

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.39277No detectable trend: [<=60] p = 0.039043No detectable trend: 16 16 [>60] p = 0.67944[>60] p = 0.34992 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.2492[All] p = 0.334854 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 = 0.87446No detectable trend: [<=60] p = 0.92071No detectable trend: 16 16 [>60] p = 0.20894 [>60] p = 0.05755 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.28506[All] p = 0.919524 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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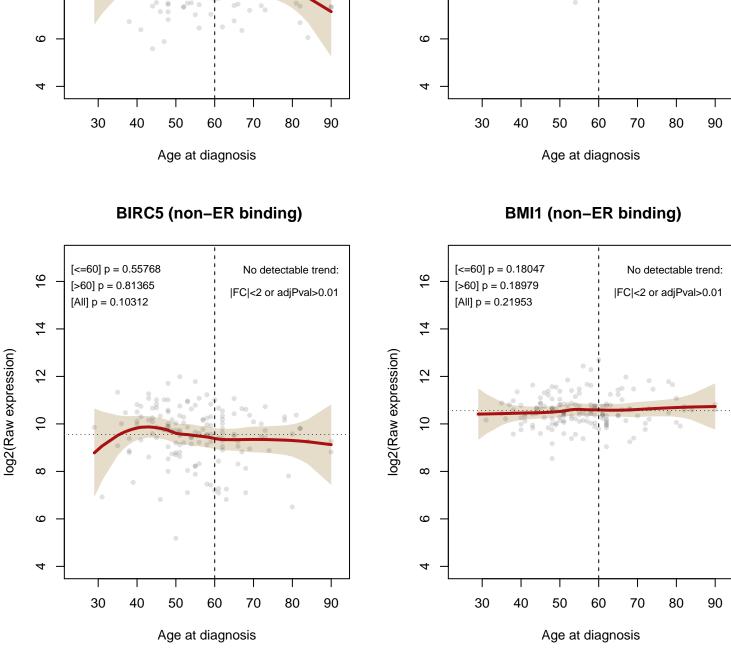
Age at diagnosis

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BCL2 (non-ER binding) BCL3 (non-ER binding) [<=60] p = 0.8545No detectable trend: [<=60] p = 0.83959No detectable trend: 16 16 [>60] p = 0.087222 [>60] p = 0.70592 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.097917[All] p = 0.177664 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 BIRC5 (non-ER binding)



BRCA1 (non-ER binding) BMX (non-ER binding) [<=60] p = 0.29988No detectable trend: [<=60] p = 0.22728No detectable trend: 16 16 [>60] p = 0.91315 [>60] p = 0.30828 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.99602[All] p = 0.703874 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 = 0.13454No detectable trend: [<=60] p = 0.60962No detectable trend: 16 16 [>60] p = 0.10029 [>60] p = 0.64067 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.17509[All] p = 0.626584 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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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 = 0.33692No detectable trend: [<=60] p = 0.79639No detectable trend: 16 16 [>60] p = 0.53489 [>60] p = 0.40949 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.49787[All] p = 0.415664 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 = 0.78423No detectable trend: [<=60] p = 0.50361No detectable trend: 16 16 [>60] p = 0.49407 [>60] p = 0.27223 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.76884[All] p = 0.359234 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

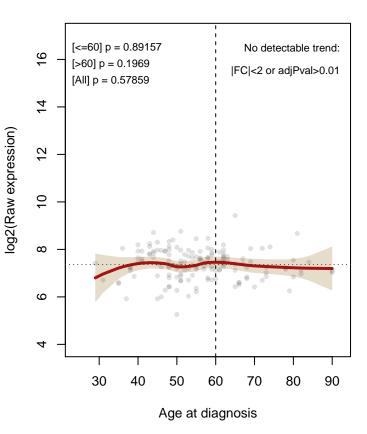
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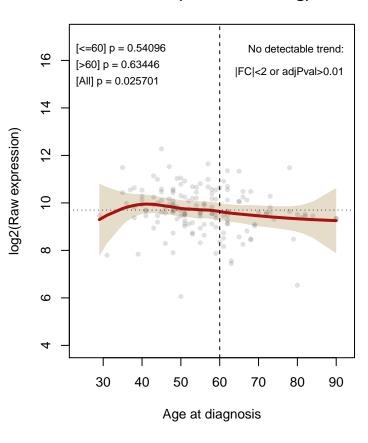
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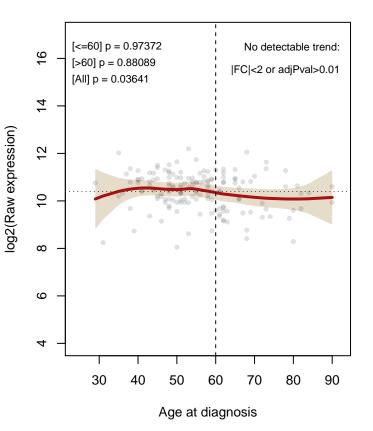
CCNA2 (non-ER binding)

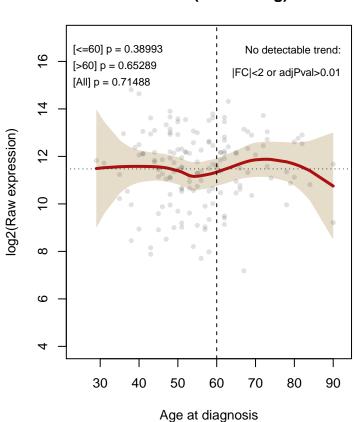


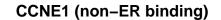


CCNB1 (non-ER binding)

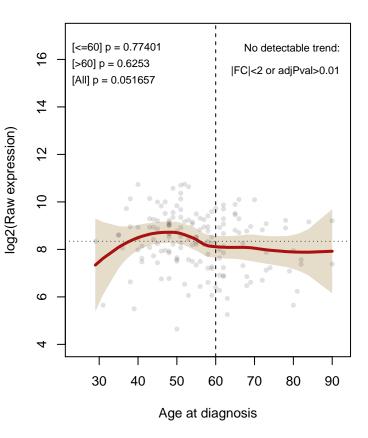
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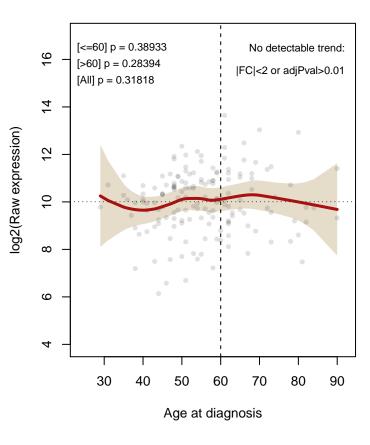






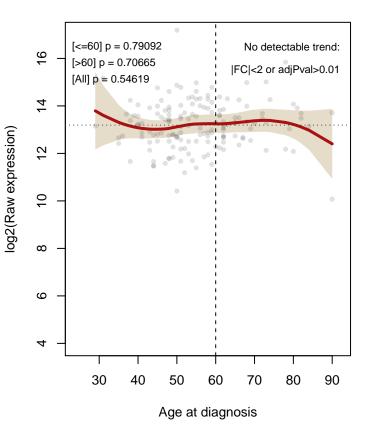
CD163 (non-ER binding)

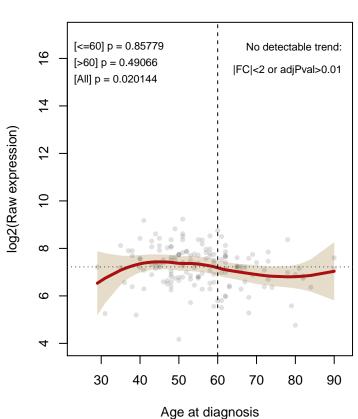


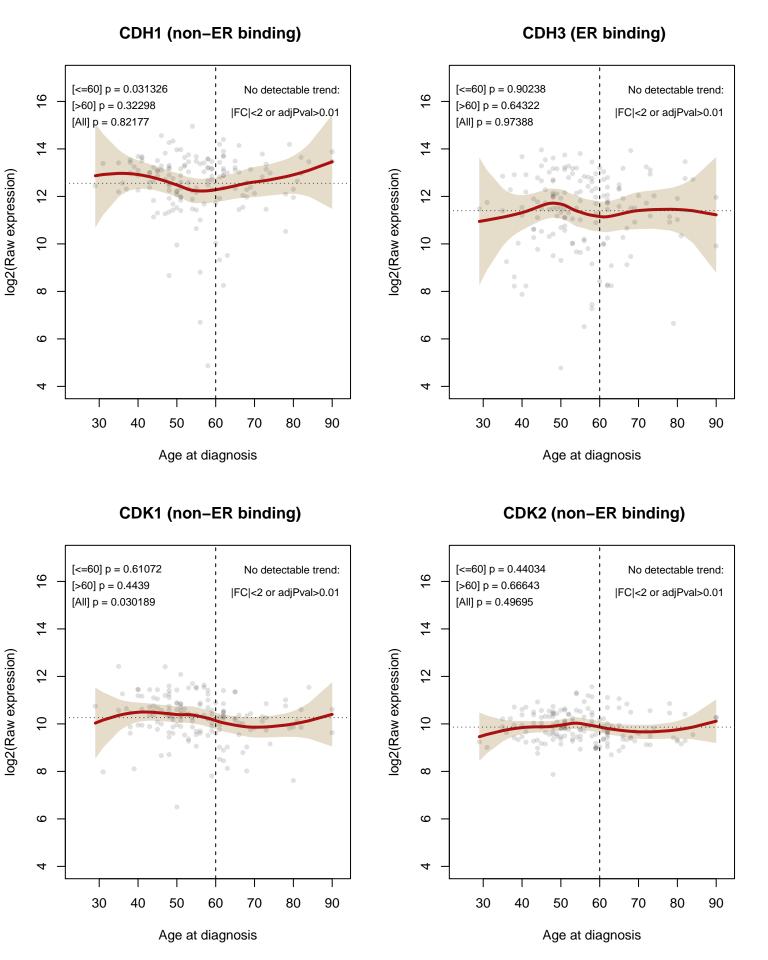


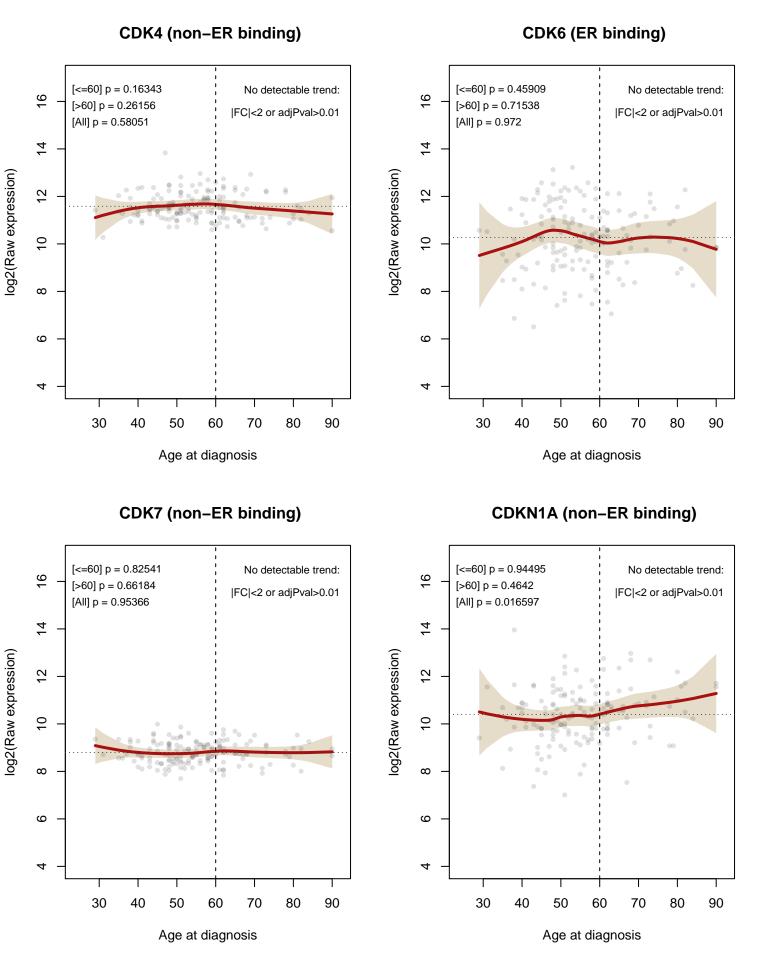
CD44 (non-ER binding)

CDC25C (non-ER binding)



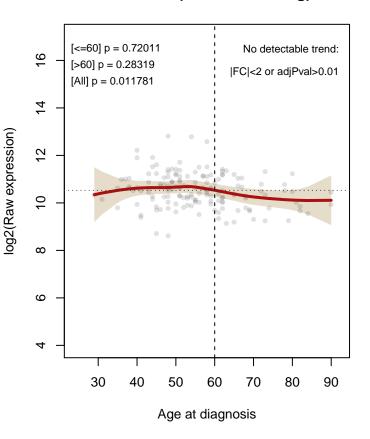


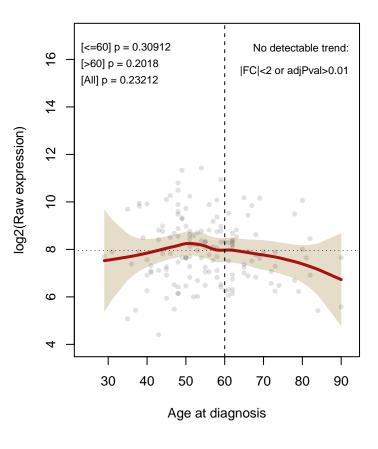




CDKN1B (non-ER binding)

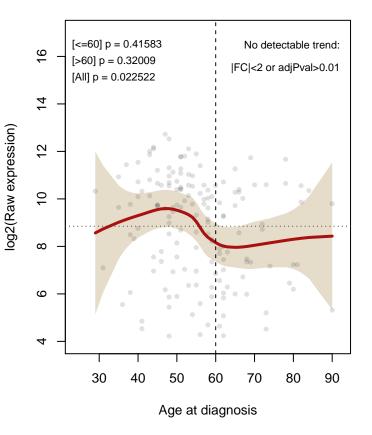
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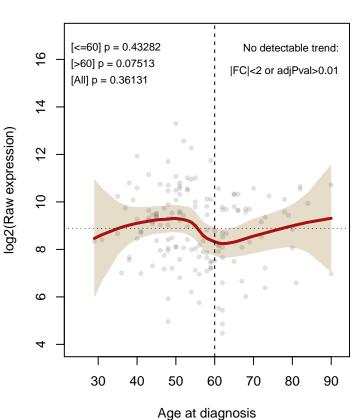




CDKN2A (non-ER binding)

