

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.21325 No detectable trend: [<=60] p = 0.49291No detectable trend: 16 16 [>60] p = 0.87501 [>60] p = 0.13774 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.31398[All] p = 0.118694 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.10275No detectable trend: [<=60] p = 0.66325No detectable trend: 16 16 [>60] p = 0.36718 [>60] p = 0.00012877 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.24535[All] p = 0.239694 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞ 9 9

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Age at diagnosis

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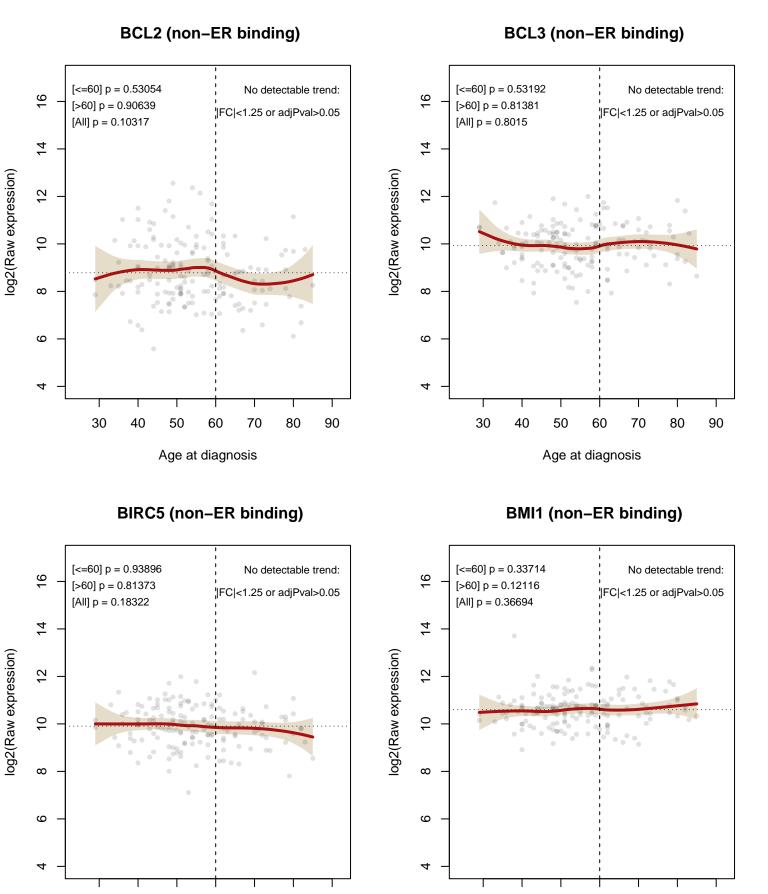
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Age at diagnosis

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Age at diagnosis

Age at diagnosis

BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.85384No detectable trend: [<=60] p = 0.086356No detectable trend: 16 16 [>60] p = 0.1325 [>60] p = 0.077542 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.62567[All] p = 0.0307534 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.29476No detectable trend: [<=60] p = 0.28862No detectable trend: 16 16 [>60] p = 0.48802 [>60] p = 0.38251 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.099216[AII] p = 0.89674 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞

