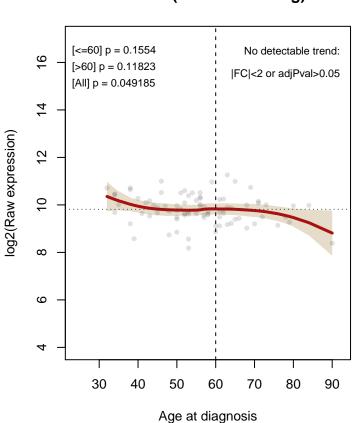




NFKB1 (non-ER binding)

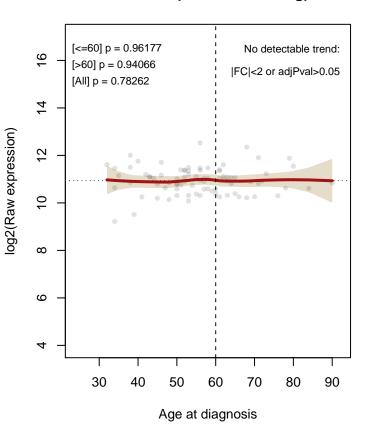
NFKB2 (non-ER binding)

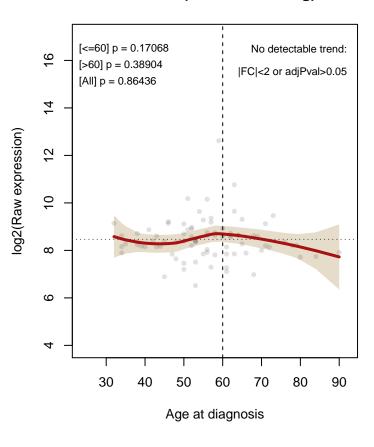




NFKBIA (non-ER binding)

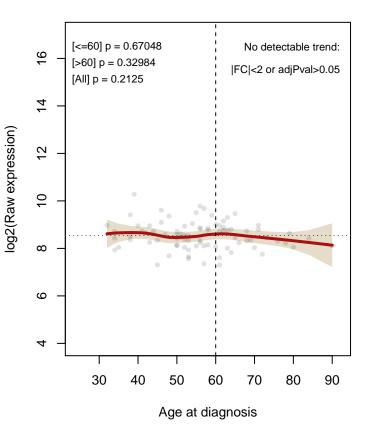
NFKBIB (non-ER binding)

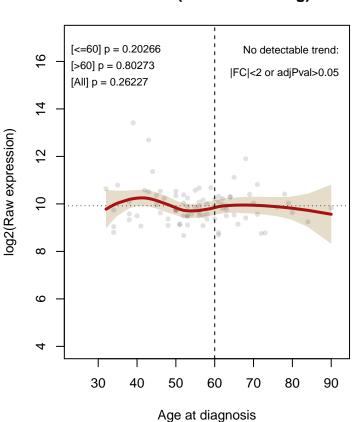




NFKBIE (non-ER binding)

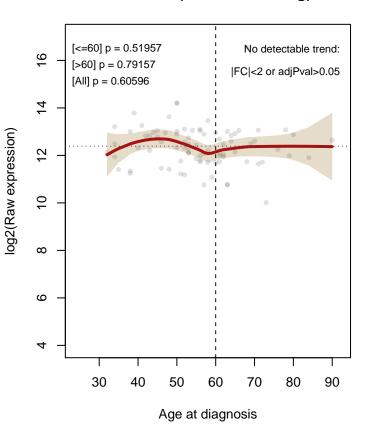
NOTCH1 (non-ER binding)

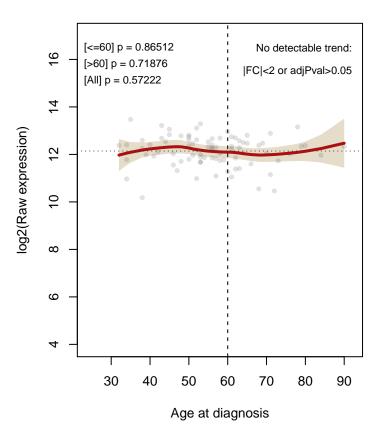




NOTCH2 (non-ER binding)

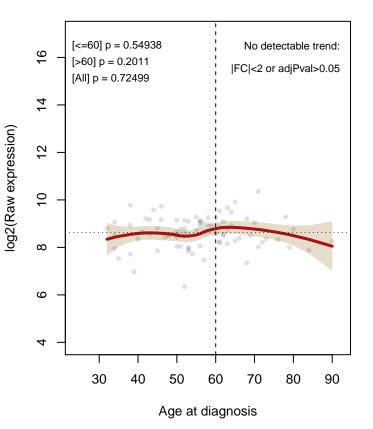
NOTCH3 (non-ER binding)

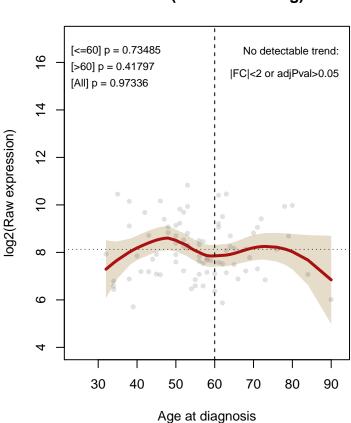


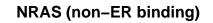


NOTCH4 (non-ER binding)

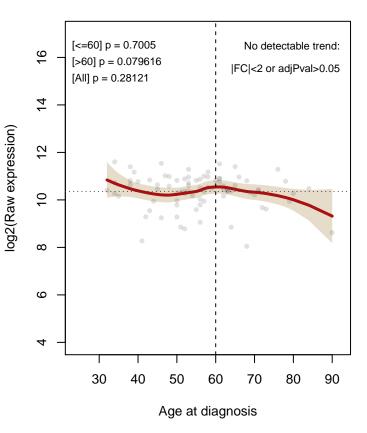
NR4A2 (non-ER binding)

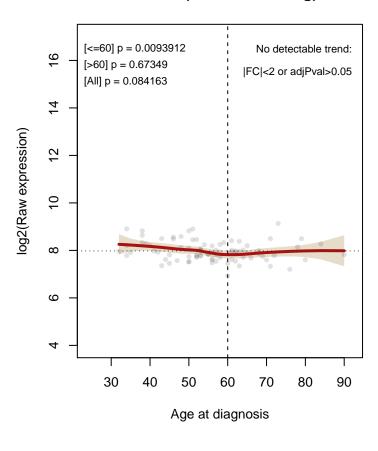






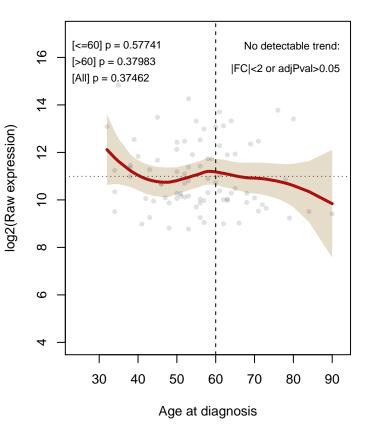
PCGF1 (non-ER binding)