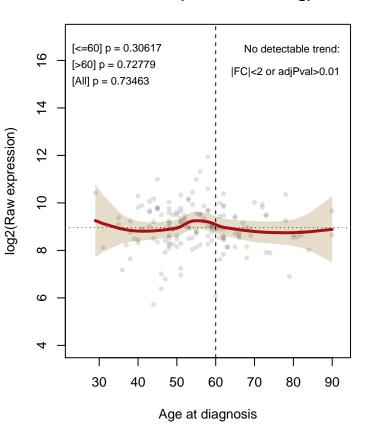
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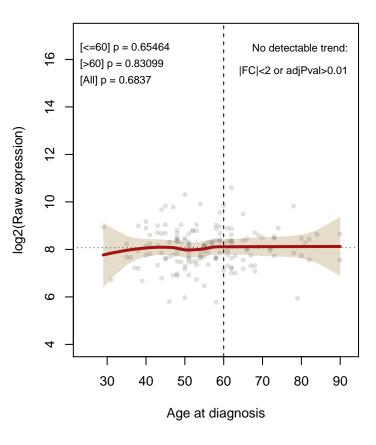




CDKN2C (non-ER binding)

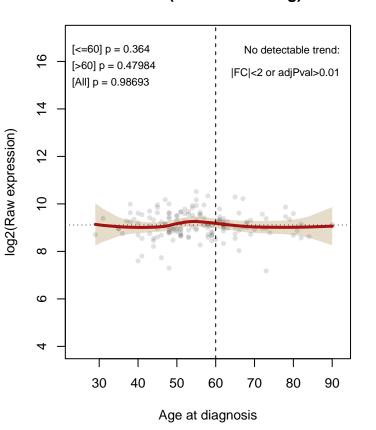
CDKN2D (non-ER binding)

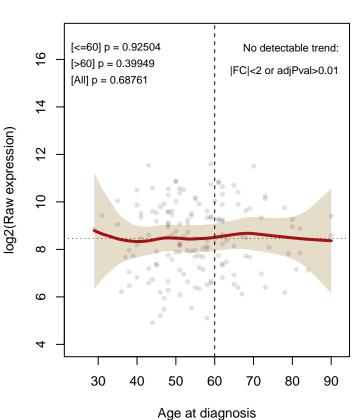




CHUK (non-ER binding)

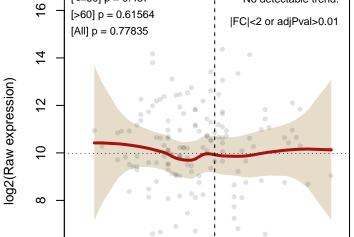
CIITA (non-ER binding)





CLDN3 (non-ER binding)

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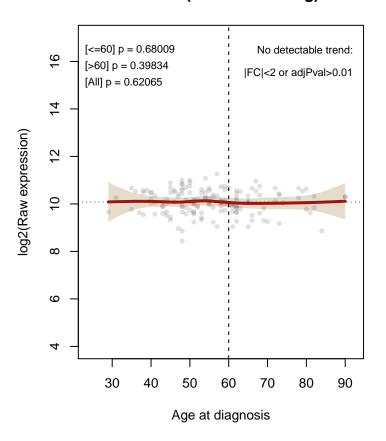
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CREB1 (non-ER binding)



CRYAB (non-ER binding)

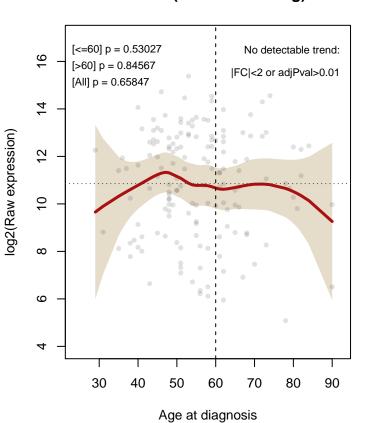
Age at diagnosis

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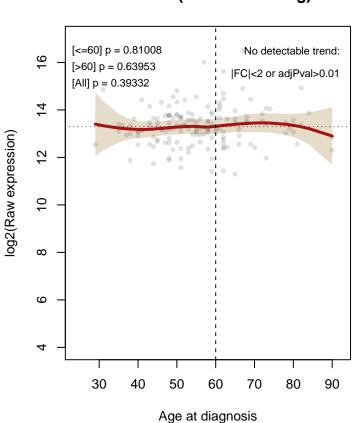
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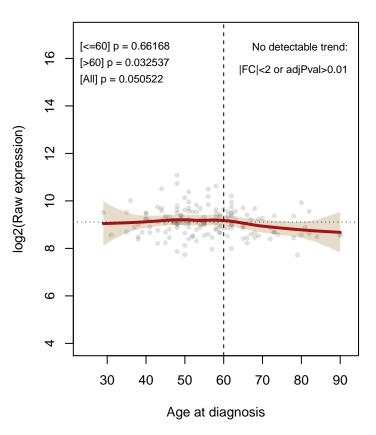


CTNNB1 (non-ER binding)

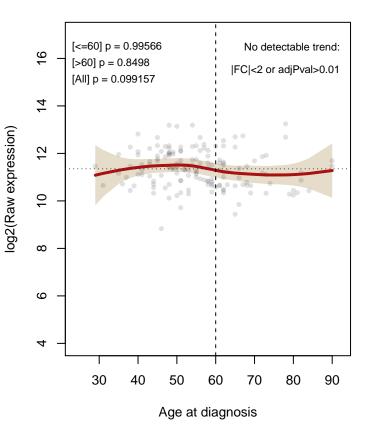


DLC1 (ER binding) [<=60] p = 0.85259No detectable trend: 16 [>60] p = 0.67848 |FC|<2 or adjPval>0.01 [AII] p = 0.605054 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90 Age at diagnosis

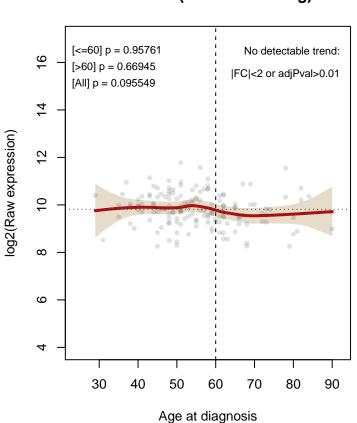
DMAP1 (non-ER binding)



DNMT1 (non-ER binding)



DNMT3A (non-ER binding)



DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.98731No detectable trend: [<=60] p = 0.5239No detectable trend: 16 16 [>60] p = 0.49033 [>60] p = 0.86817 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.49657[AII] p = 0.740954 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 = 0.96592No detectable trend: [<=60] p = 0.57147No detectable trend: 16 16 [>60] p = 0.89273 [>60] p = 0.95254 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.071631[All] p = 0.0451114 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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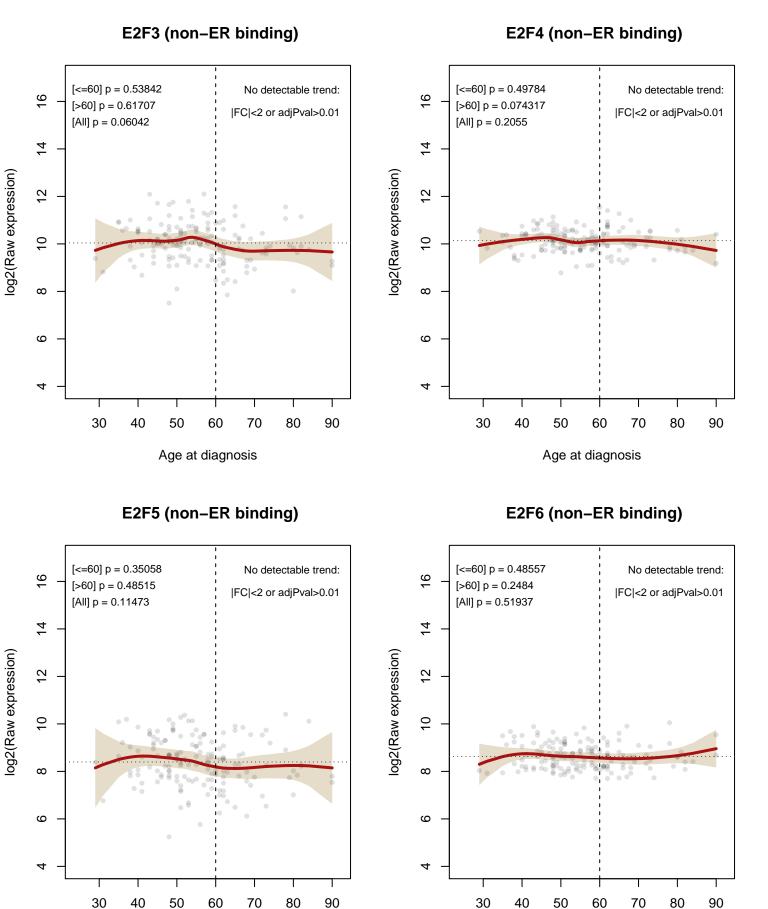
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Age at diagnosis

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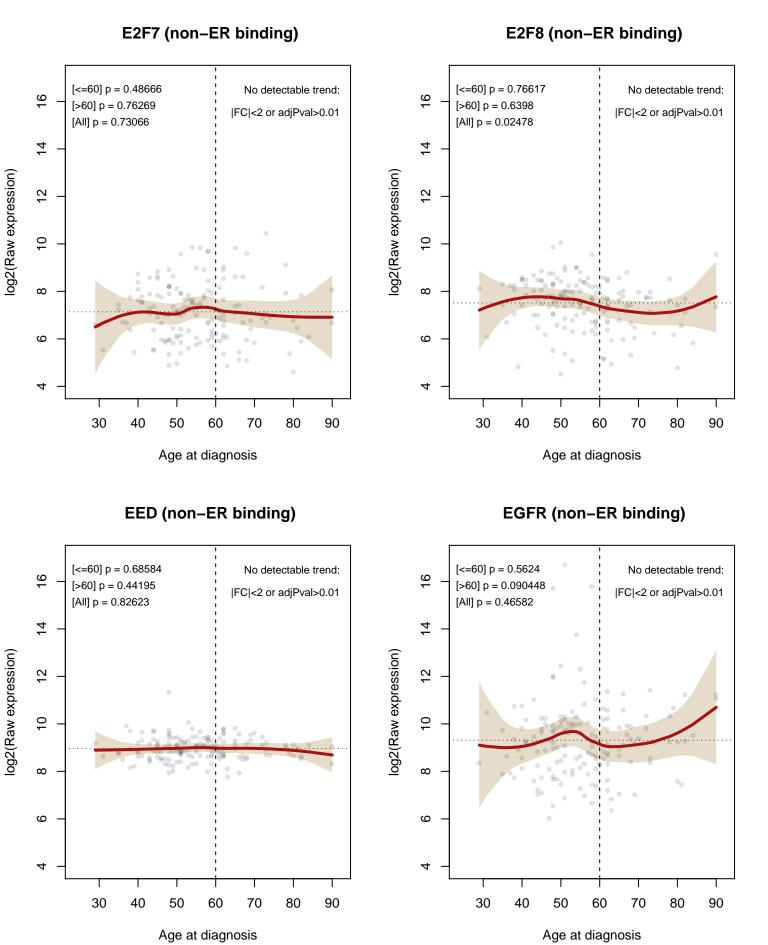
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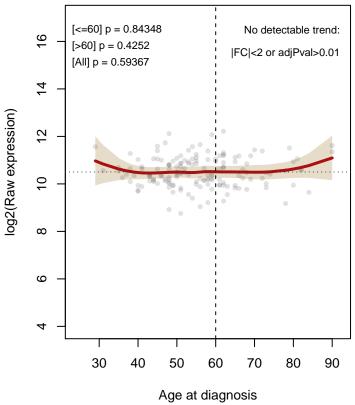
Age at diagnosis

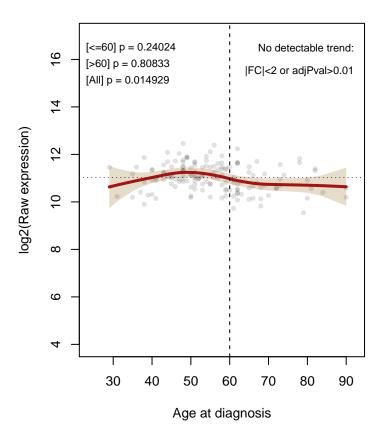
Age at diagnosis





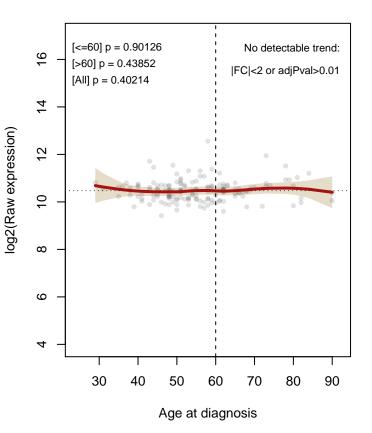
EHMT2 (non-ER binding)

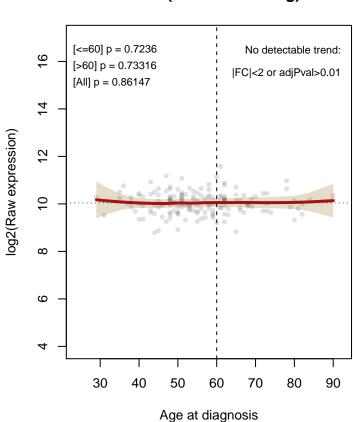




ELAC2 (non-ER binding)

ELK1 (non-ER binding)





EP300 (non-ER binding) **EPAS1** (non-ER binding) [<=60] p = 0.5645No detectable trend: [<=60] p = 0.60365No detectable trend: 16 16 [>60] p = 0.80621 [>60] p = 0.88249 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.40731[AII] p = 0.0403424 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 **EPC1** (non-ER binding) **EPC2** (non-ER binding) [<=60] p = 0.57595No detectable trend: [<=60] p = 0.36216No detectable trend: 16 16 [>60] p = 0.61268 [>60] p = 0.55157 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.11108[All] p = 0.570874 4 log2(Raw expression) log2(Raw expression) 12 12 19 10

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Age at diagnosis

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ω

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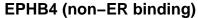
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Age at diagnosis