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Age at diagnosis

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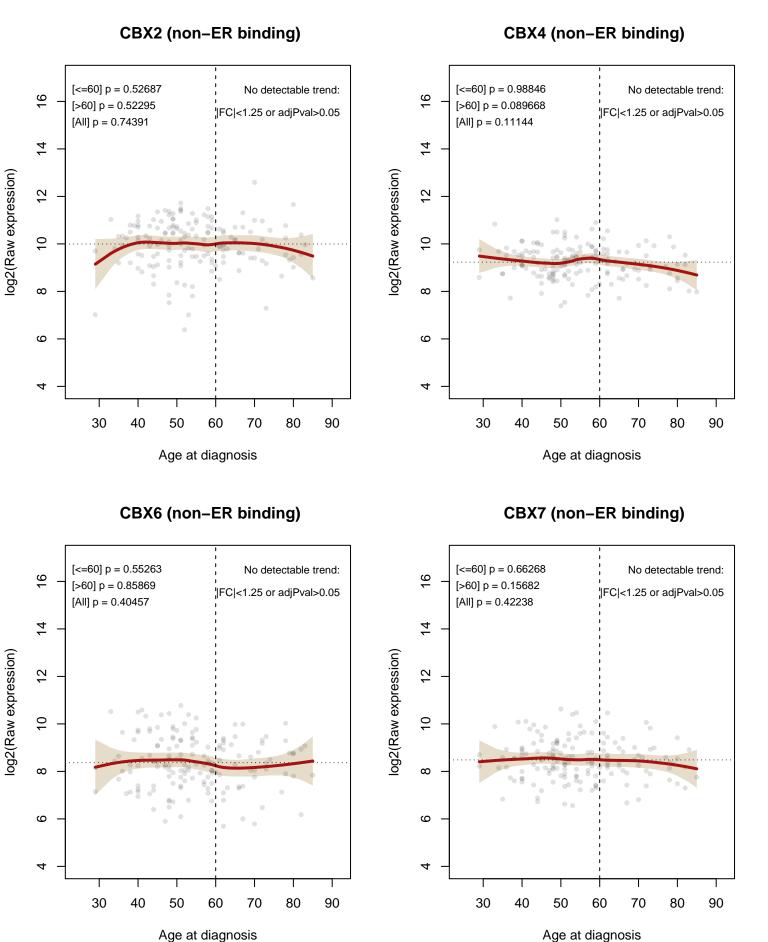
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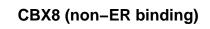
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Age at diagnosis

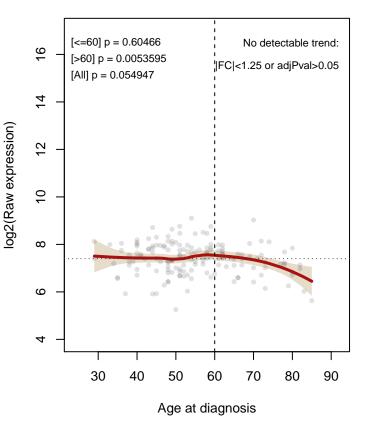
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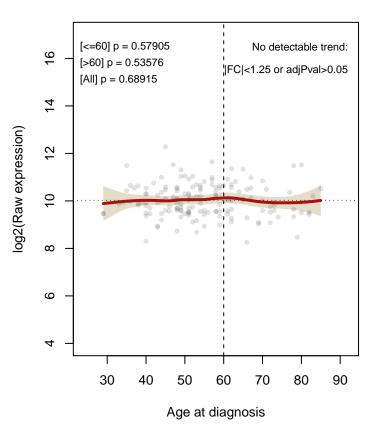
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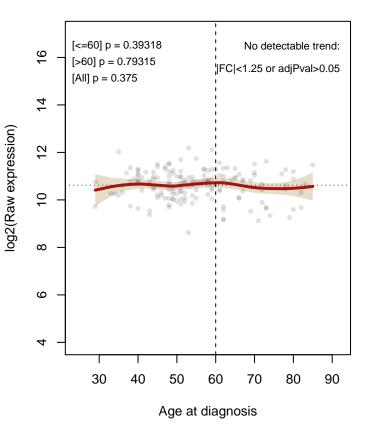
CCNA2 (non-ER binding)

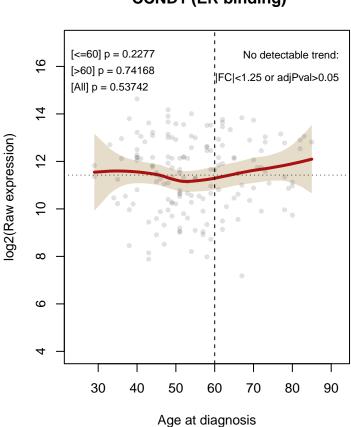




CCNB1 (non-ER binding)

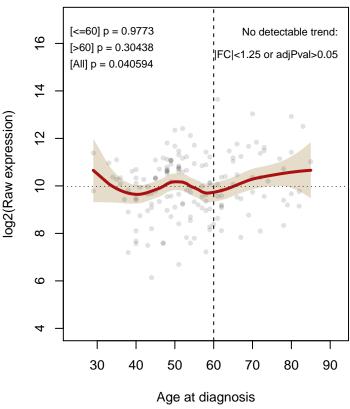
CCND1 (ER binding)