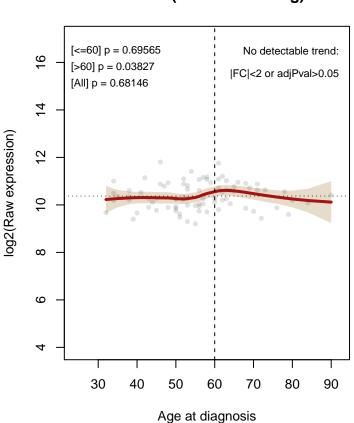




PCGF2 (non-ER binding)

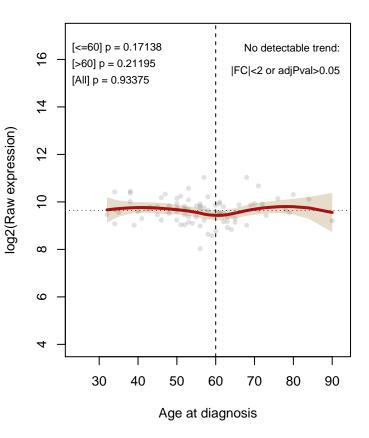
PCGF3 (non-ER binding)

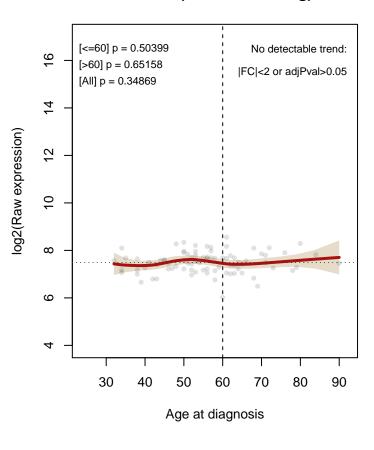






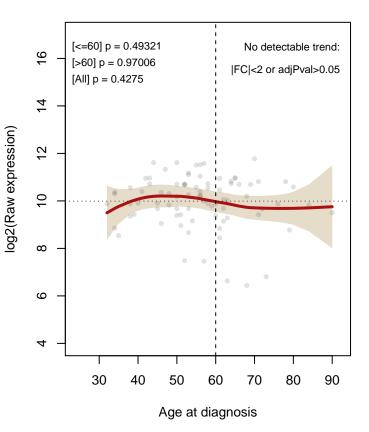
PCGF6 (non-ER binding)

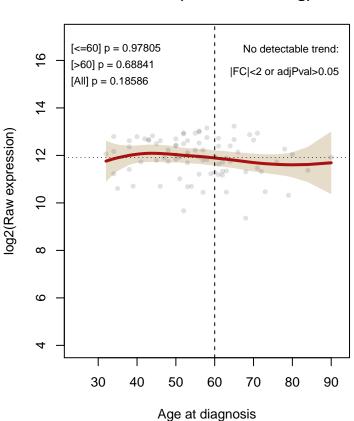


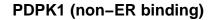


PDGFRA (non-ER binding)

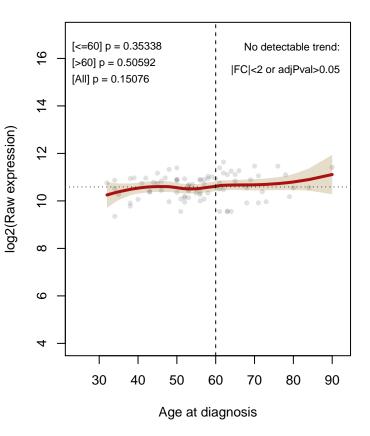
PDGFRB (non-ER binding)

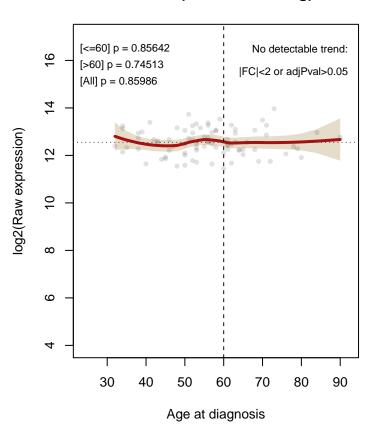






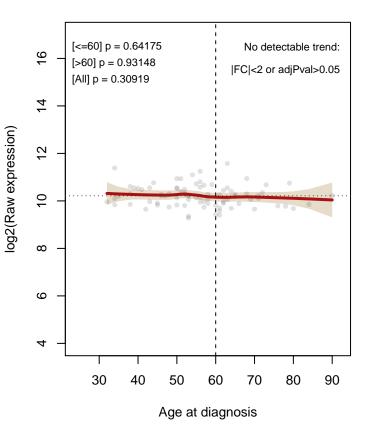
PEBP1 (non-ER binding)