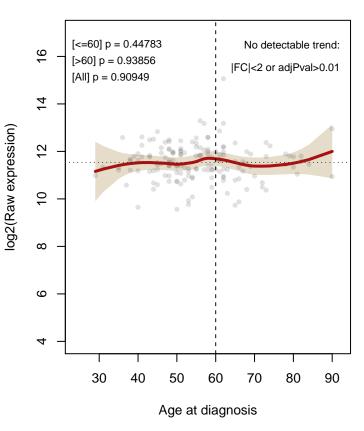
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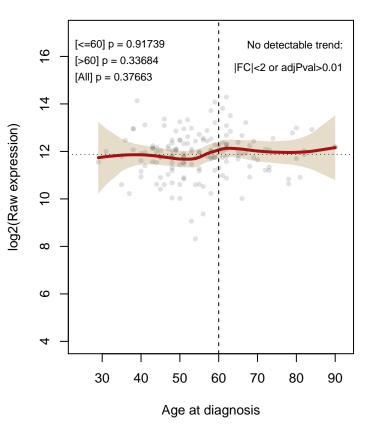
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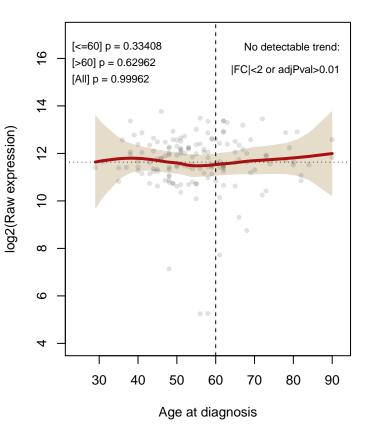
ERBB2 (non-ER binding)

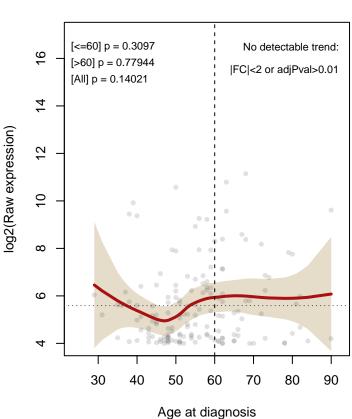


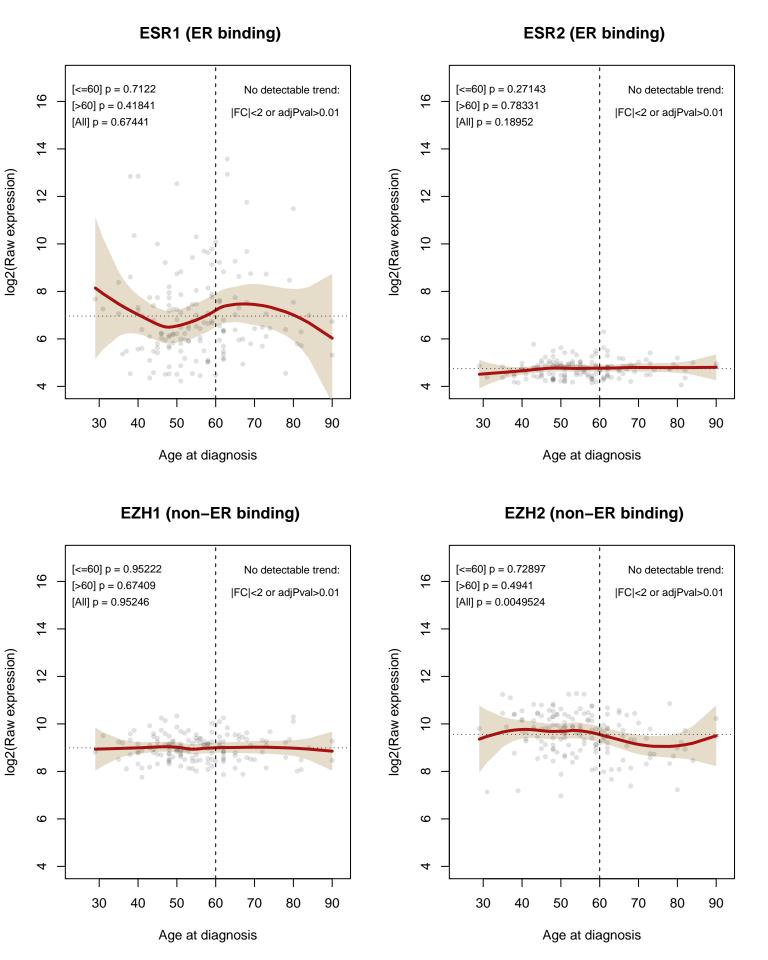


ERBB3 (non-ER binding)

ERBB4 (ER binding)







FOS (non-ER binding) FOSL1 (non-ER binding) [<=60] p = 0.86776No detectable trend: [<=60] p = 0.41106No detectable trend: 16 16 [>60] p = 0.78389 [>60] p = 0.32873 |FC|<2 or adjPval>0.01 [All] p = 0.70653[All] p = 0.239554 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 **FOXA1 (ER binding)** [<=60] p = 0.28382No detectable trend: [<=60] p = 0.33112 16 [>60] p = 0.24553

|FC|<2 or adjPval>0.01

[All] p = 0.015147

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ω

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Age at diagnosis

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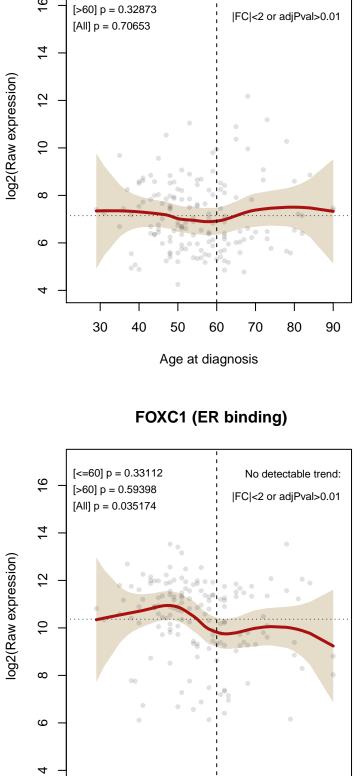
Age at diagnosis

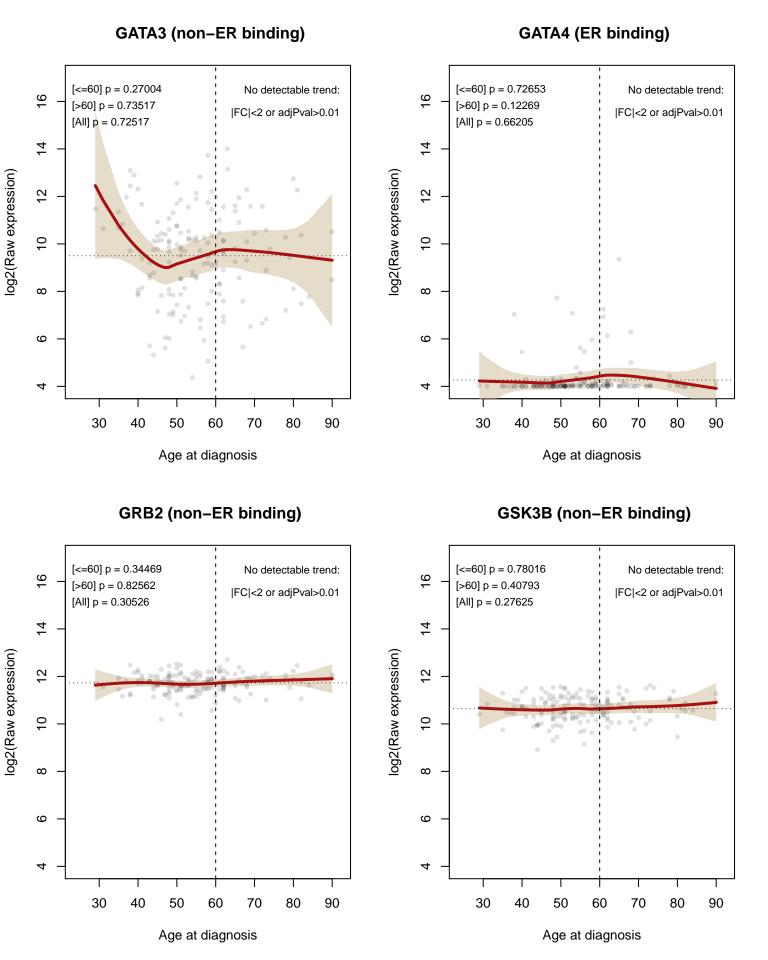
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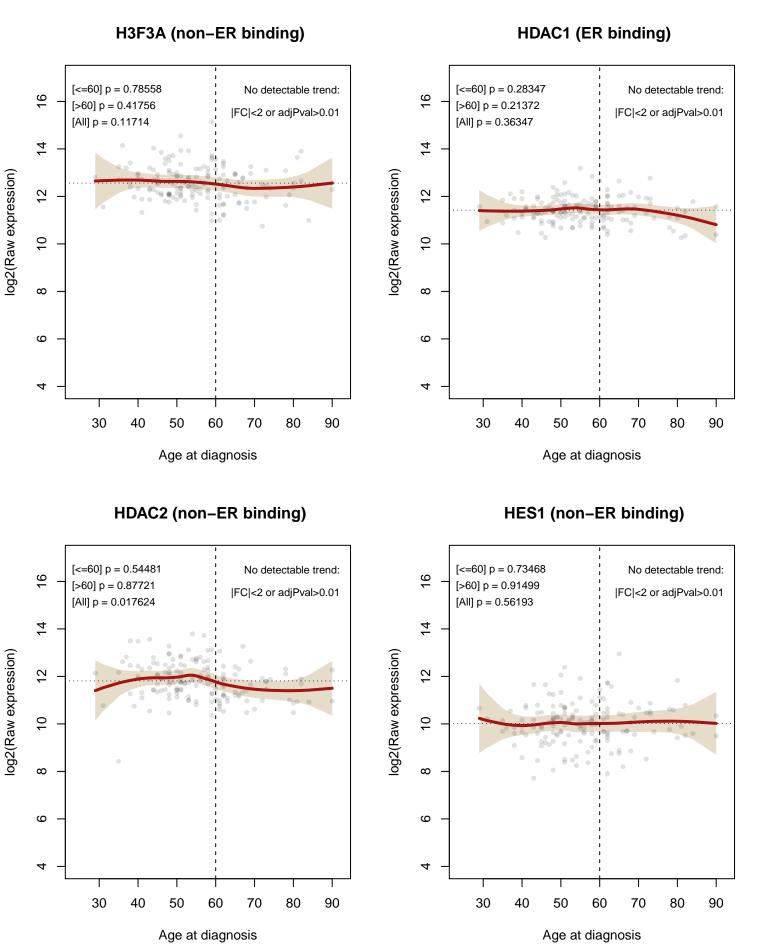
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log2(Raw expression)

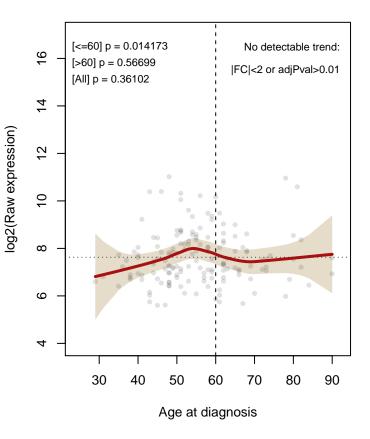


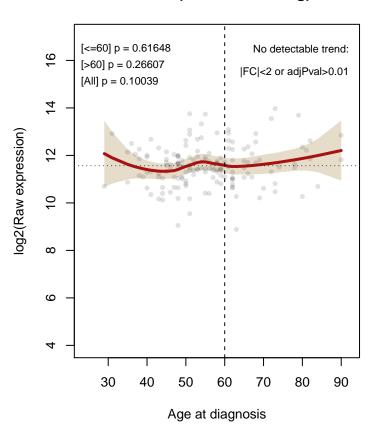






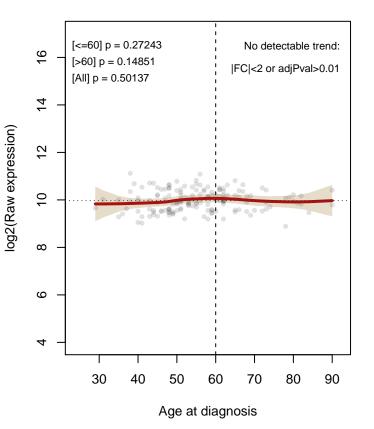
HIF1A (non-ER binding)

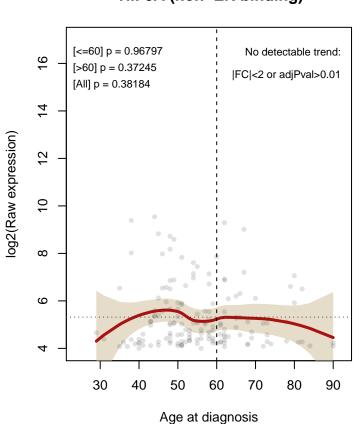




HIF1AN (non-ER binding)

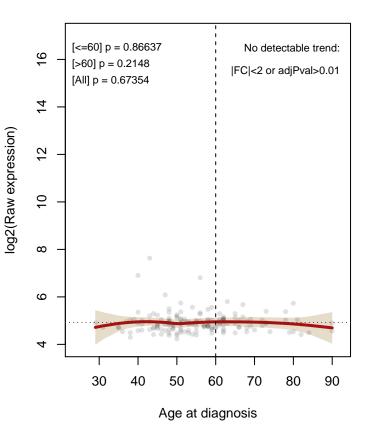
HIF3A (non-ER binding)

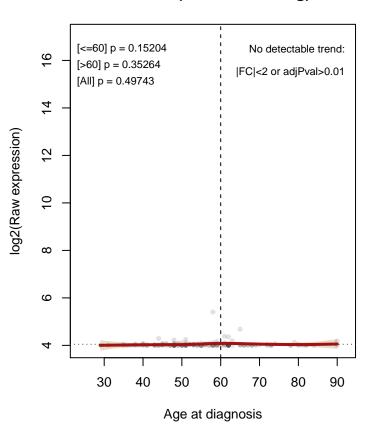




HNF1A (non-ER binding)

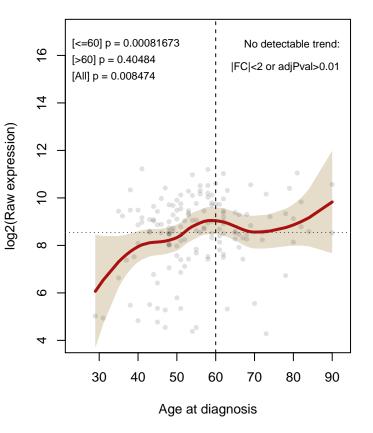
HNF1B (non-ER binding)