CCNE1 (non-ER binding) [<=60] p = 0.7692No detectable trend: 16 16 [>60] p = 0.75526 |FC|<1.25 or adjPval>0.05 [All] p = 0.737684 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9

CD163 (non-ER binding)



CD44 (non-ER binding)

Age at diagnosis

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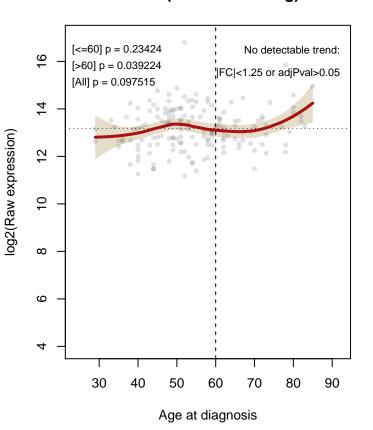
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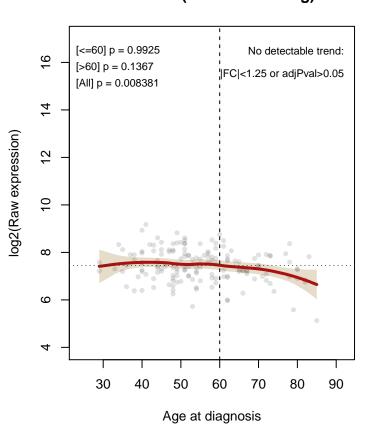
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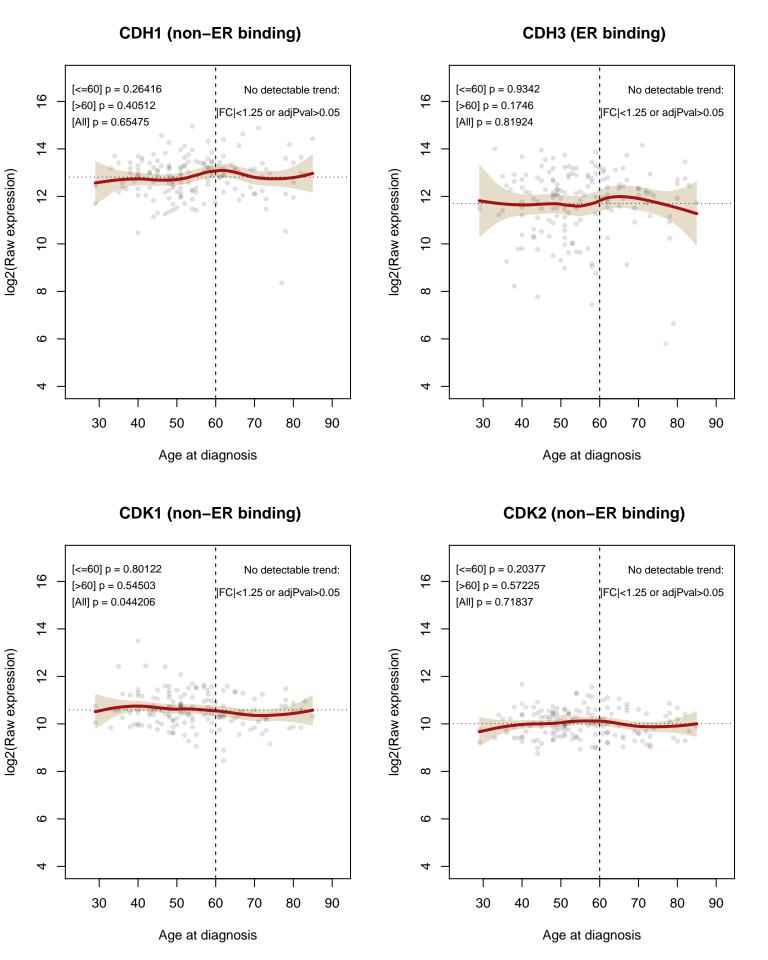
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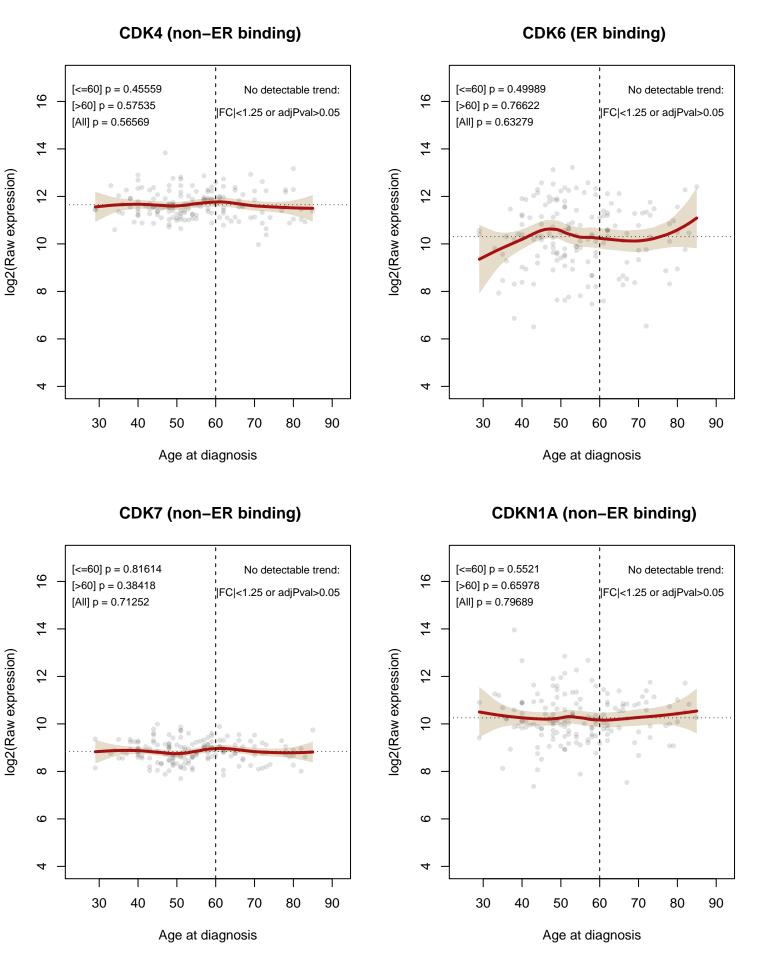
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CDC25C (non-ER binding)