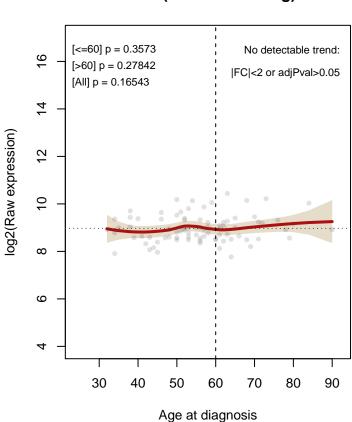


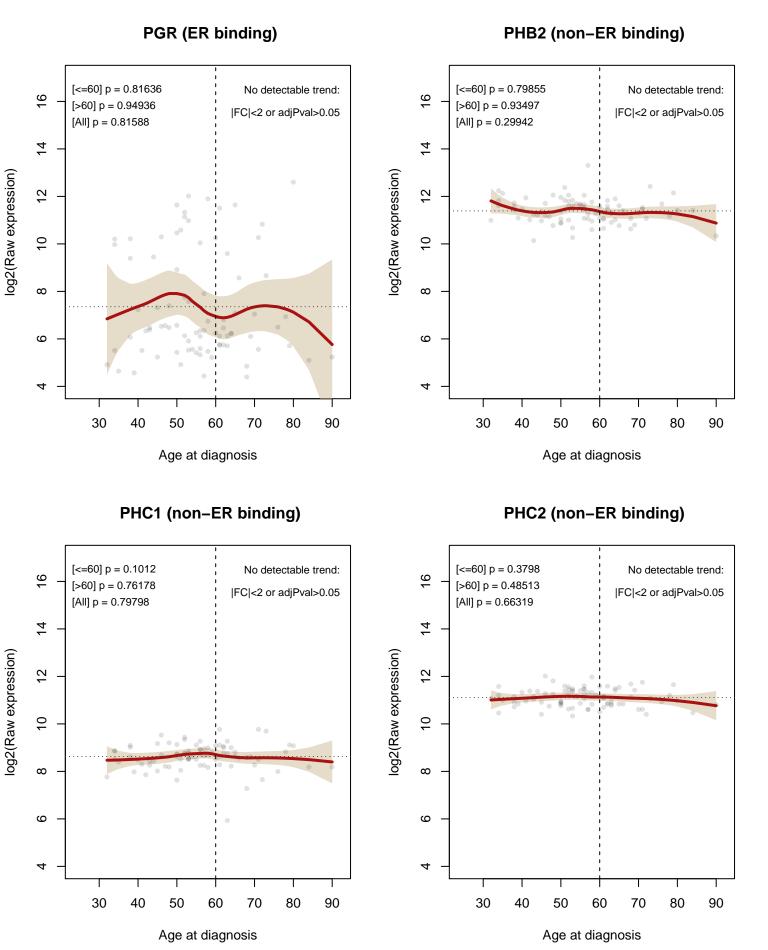


PELP1 (non-ER binding)

PGP (non-ER binding)

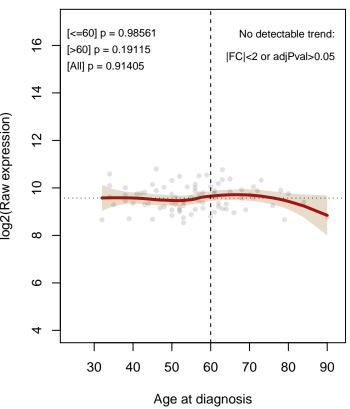






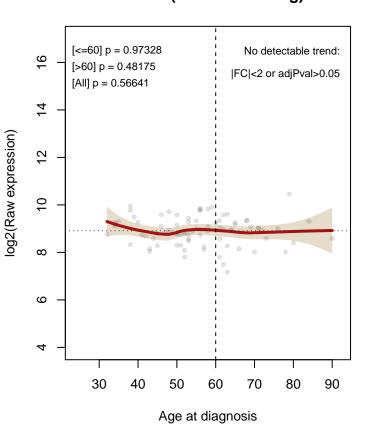
PHC3 (non-ER binding) [<=60] p = 0.9401No detectable trend: 16 [>60] p = 0.8483 |FC|<2 or adjPval>0.05 [All] p = 0.177444 log2(Raw expression) log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

PHF1 (non-ER binding)

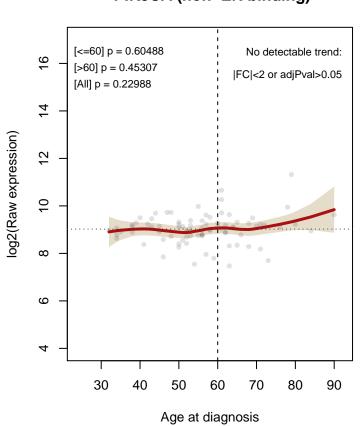


PHF19 (non-ER binding)

Age at diagnosis

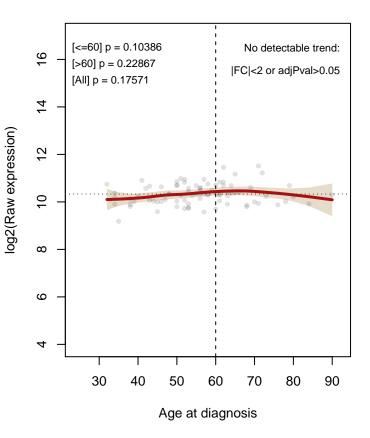


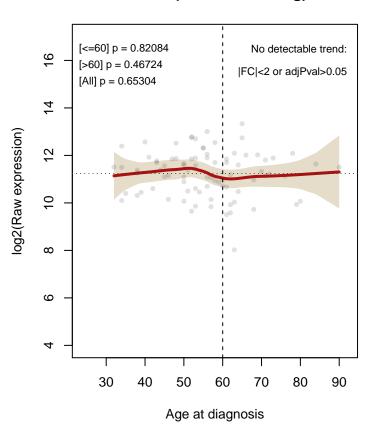
PIK3CA (non-ER binding)





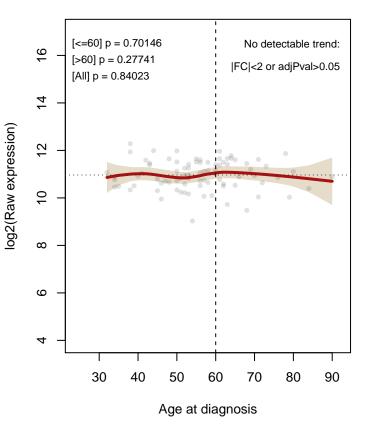
PLAU (non-ER binding)

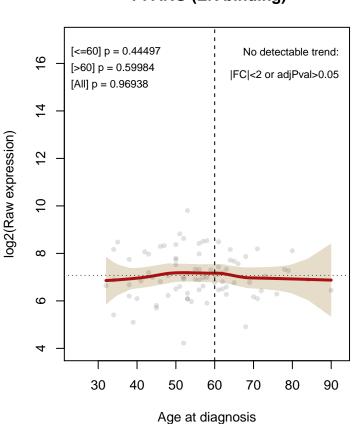


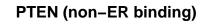


PODXL (non-ER binding)

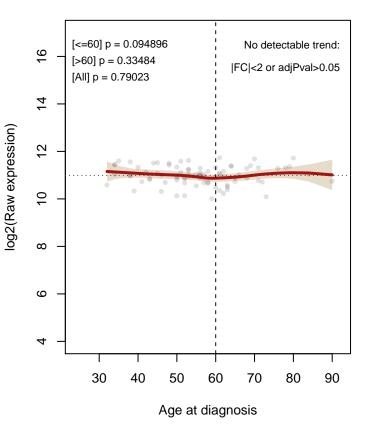
PPARG (ER binding)

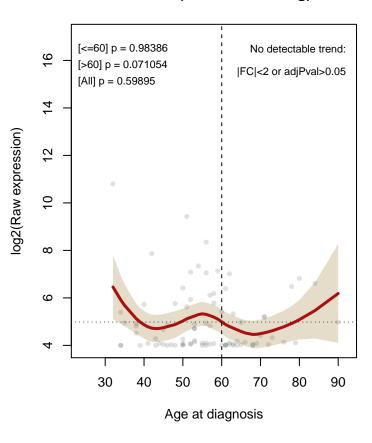






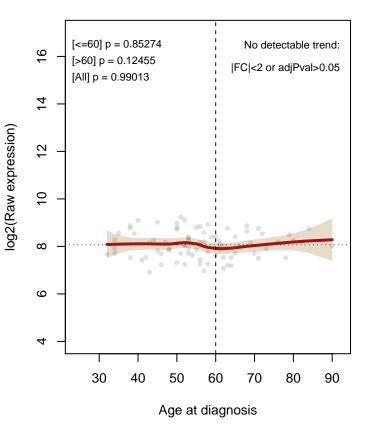
PYDC1 (non-ER binding)