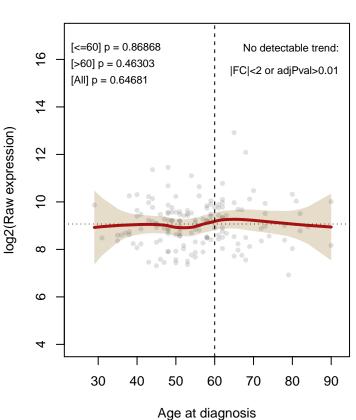




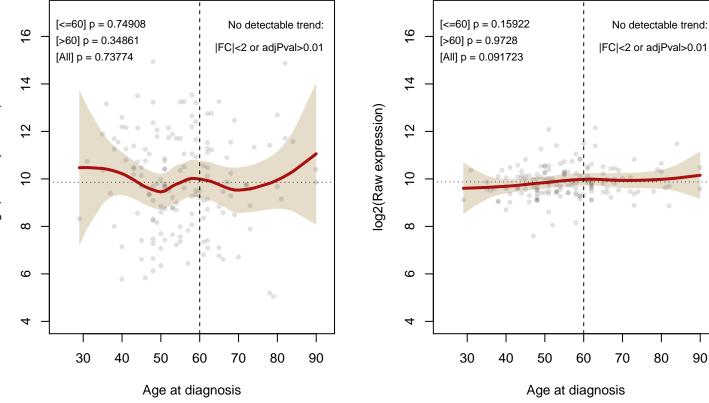
HOXC10 (non-ER binding)

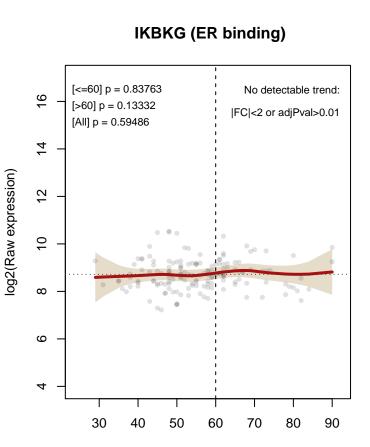
HRAS (non-ER binding)



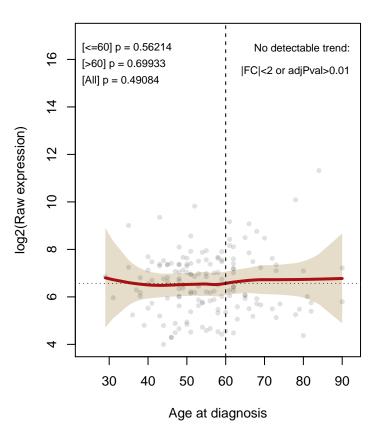


HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.74903No detectable trend: [<=60] p = 0.25606No detectable trend: 16 16 [>60] p = 0.92376 [>60] p = 0.98345 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.016983[All] p = 0.625094 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.74908No detectable trend: [<=60] p = 0.15922No detectable trend: 16 16 [>60] p = 0.34861 [>60] p = 0.9728 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.091723[All] p = 0.737744 4 log2(Raw expression) 12 12



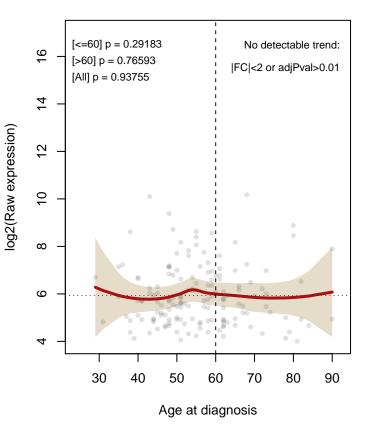


IL2RA (non-ER binding)

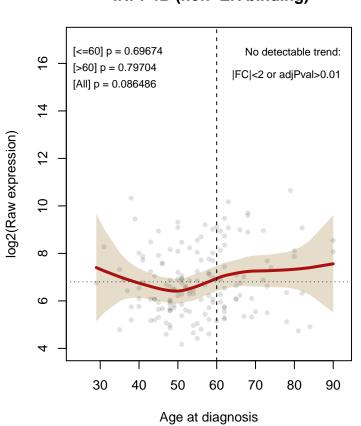


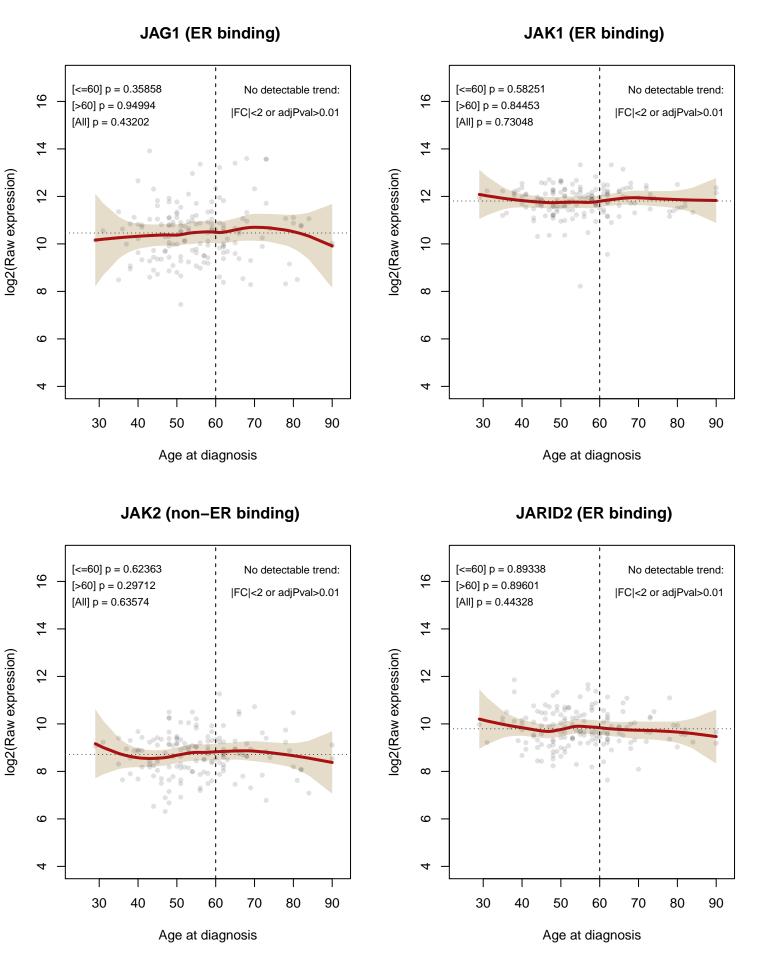
IL6 (non-ER binding)

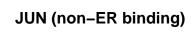
Age at diagnosis



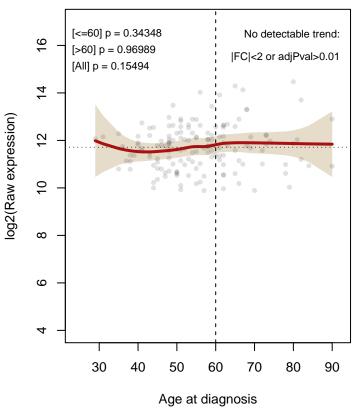
INPP4B (non-ER binding)

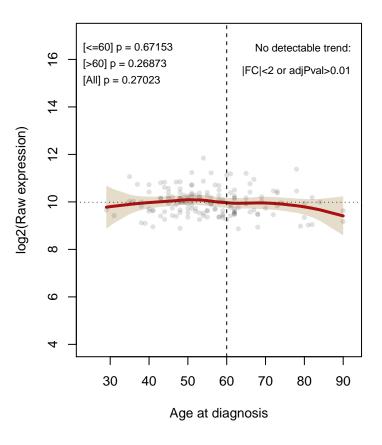






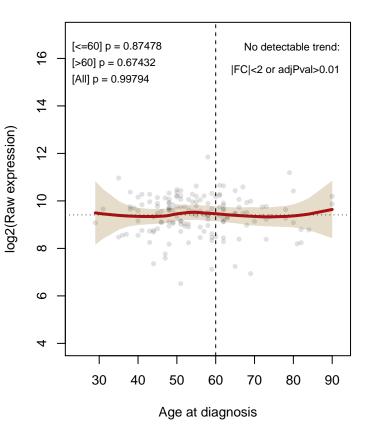
KDM2B (non-ER binding)

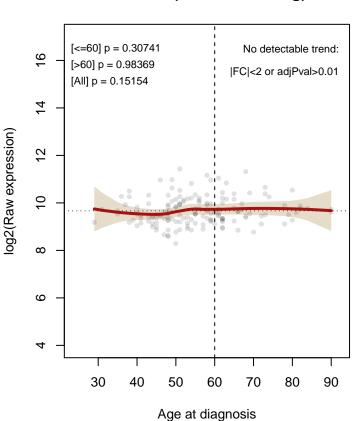




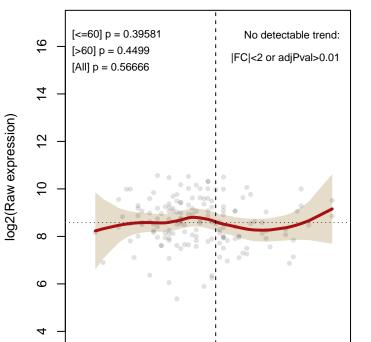
KDM6A (non-ER binding)

KDM6B (non-ER binding)

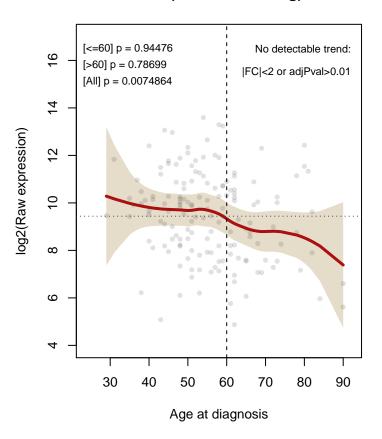






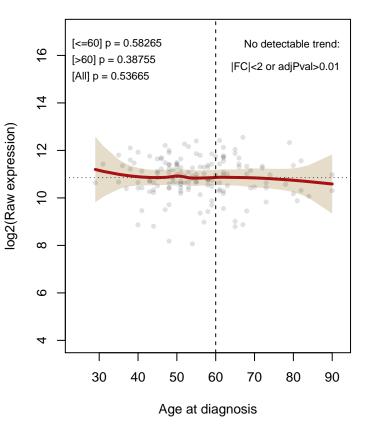


KIT (non-ER binding)

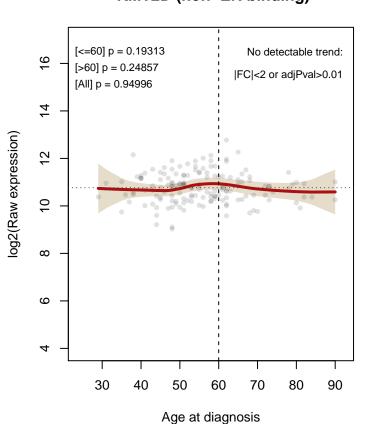


KMT2C (non-ER binding)

Age at diagnosis

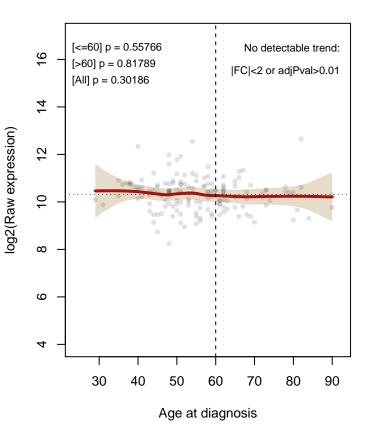


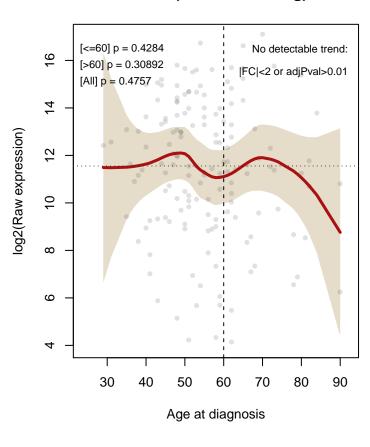
KMT2D (non-ER binding)





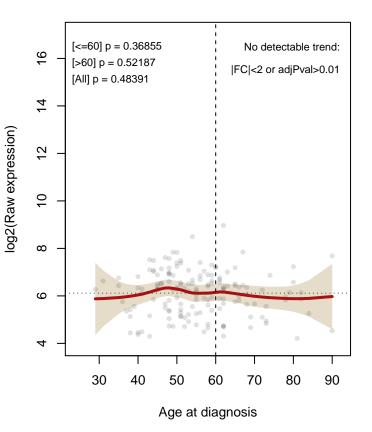
KRT5 (non-ER binding)

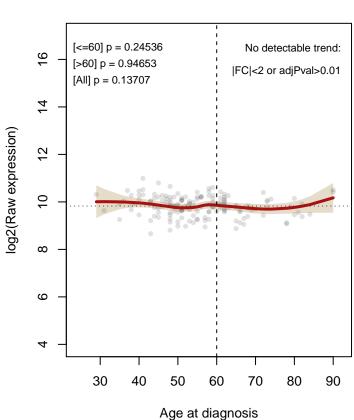




L3MBTL1 (non-ER binding)

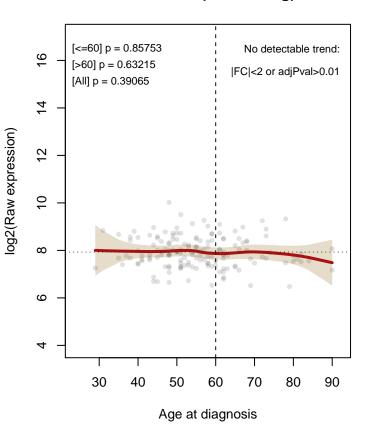
L3MBTL2 (non-ER binding)

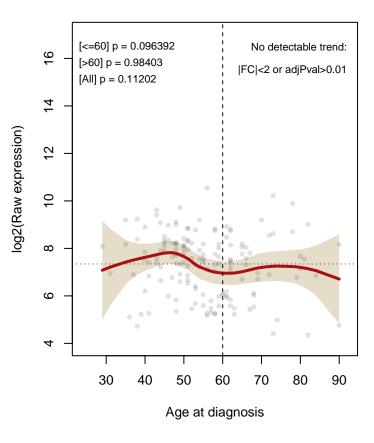




L3MBTL3 (ER binding)

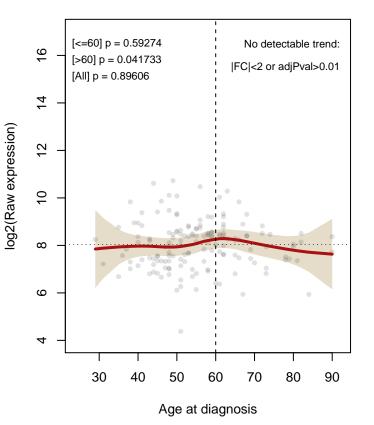
L3MBTL4 (non-ER binding)