CDKN1B (non-ER binding)

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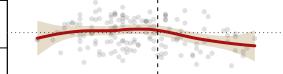
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log2(Raw expression)





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Age at diagnosis

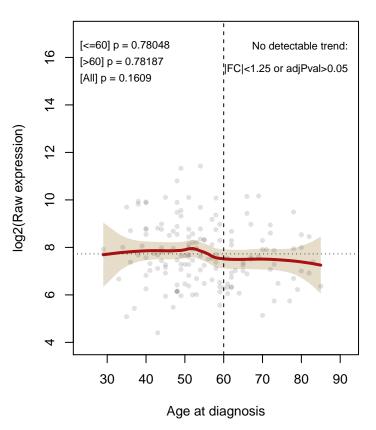
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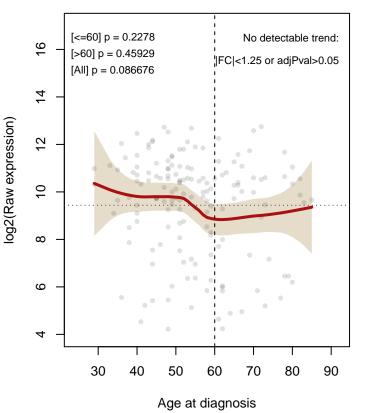
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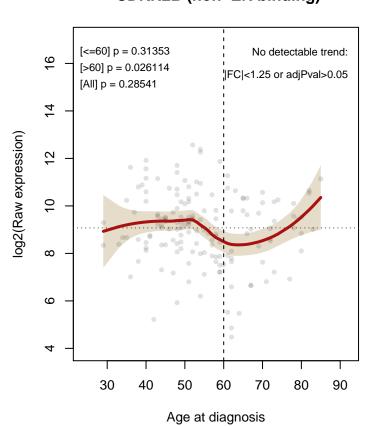
CDKN1C (non-ER binding)