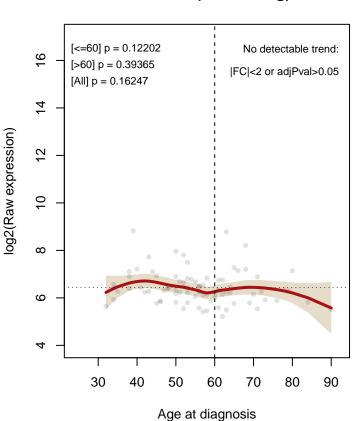




RAD51 (non-ER binding)

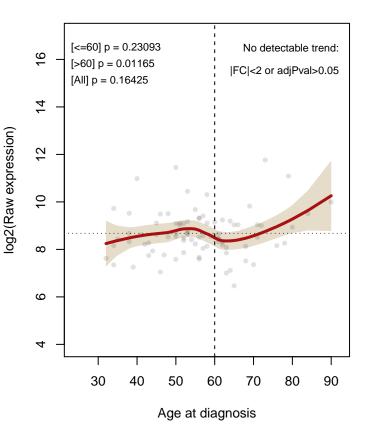
RAD51B (ER binding)

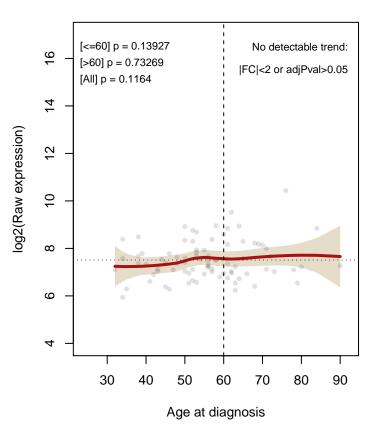




RAD51C (non-ER binding)

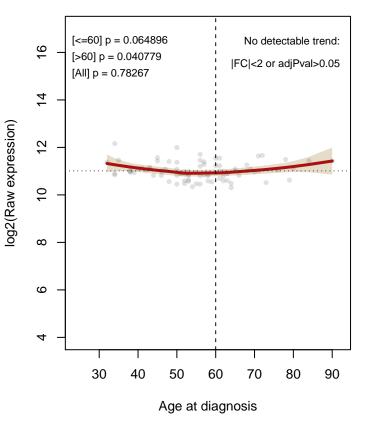
RAD51D (non-ER binding)

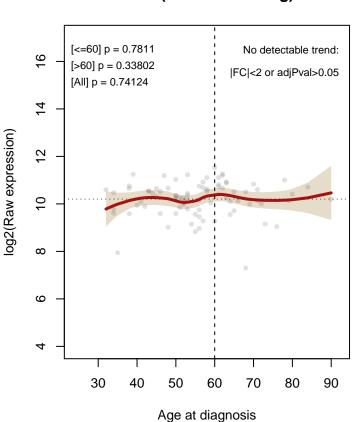




RAF1 (non-ER binding)

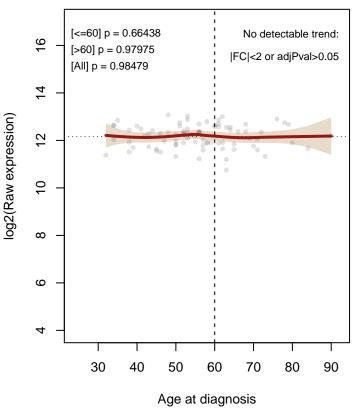
RB1 (non-ER binding)

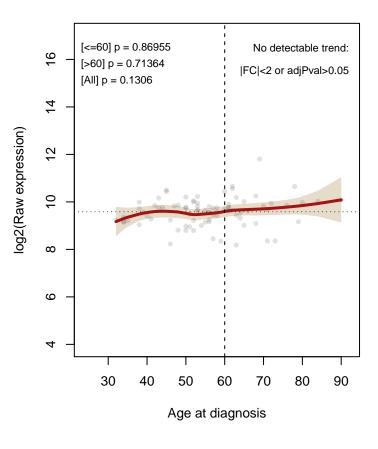






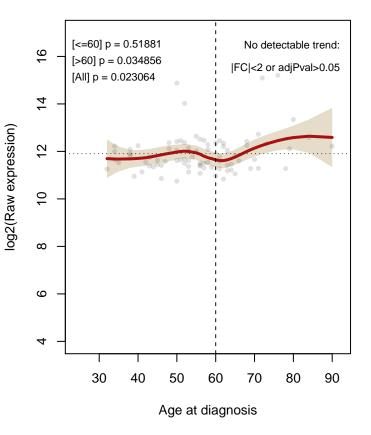
RBBP5 (non-ER binding)

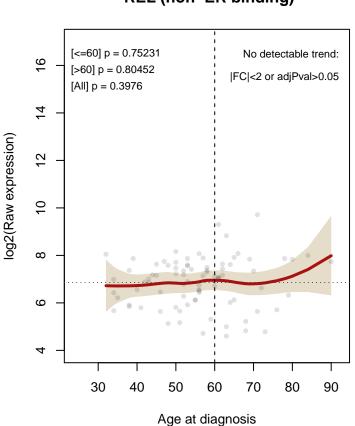


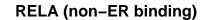


RBBP7 (non-ER binding)

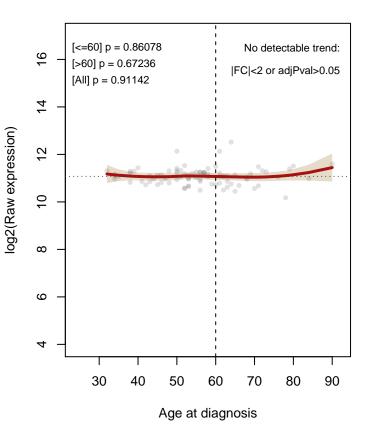
REL (non-ER binding)