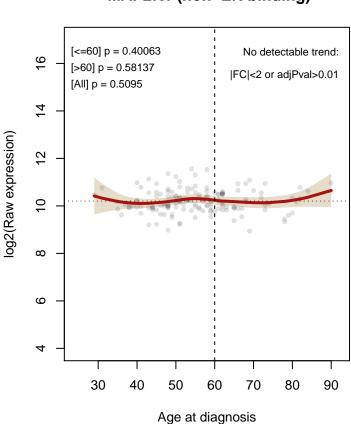




LEF1 (non-ER binding)

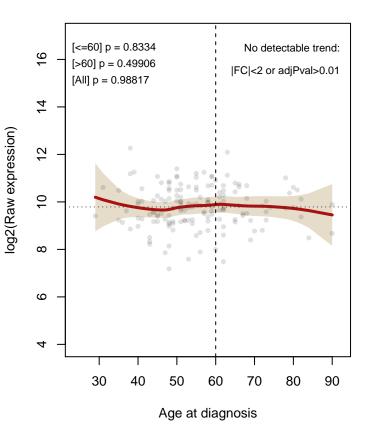
MAP2K1 (non-ER binding)

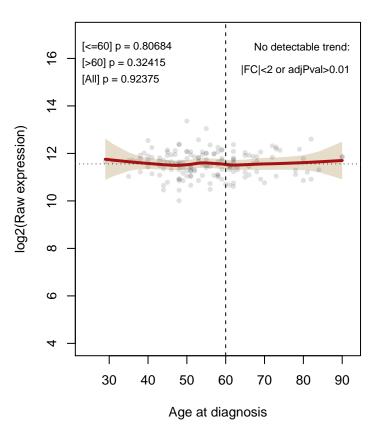






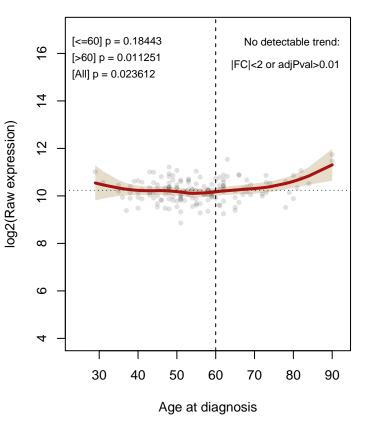
MAPK1 (non-ER binding)

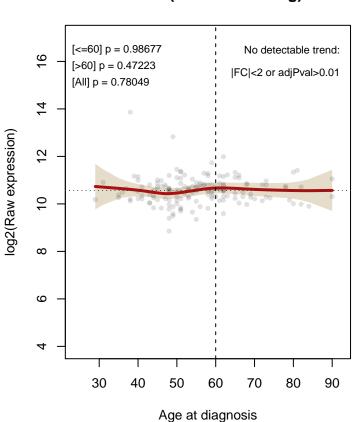


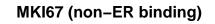


MAPK3 (non-ER binding)

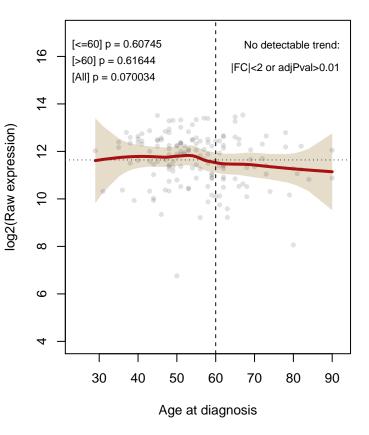
MDM2 (non-ER binding)

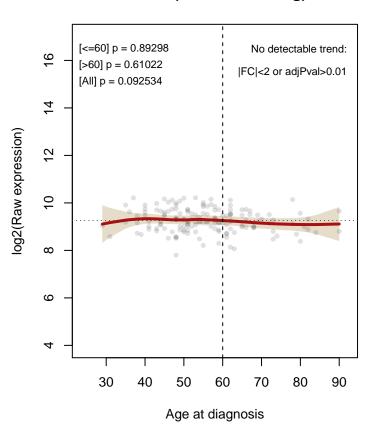






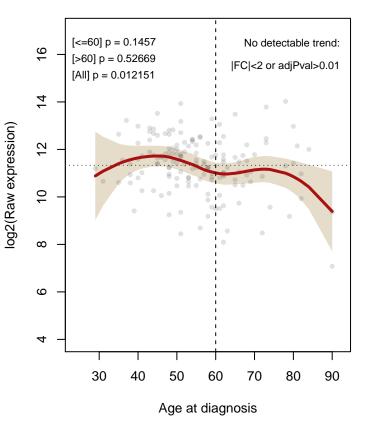
MTF2 (non-ER binding)

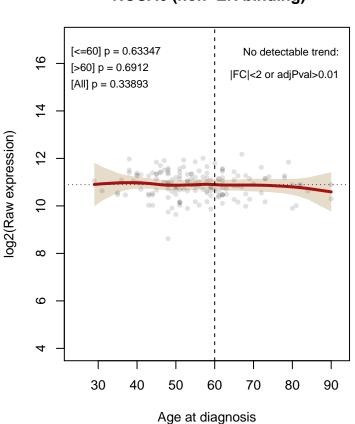




MYC (non-ER binding)

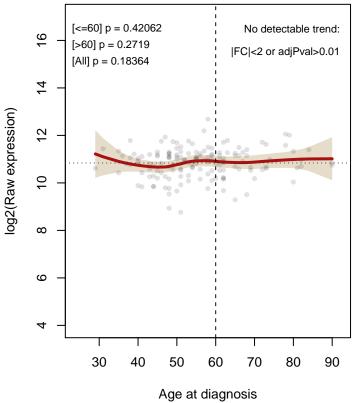
NCOA6 (non-ER binding)

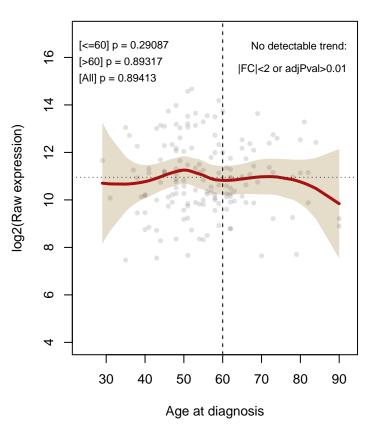




NCOR1 (non-ER binding)

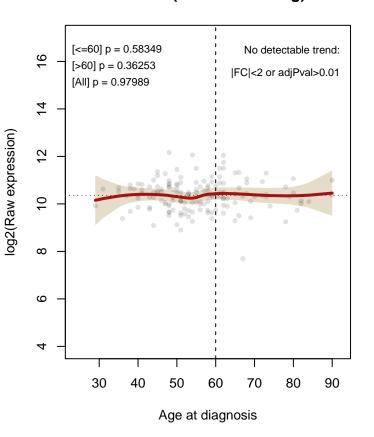
NES (non-ER binding)

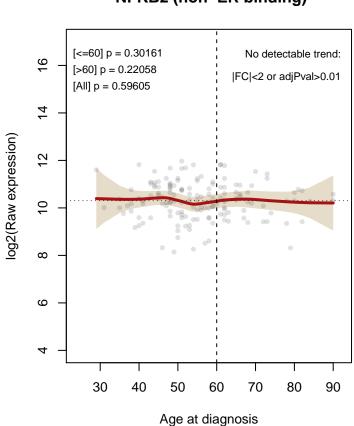




NFKB1 (non-ER binding)

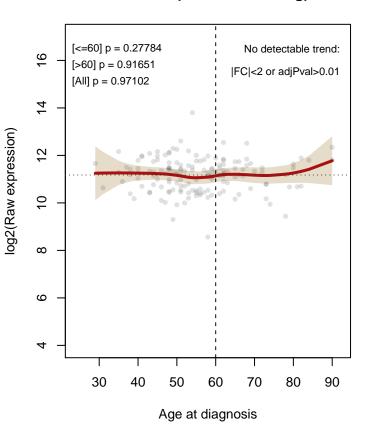
NFKB2 (non-ER binding)

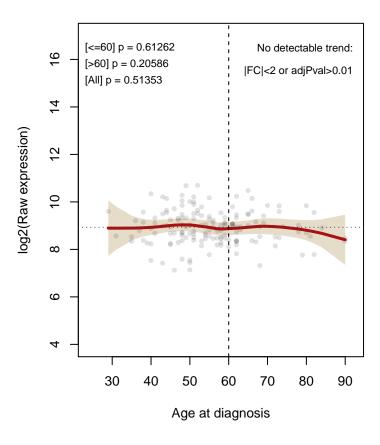




NFKBIA (non-ER binding)

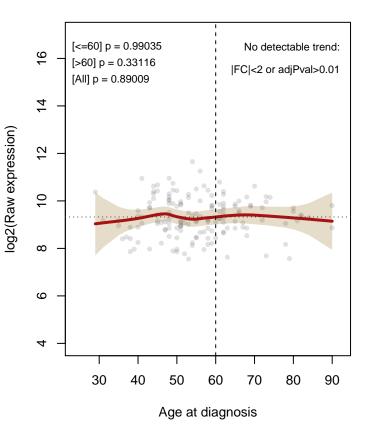
NFKBIB (non-ER binding)

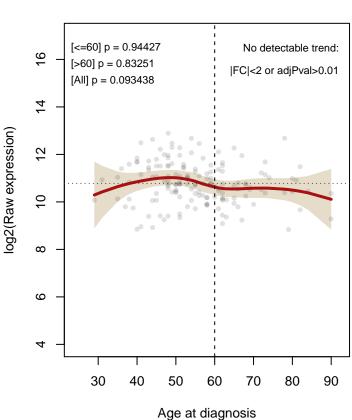




NFKBIE (non-ER binding)

NOTCH1 (non-ER binding)





NOTCH2 (non-ER binding)

[<=60] p = 0.50562 No detectable trend:





ω 9

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log2(Raw expression)

12

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Age at diagnosis

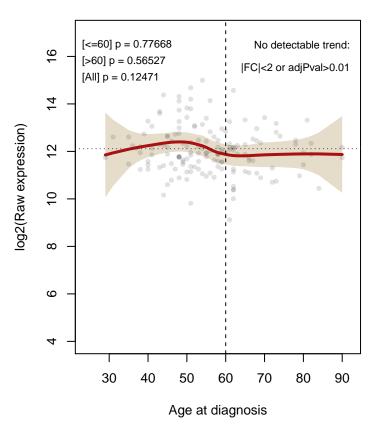
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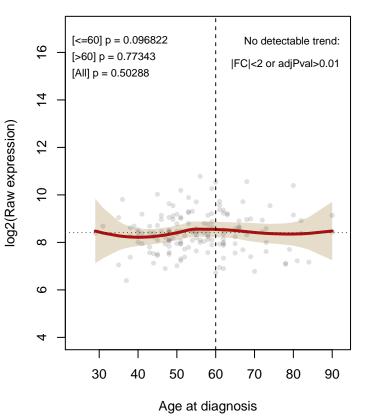
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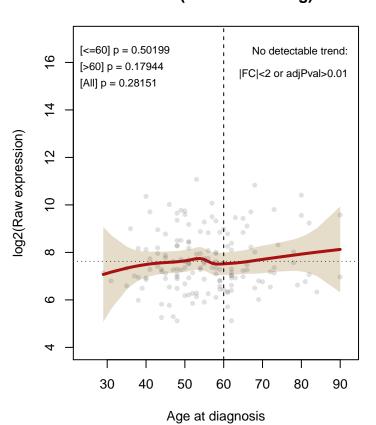
NOTCH3 (non-ER binding)

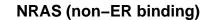


NOTCH4 (non-ER binding)

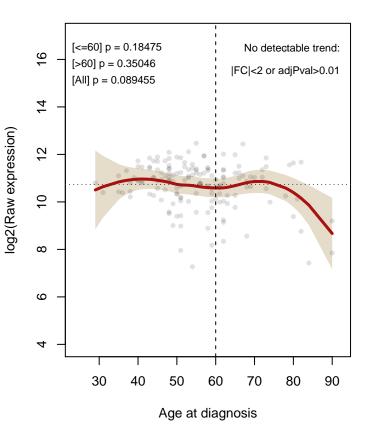


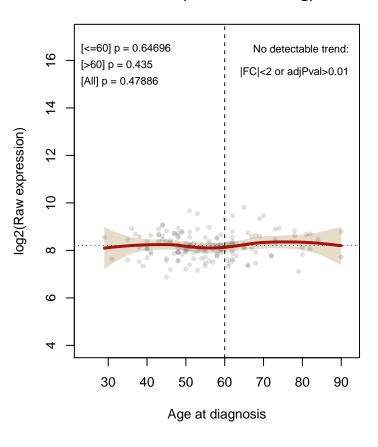
NR4A2 (non-ER binding)





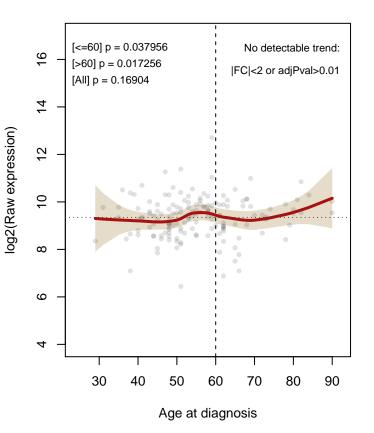
PCGF1 (non-ER binding)

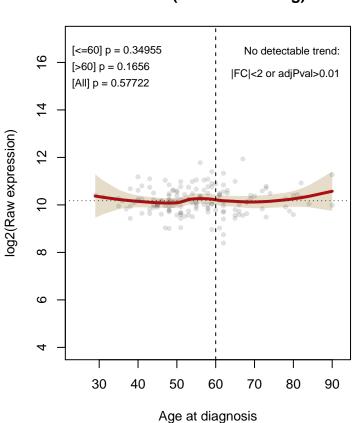


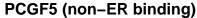


PCGF2 (non-ER binding)

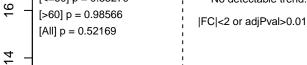
PCGF3 (non-ER binding)

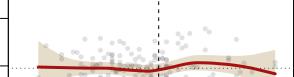














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log2(Raw expression)