CDKN2A (non-ER binding)

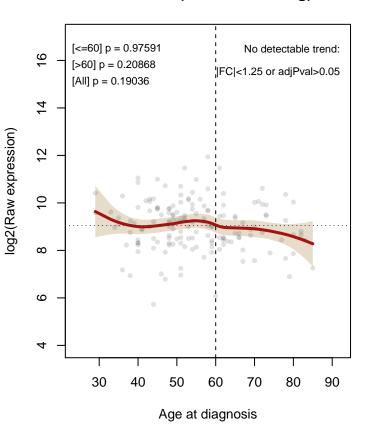


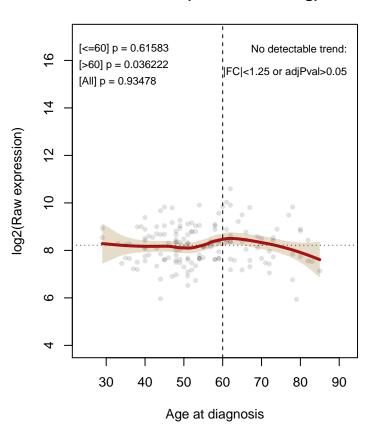
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

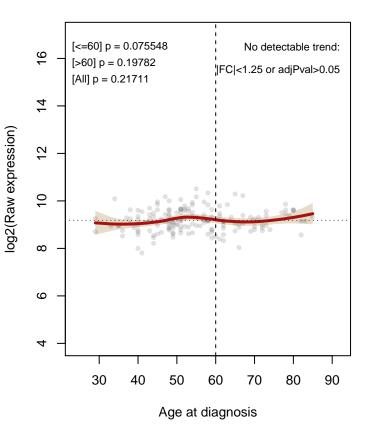
CDKN2D (non-ER binding)

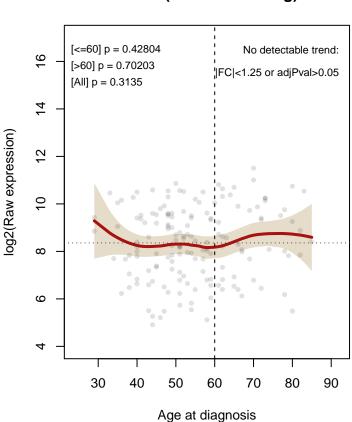




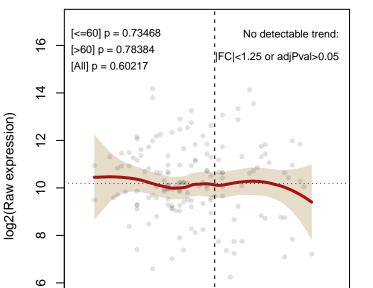
CHUK (non-ER binding)

CIITA (non-ER binding)

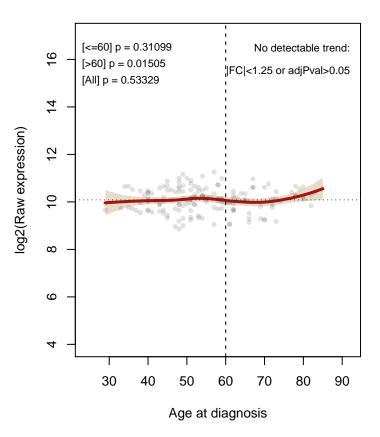




CLDN3 (non-ER binding)



CREB1 (non-ER binding)



CRYAB (non-ER binding)