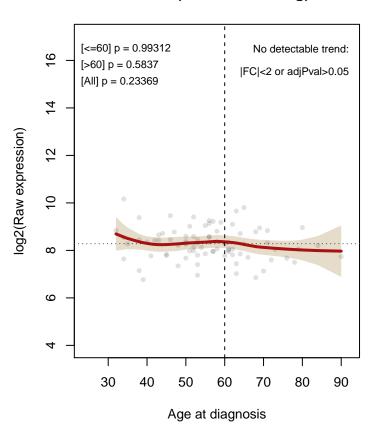






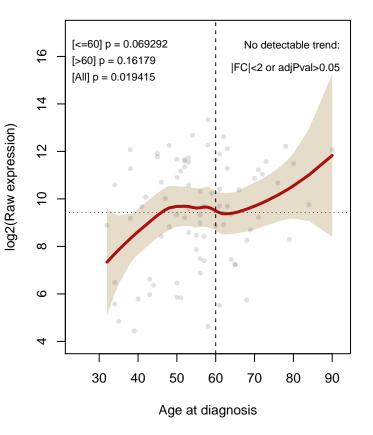
RELB (non-ER binding)

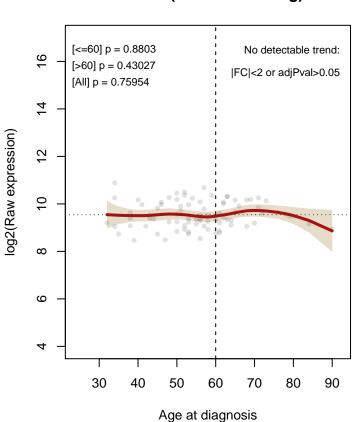




RET (ER binding)

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|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.35823[All] p = 0.0299454 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **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|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.37105[All] p = 0.0041574 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

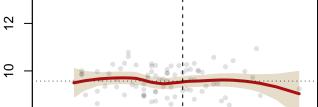
80

90

SCMH1 (non-ER binding)

[<=60] p = 0.45902No detectable trend:





log2(Raw expression)

ω 9

Age at diagnosis

50

30

40

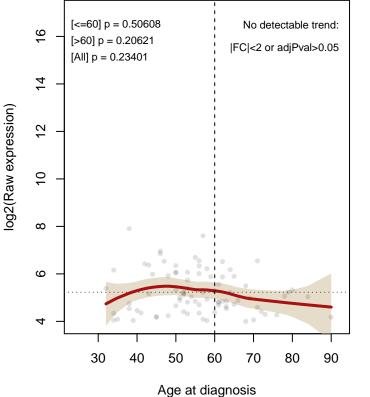
SCML4 (non-ER binding)

60

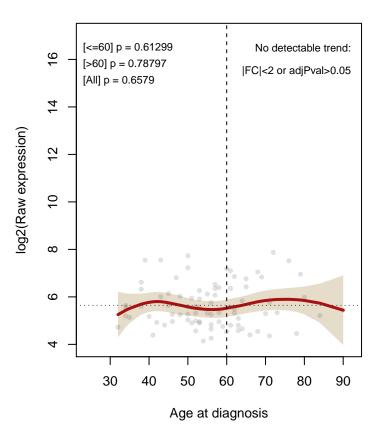
70

80

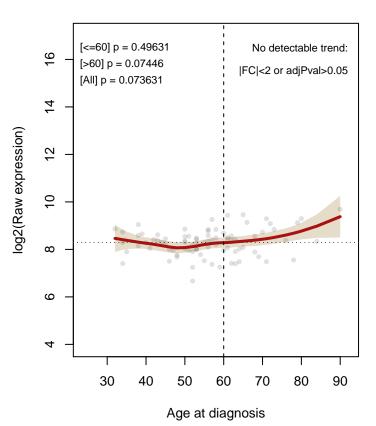
90



SCML2 (non-ER binding)

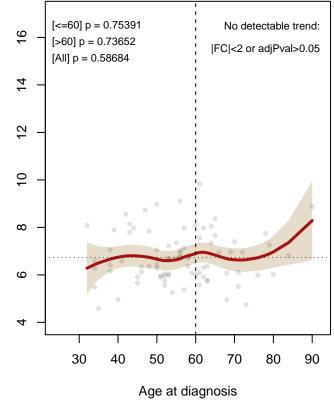


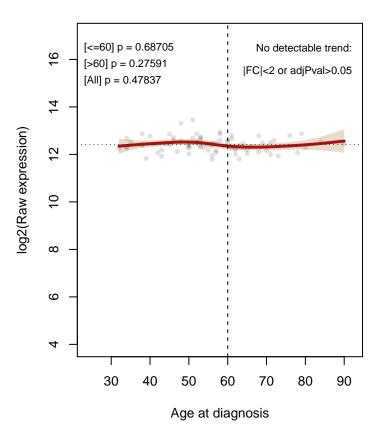
SFMBT1 (ER binding)



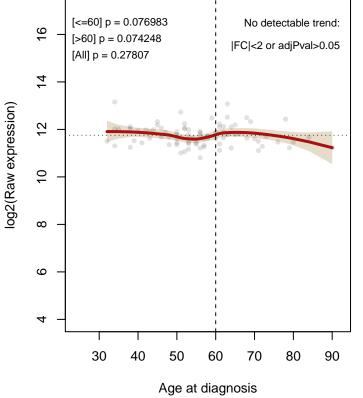
SFMBT2 (ER binding) [<=60] p = 0.7539116 [>60] p = 0.73652 [All] p = 0.586844 log2(Raw expression)

SFPQ (non-ER binding)

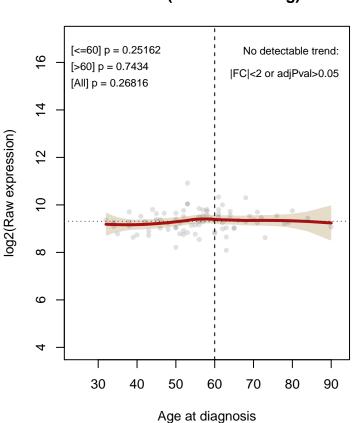




SHC1 (non-ER binding)

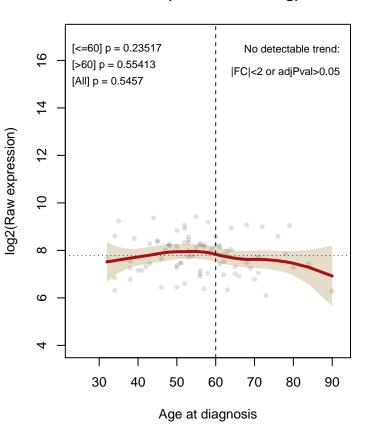


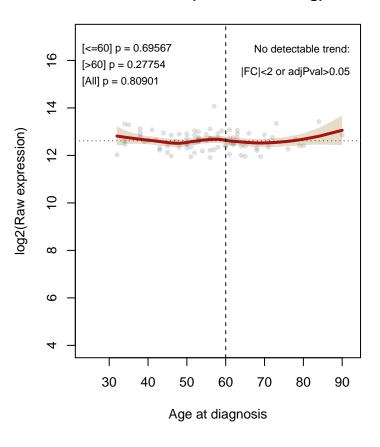
SIRT1 (non-ER binding)