12

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ω

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Age at diagnosis

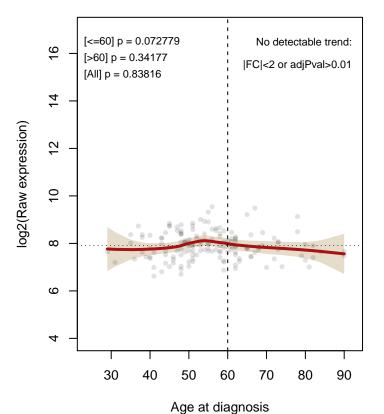
60

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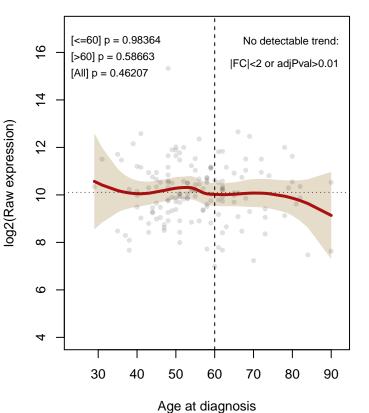
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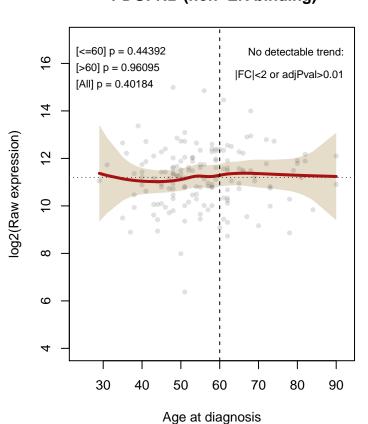
PCGF6 (non-ER binding)



PDGFRA (non-ER binding)



PDGFRB (non-ER binding)



PDPK1 (non-ER binding) [<=60] p = 0.45983No detectable trend: 16 [>60] p = 0.69863|FC|<2 or adjPval>0.01 [AII] p = 0.150074 log2(Raw expression) 12 19

ω

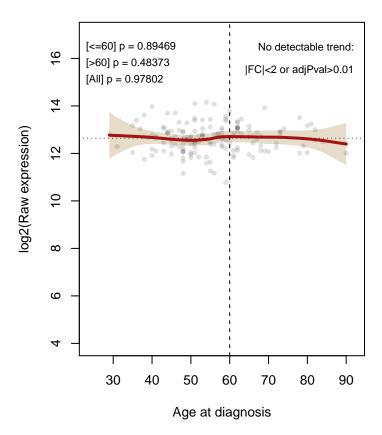
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PEBP1 (non-ER binding)



PELP1 (non-ER binding)

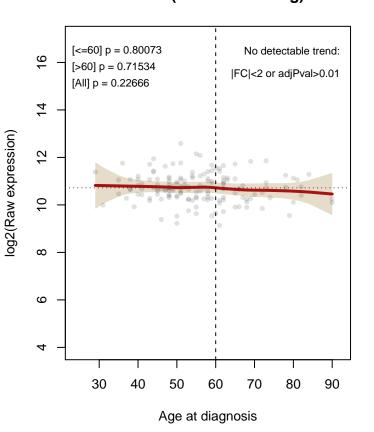
Age at diagnosis

60

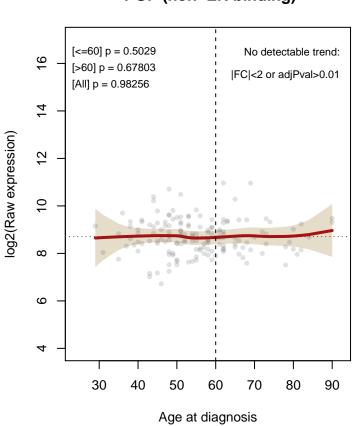
70

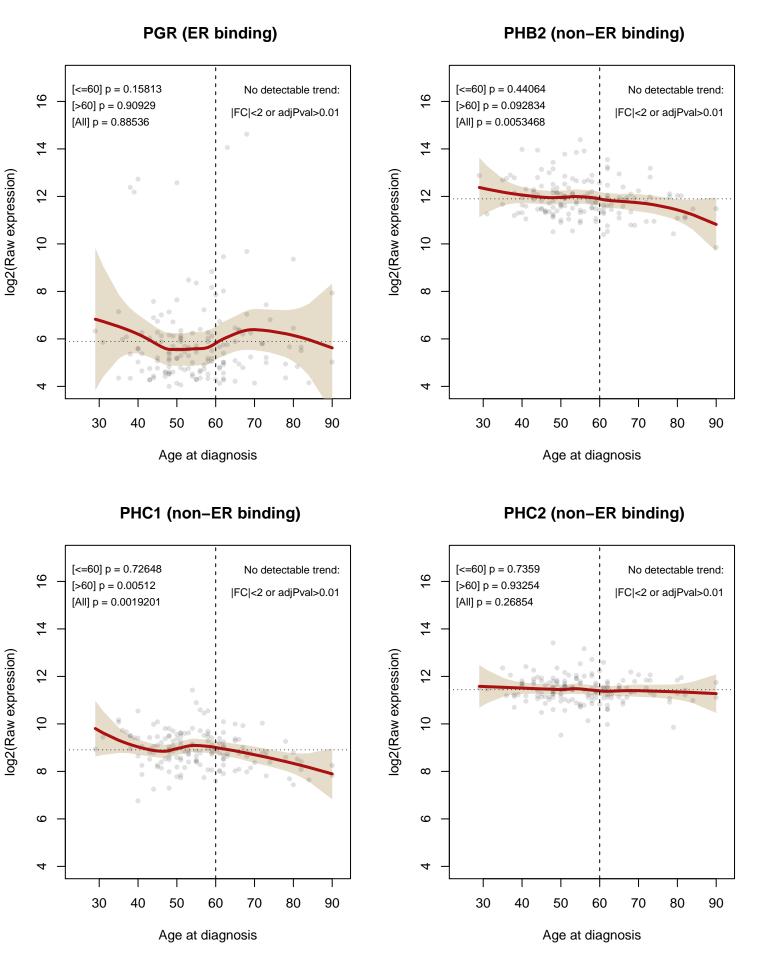
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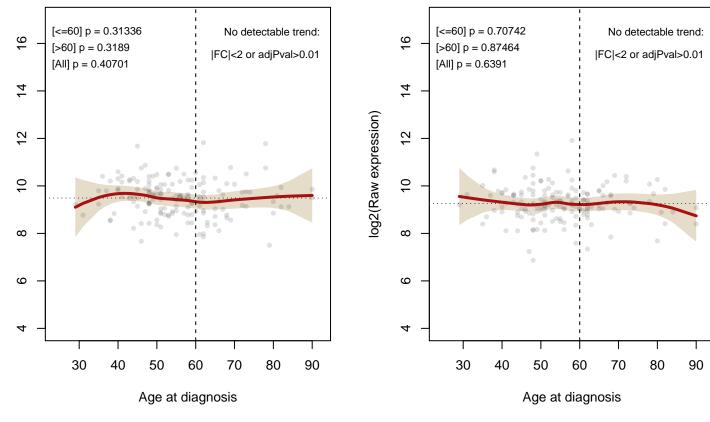


PGP (non-ER binding)



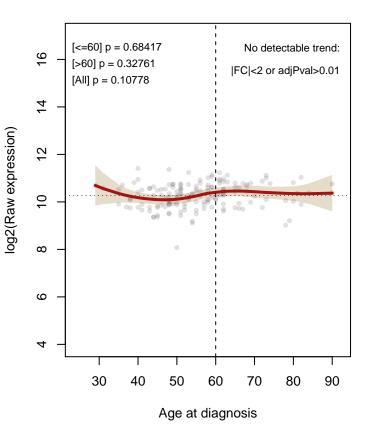


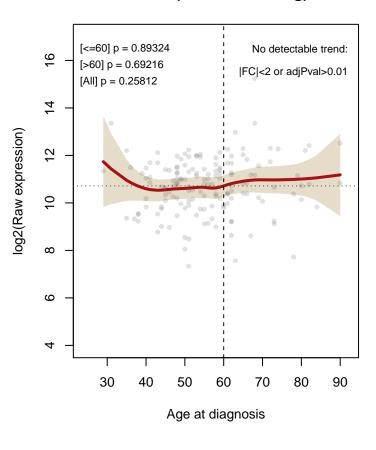
PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.50389No detectable trend: [<=60] p = 0.022557No detectable trend: 16 16 [>60] p = 0.59059 [>60] p = 0.9634|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.85159[All] p = 0.0237374 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis PHF19 (non-ER binding) PIK3CA (non-ER binding) [<=60] p = 0.31336No detectable trend: [<=60] p = 0.70742No detectable trend: 16 16 [>60] p = 0.87464[>60] p = 0.3189 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.40701[All] p = 0.63914 4 log2(Raw expression) 12 12





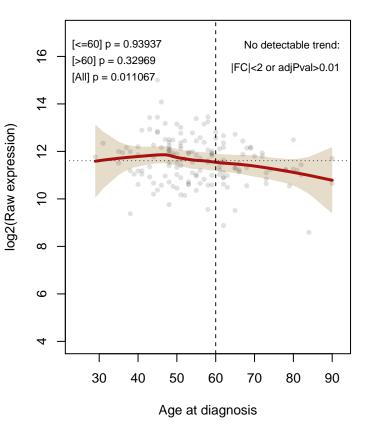
PLAU (non-ER binding)

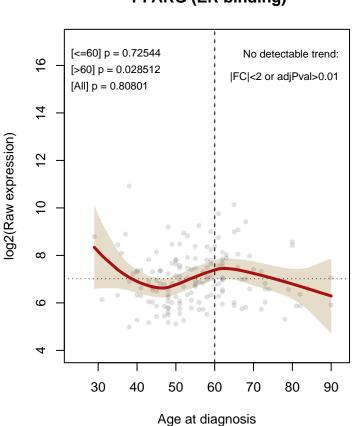




PODXL (non-ER binding)

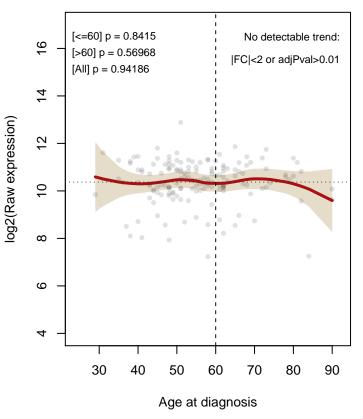
PPARG (ER binding)

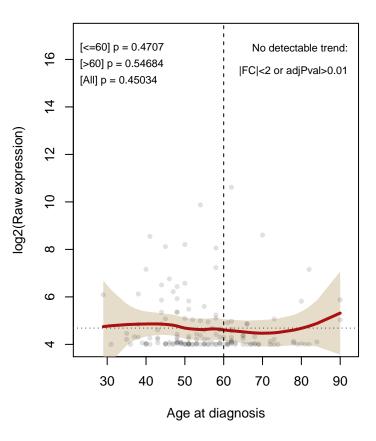






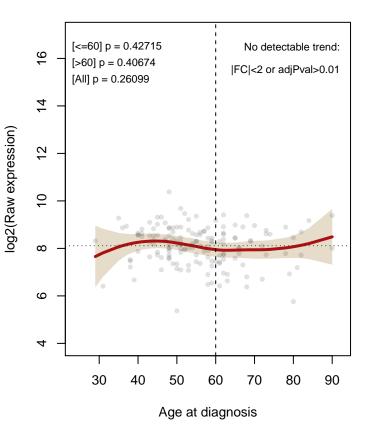
PYDC1 (non-ER binding)

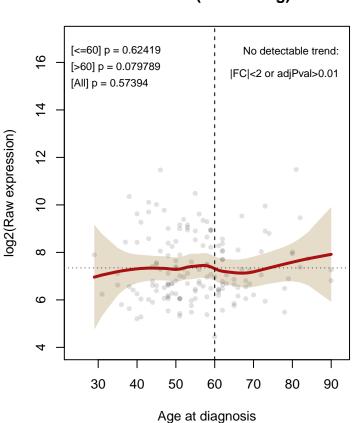




RAD51 (non-ER binding)

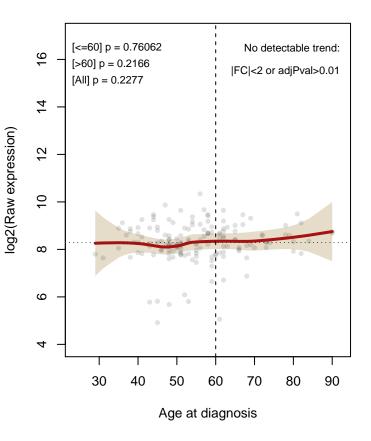
RAD51B (ER binding)

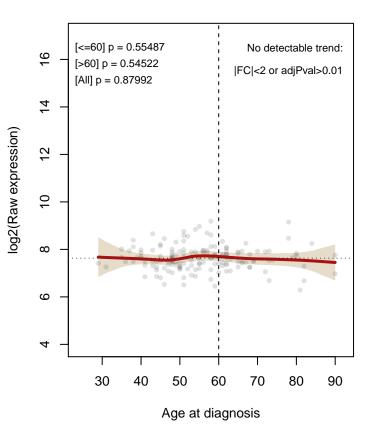




RAD51C (non-ER binding)

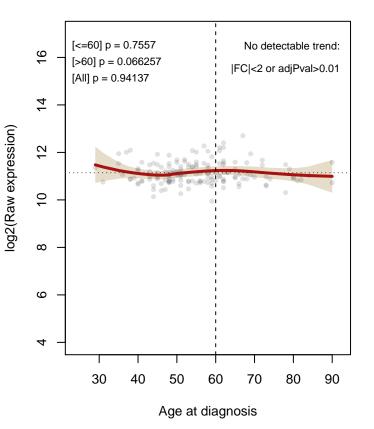
RAD51D (non-ER binding)

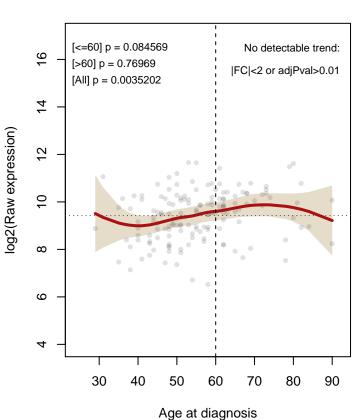




RAF1 (non-ER binding)

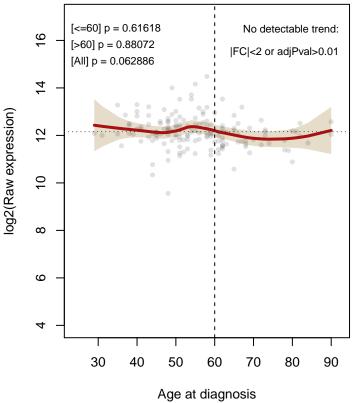
RB1 (non-ER binding)

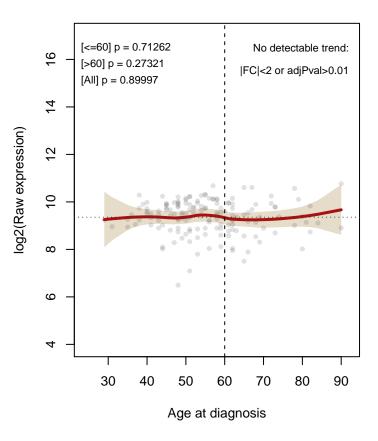






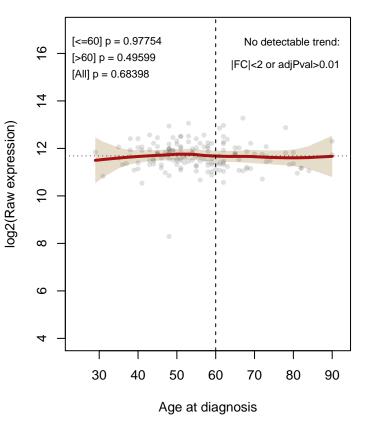
RBBP5 (non-ER binding)

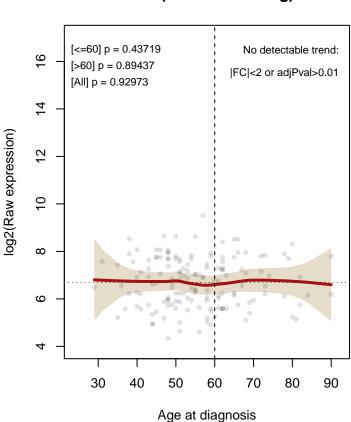


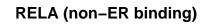


RBBP7 (non-ER binding)

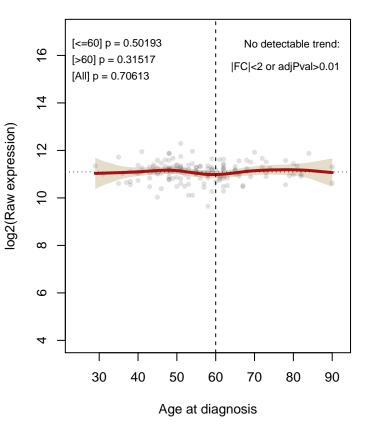
REL (non-ER binding)

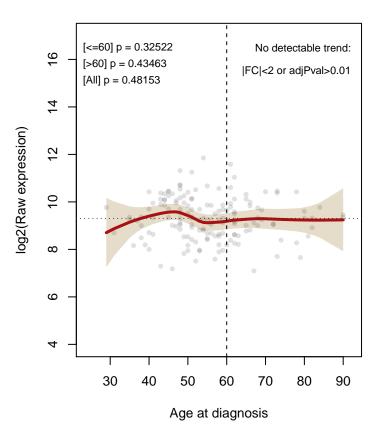






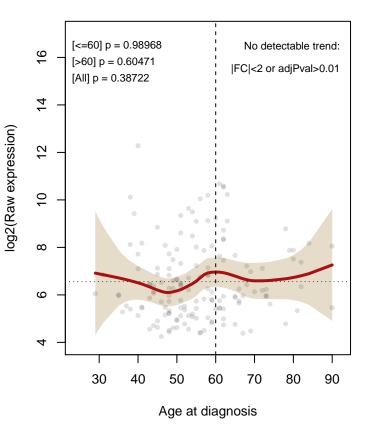
RELB (non-ER binding)

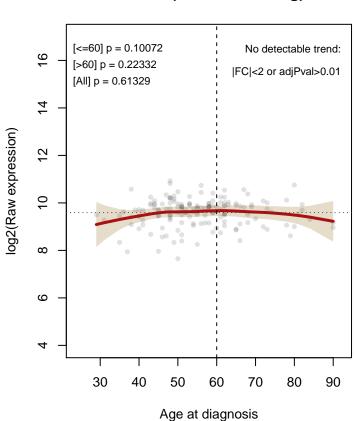


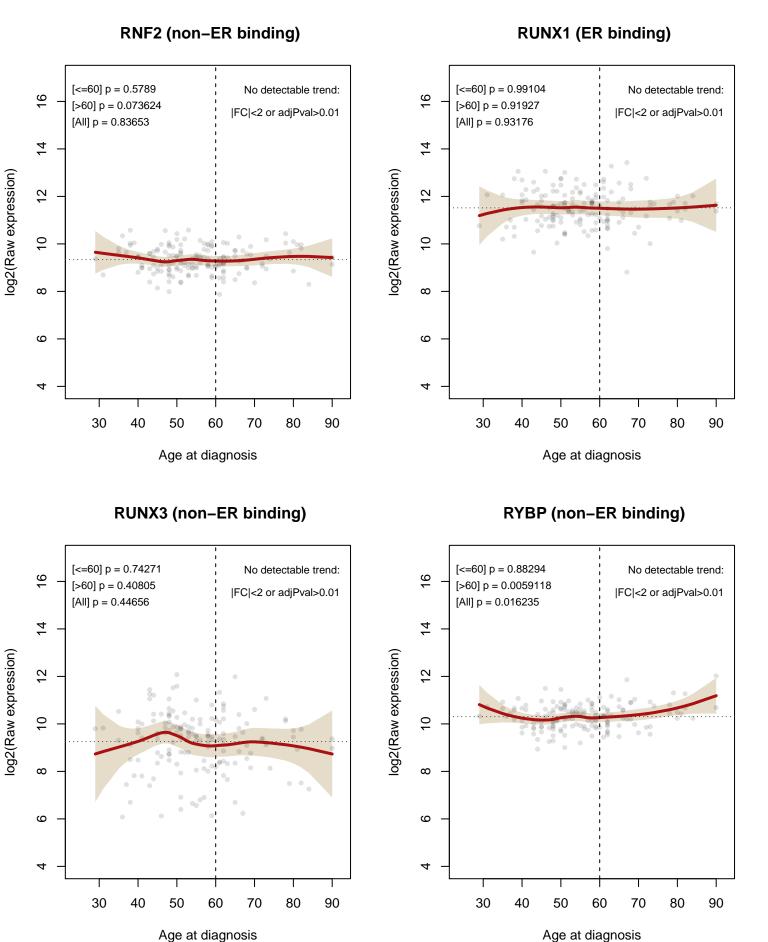


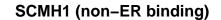
RET (ER binding)

RING1 (non-ER binding)

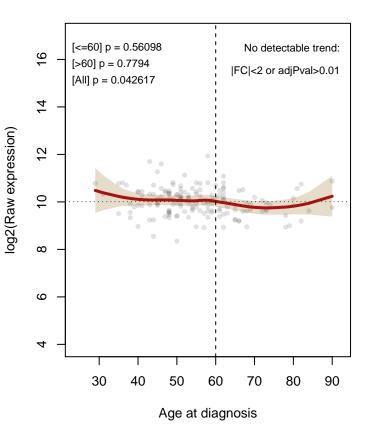


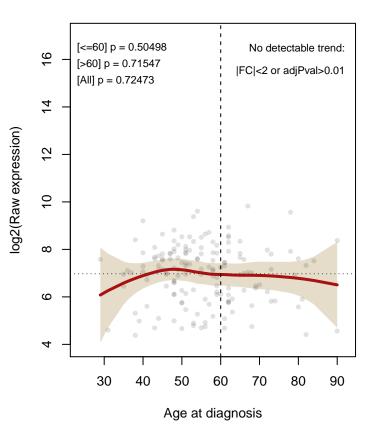






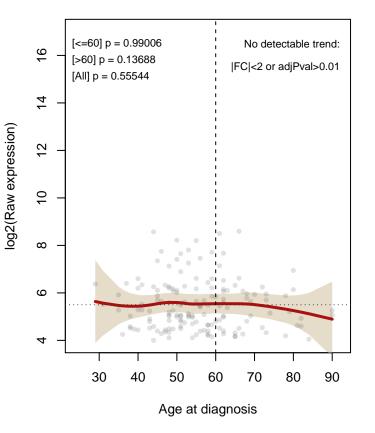
SCML2 (non-ER binding)

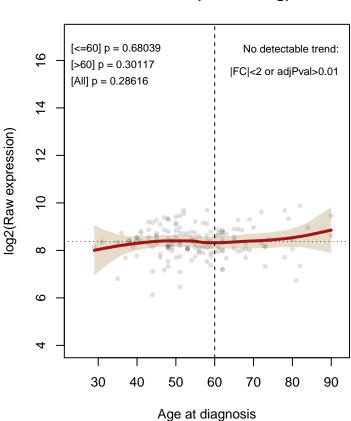




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.74006No detectable trend: [<=60] p = 0.36065No detectable trend: 16 16 [>60] p = 0.87906 [>60] p = 0.070362 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.17073[All] p = 0.47554 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 SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.64867No detectable trend: [<=60] p = 0.30762No detectable trend: 16 16 [>60] p = 0.058307 [>60] p = 0.6413 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.13166[All] p = 0.721024 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

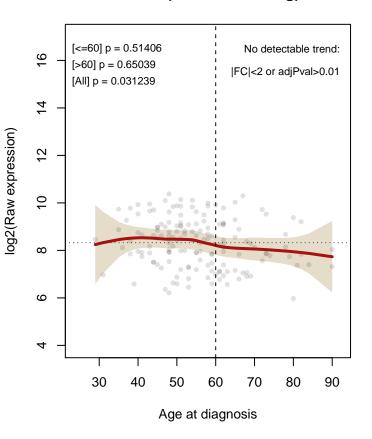
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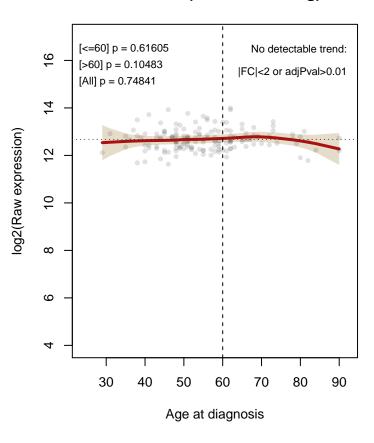
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SKP2 (non-ER binding)

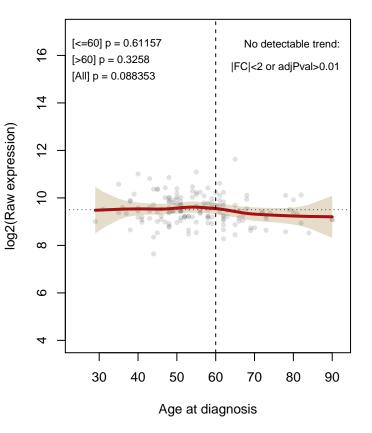
SLC25A3 (non-ER binding)

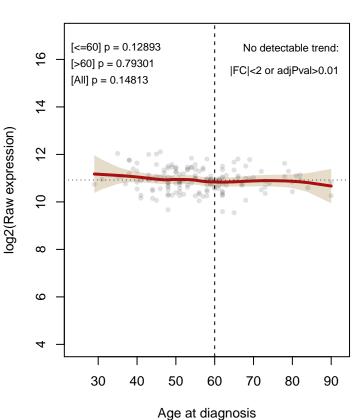




SMAD1 (non-ER binding)

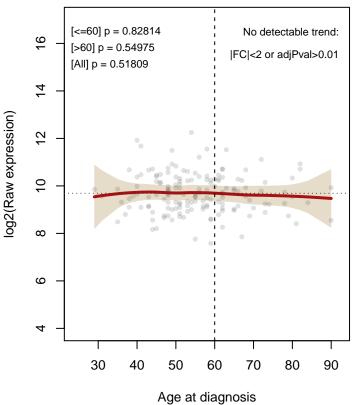
SMAD2 (non-ER binding)

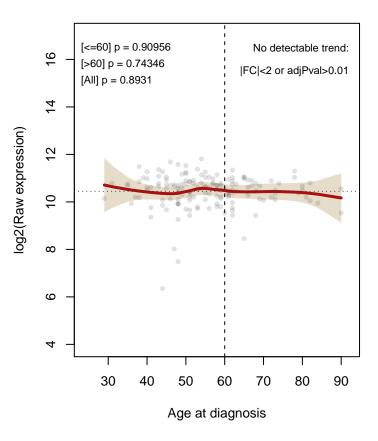




SMAD3 (ER binding)

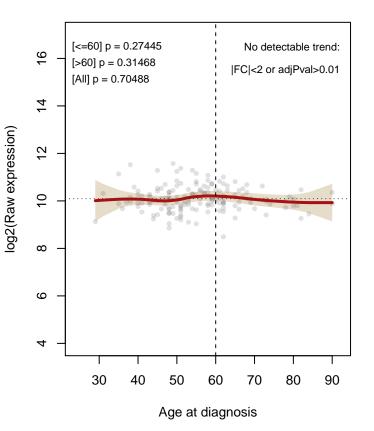
SMAD4 (non-ER binding)

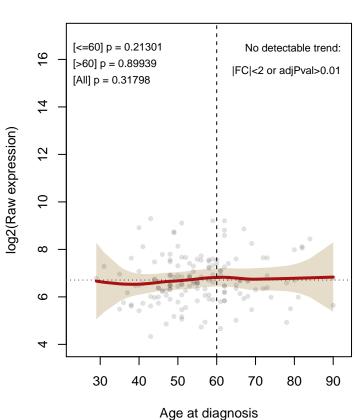




SMAD5 (non-ER binding)

SMAD6 (non-ER binding)





SMAD7 (non-ER binding) [<=60] p = 0.37788No detectable trend: 16 [>60] p = 0.53823 |FC|<2 or adjPval>0.01 [All] p = 0.754914 log2(Raw expression) 12

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ω

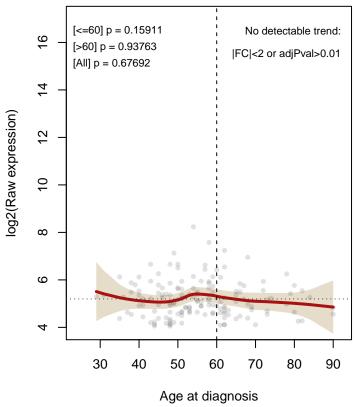
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SMAD9 (non-ER binding)



SOS1 (non-ER binding)