SKP2 (non-ER binding)

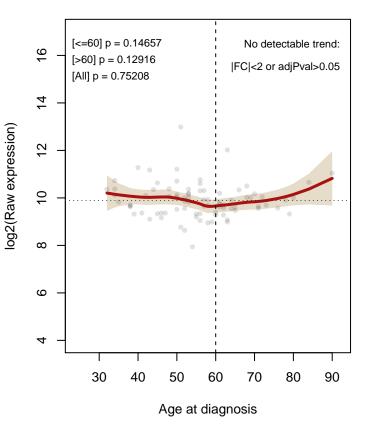
SLC25A3 (non-ER binding)

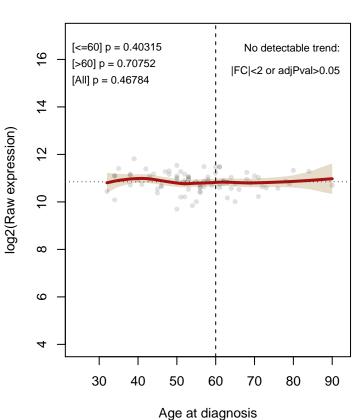




SMAD1 (non-ER binding)

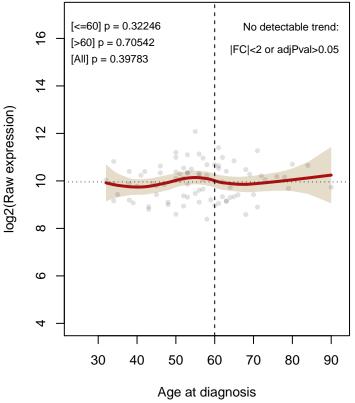
SMAD2 (non-ER binding)

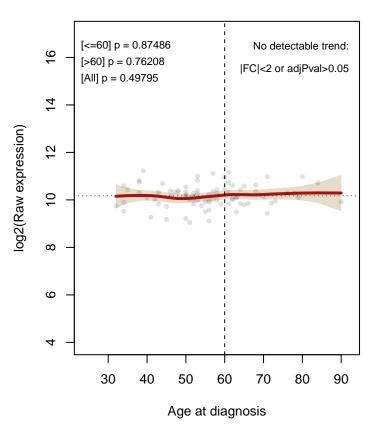




SMAD3 (ER binding) [<=60] p = 0.3224616 [>60] p = 0.70542 [All] p = 0.39783

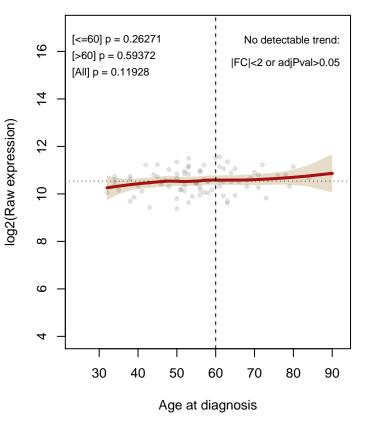
SMAD4 (non-ER binding)

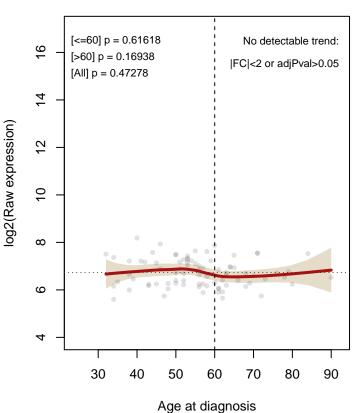


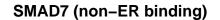


SMAD5 (non-ER binding)

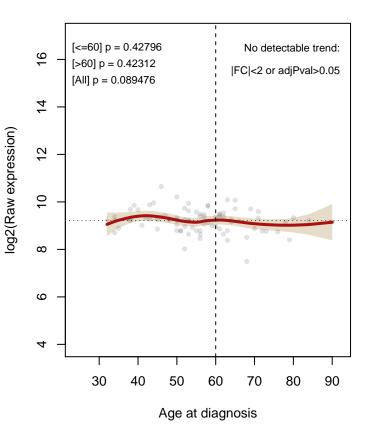
SMAD6 (non-ER binding)

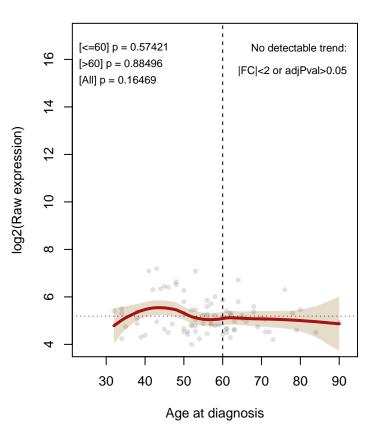






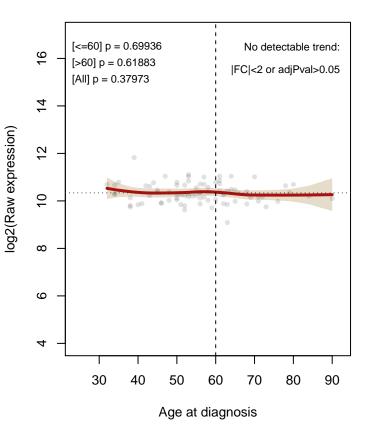
SMAD9 (non-ER binding)