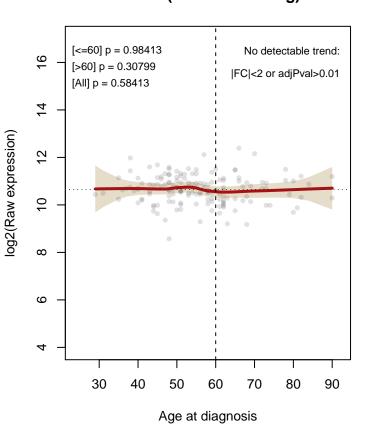
Age at diagnosis

60

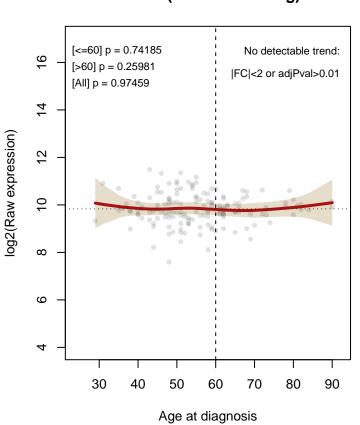
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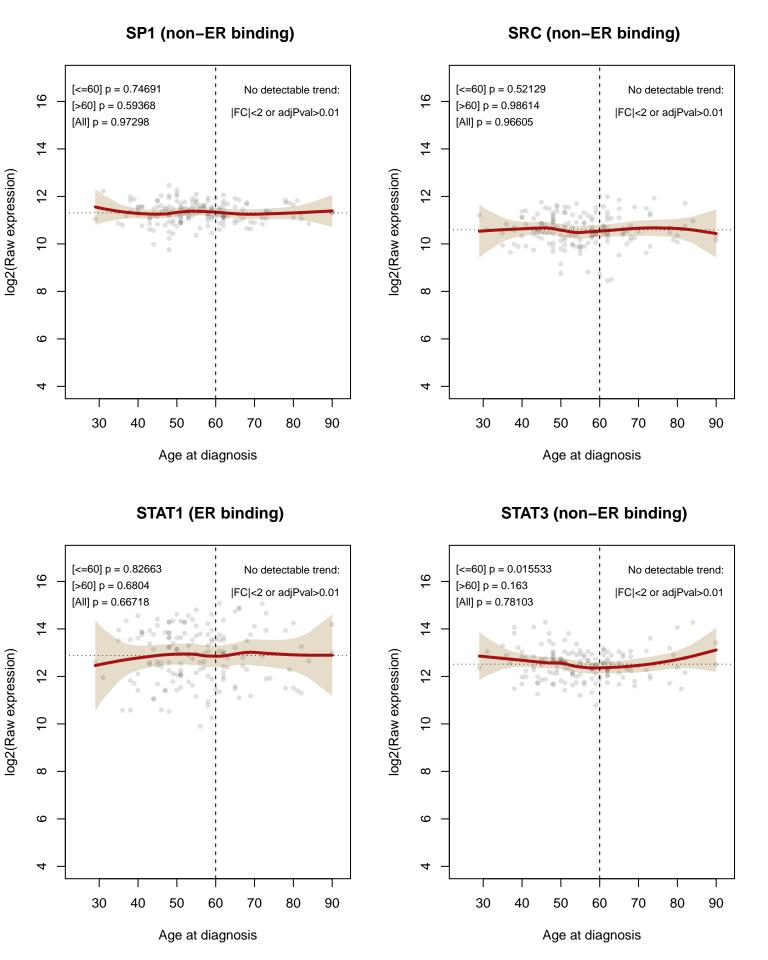
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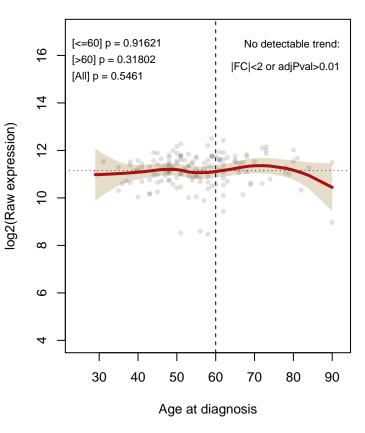
SOS2 (non-ER binding)

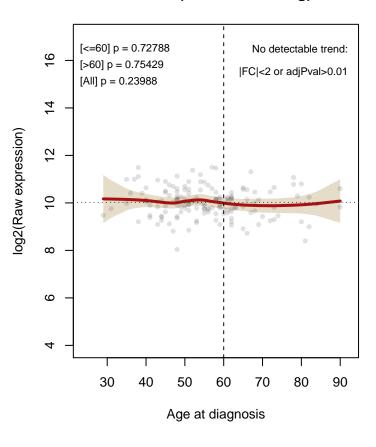






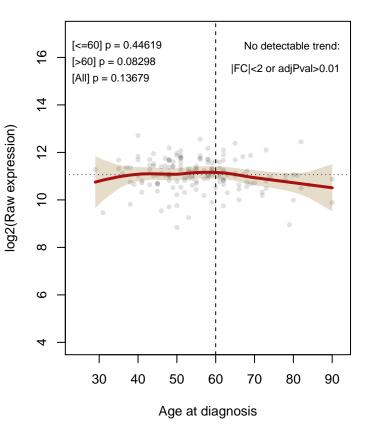
SUZ12 (non-ER binding)

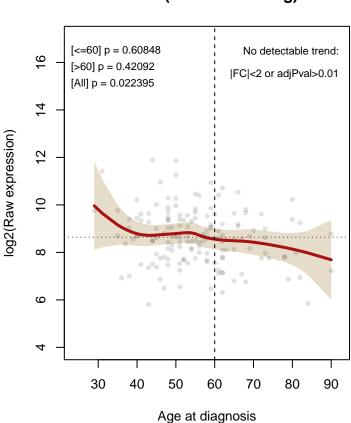




TCF3 (non-ER binding)

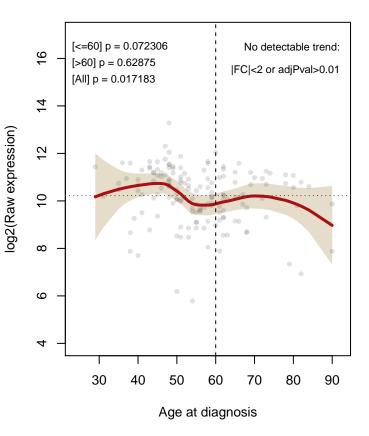
TCF7 (non-ER binding)

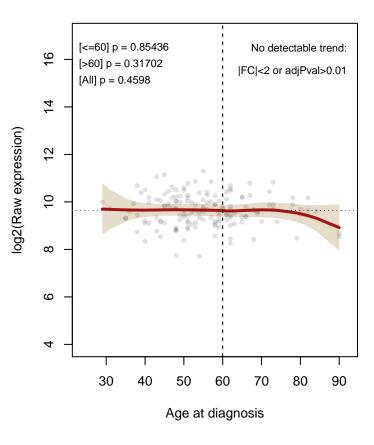






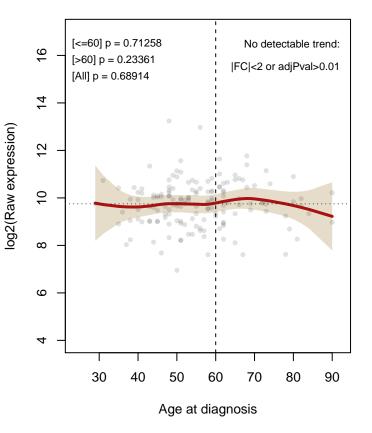
TCF7L2 (non-ER binding)

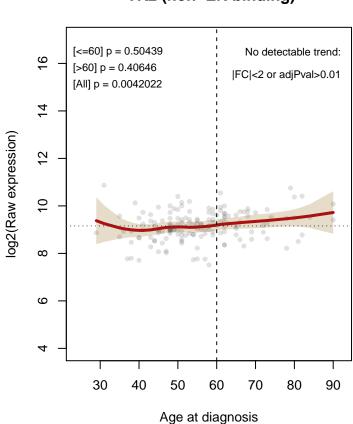


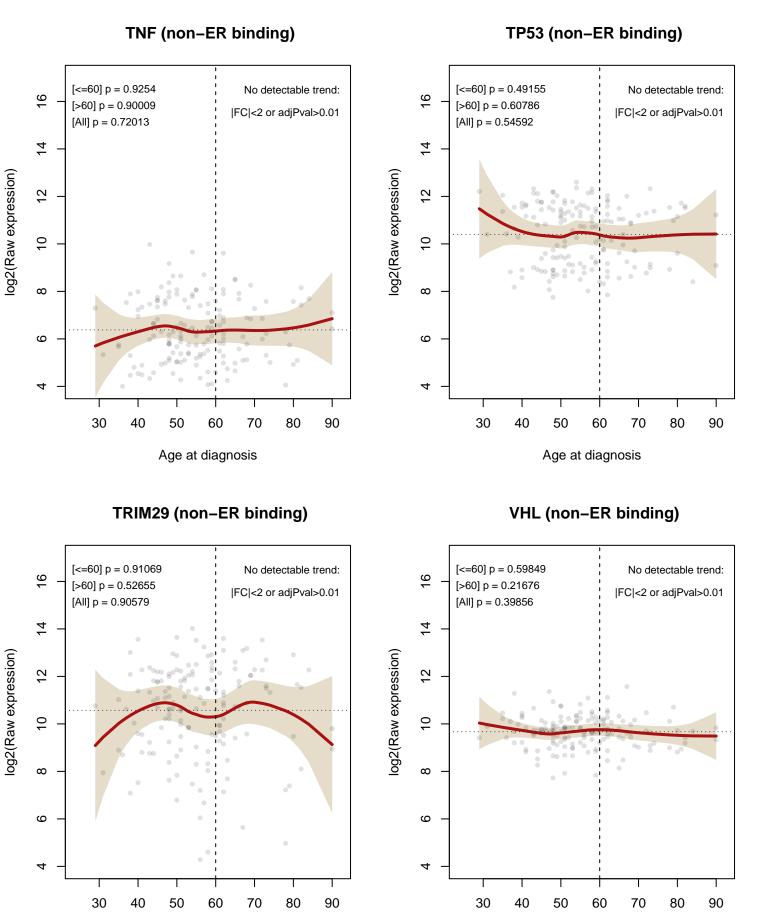


TGFB1 (non-ER binding)

TK2 (non-ER binding)



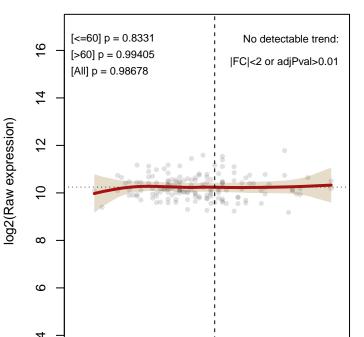




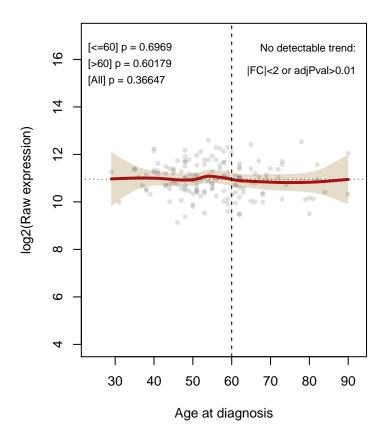
Age at diagnosis

Age at diagnosis



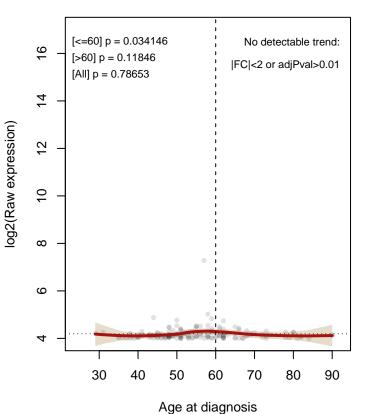


WHSC1 (non-ER binding)

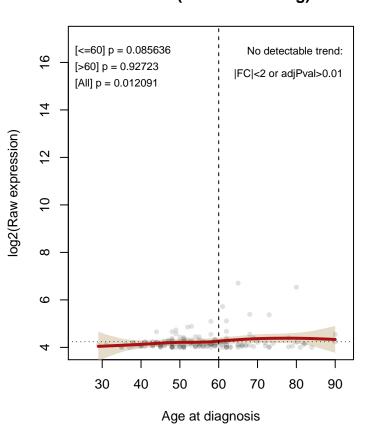


WNT1 (non-ER binding)

Age at diagnosis

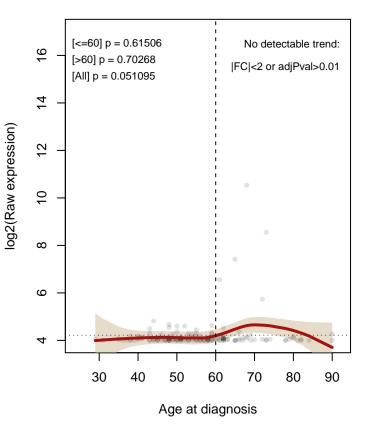


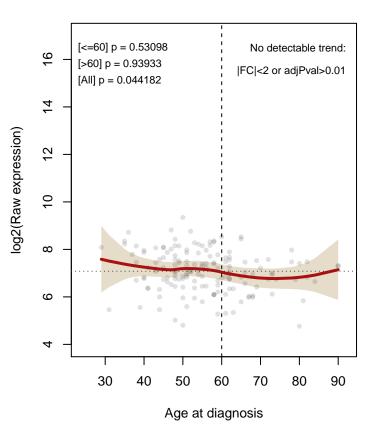
WNT3A (non-ER binding)





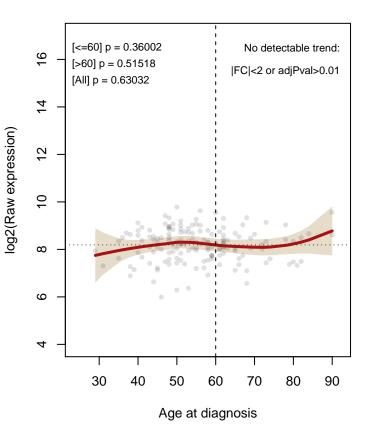
XRCC2 (non-ER binding)

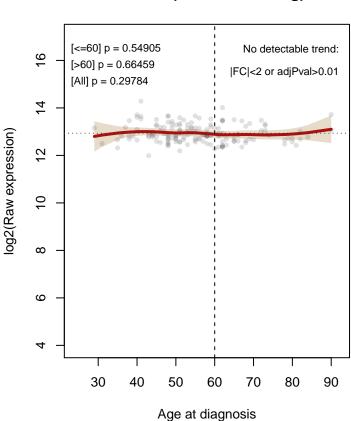




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)





YAF2 (non-ER binding)

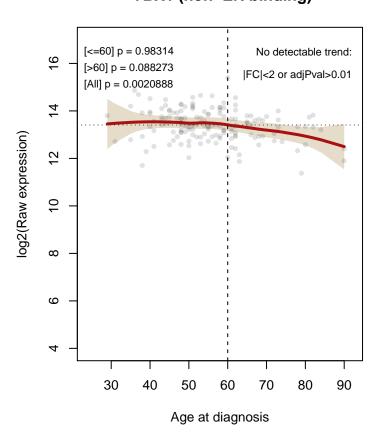
90 - [<=60] p = 0.75105 | No detectable trend: |FC|<2 or adjPval>0.01

30

40

50

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

60

70

80

90