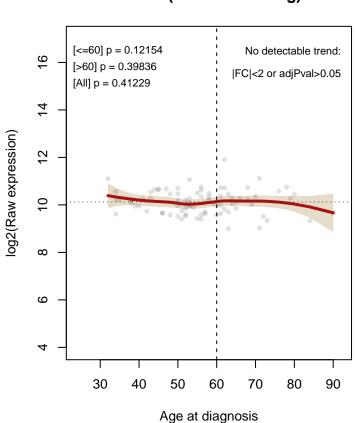


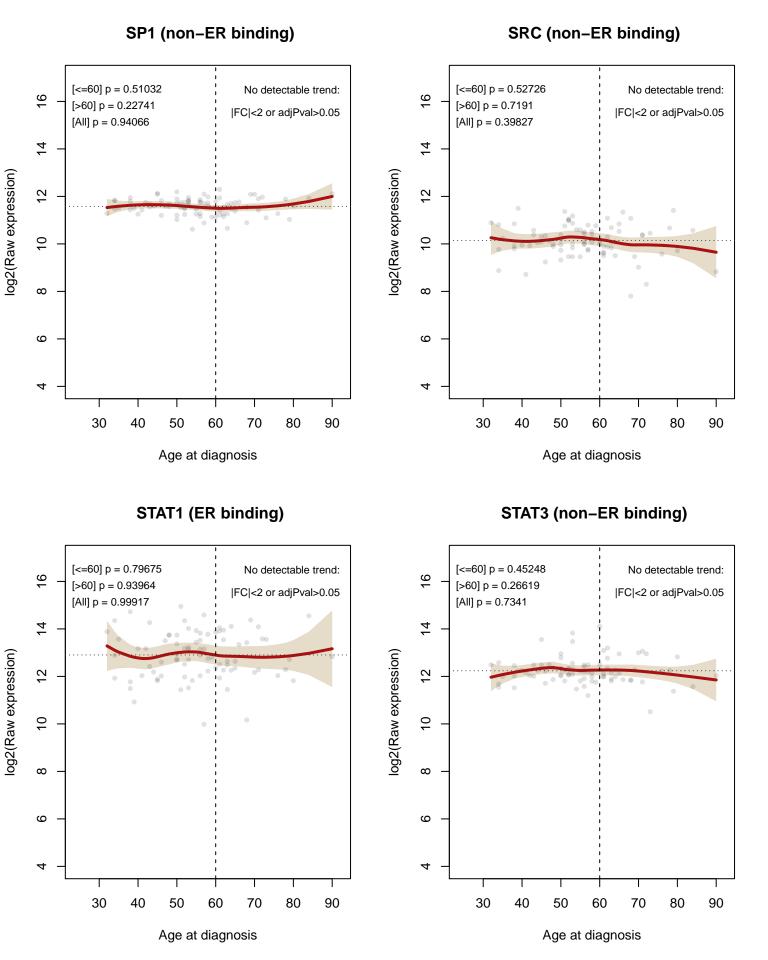


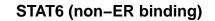
SOS1 (non-ER binding)

SOS2 (non-ER binding)

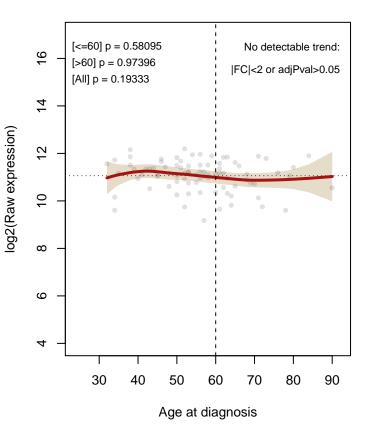


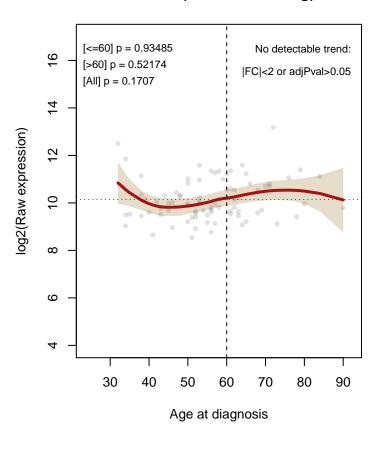






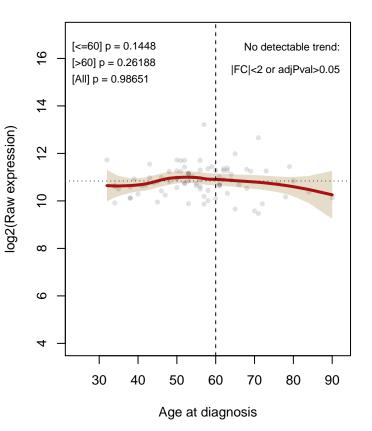
SUZ12 (non-ER binding)

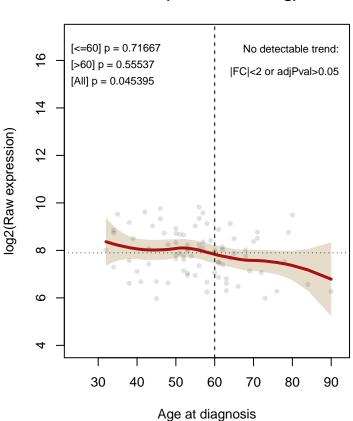




TCF3 (non-ER binding)

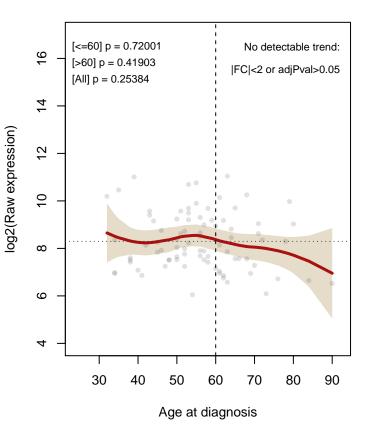
TCF7 (non-ER binding)

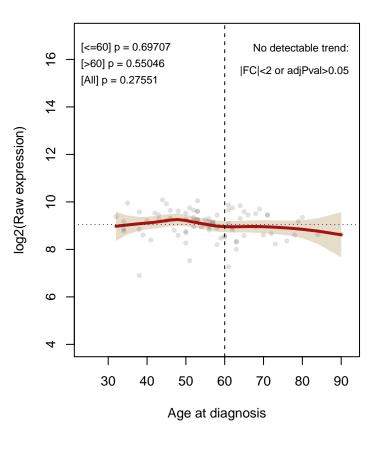






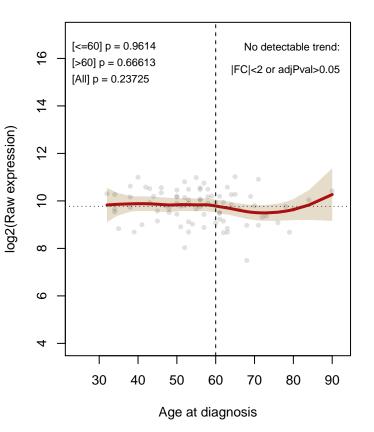
TCF7L2 (non-ER binding)

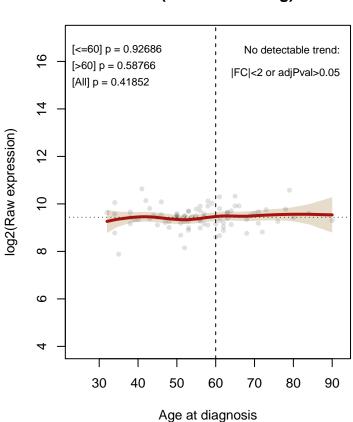


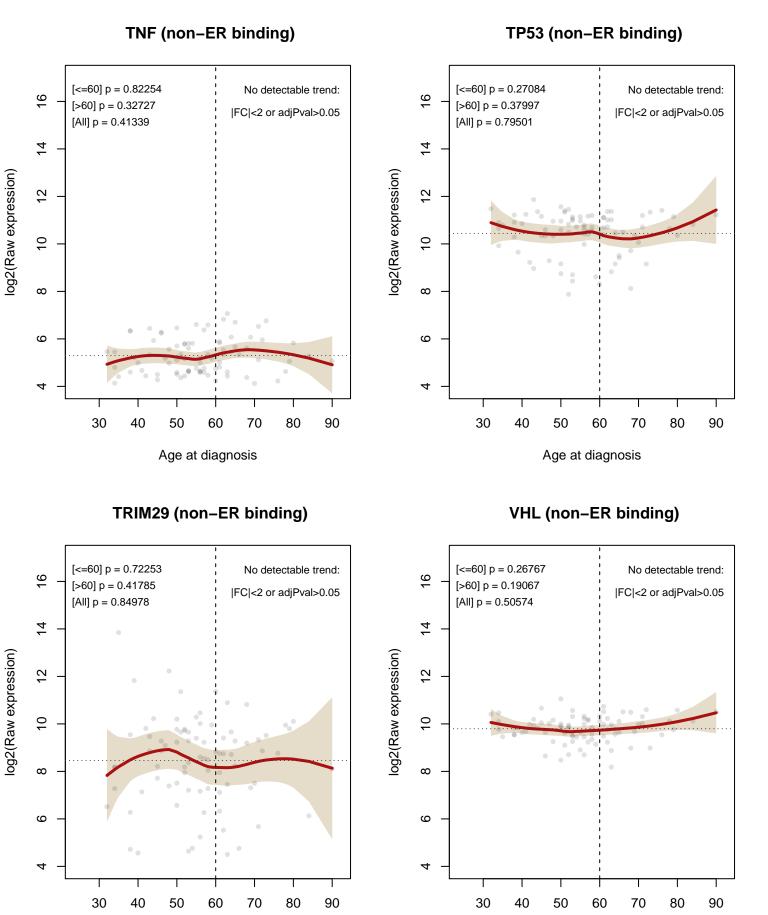


TGFB1 (non-ER binding)

TK2 (non-ER binding)







Age at diagnosis

Age at diagnosis



[<=60] p = 0.28674No detectable trend: [>60] p = 0.77068|FC|<2 or adjPval>0.05



16

12

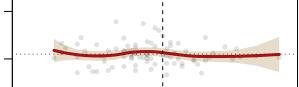
9

4

30

40

log2(Raw expression)



19 ω

Age at diagnosis

60

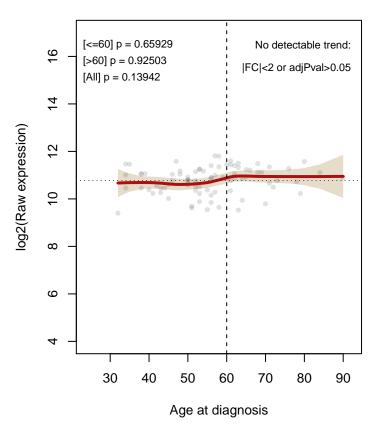
70

80

90

50

WHSC1 (non-ER binding)

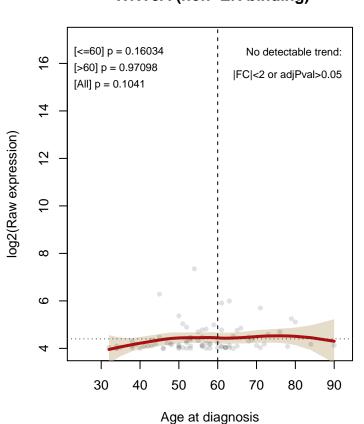


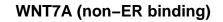
WNT1 (non-ER binding)

[<=60] p = 0.74742 No detectable trend: 16 [>60] p = 0.14483 |FC|<2 or adjPval>0.05 [AII] p = 0.0978344 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

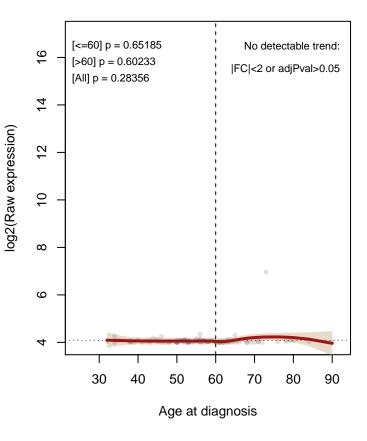
Age at diagnosis

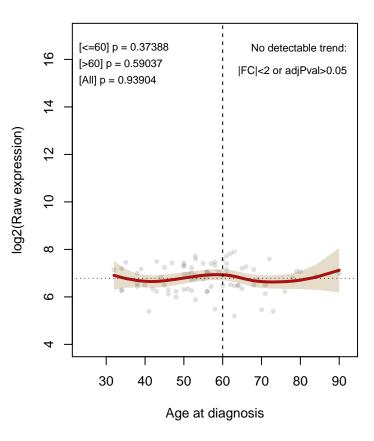
WNT3A (non-ER binding)





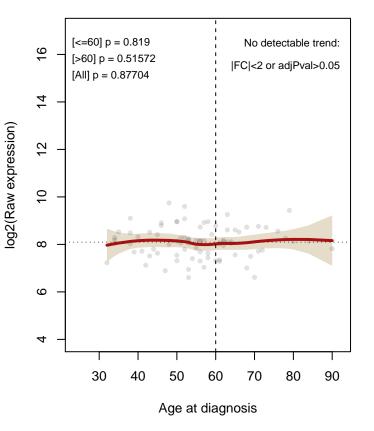
XRCC2 (non-ER binding)

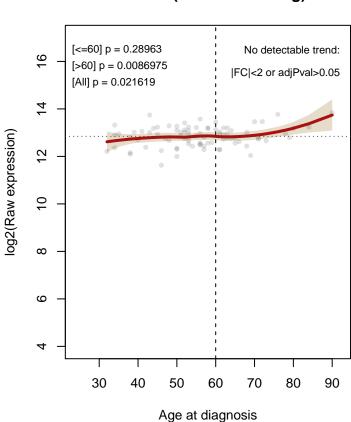




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

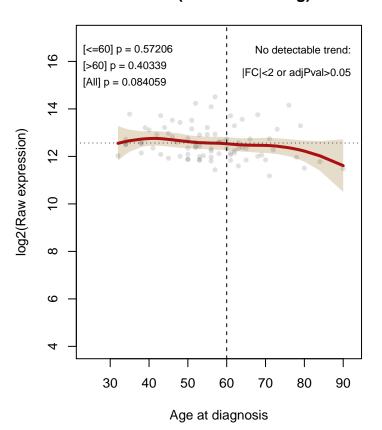




YAF2 (non-ER binding)

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YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