Age at diagnosis

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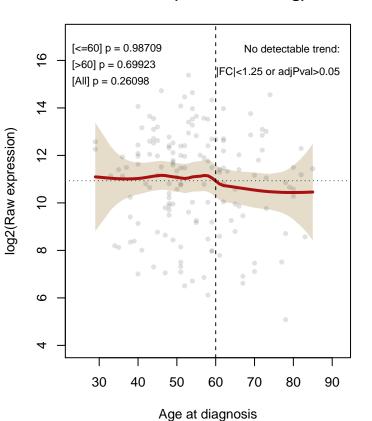
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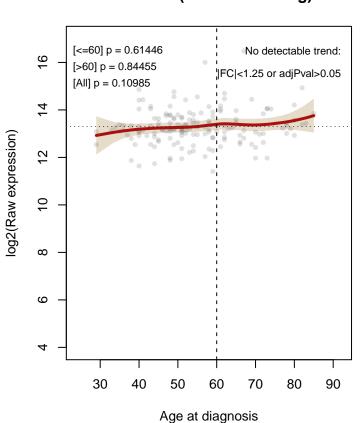
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CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.29939No detectable trend: [<=60] p = 0.24075No detectable trend: 16 16 [>60] p = 0.25213 [>60] p = 0.020128 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.61769[All] p = 0.0115264 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 **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.15681No detectable trend: [<=60] p = 0.33153No detectable trend: 16 16 [>60] p = 0.89681 [>60] p = 0.9791 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.89763[All] p = 0.552724 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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Age at diagnosis

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DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.82373No detectable trend: [<=60] p = 0.89602No detectable trend: 16 16 [>60] p = 0.23854 [>60] p = 0.040946 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.51803[All] p = 0.583834 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 E2F1 (non-ER binding) E2F2 (non-ER binding) [<=60] p = 0.74544No detectable trend: [<=60] p = 0.88934No detectable trend: 16 16 [>60] p = 0.35266[>60] p = 0.036075 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.034109[All] p = 0.524664 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ∞ 9 9

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Age at diagnosis

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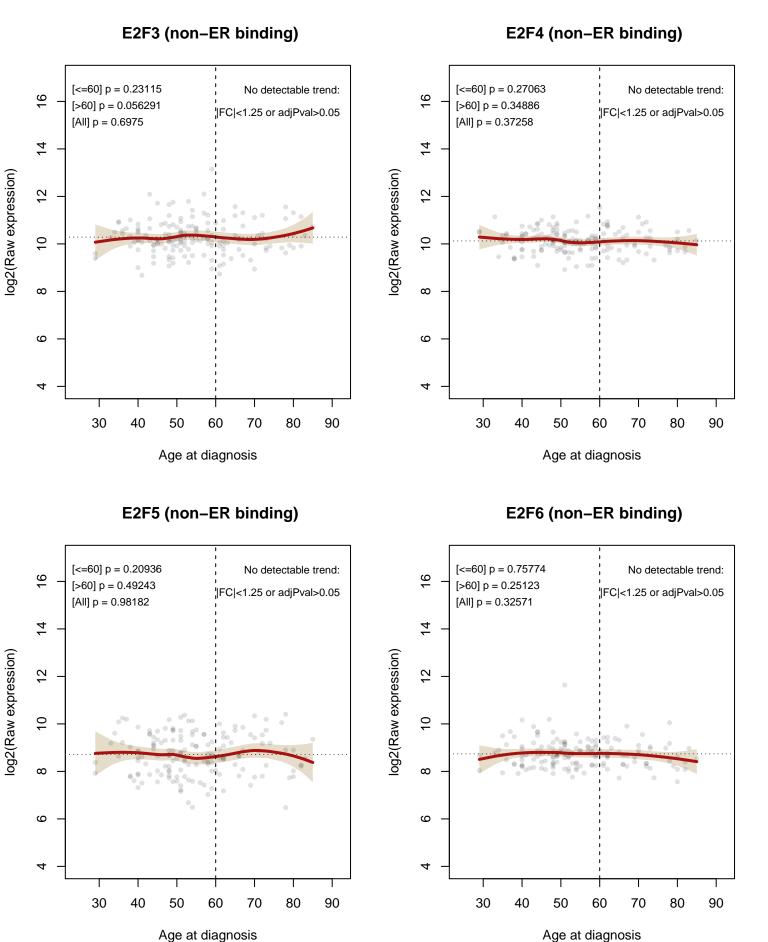
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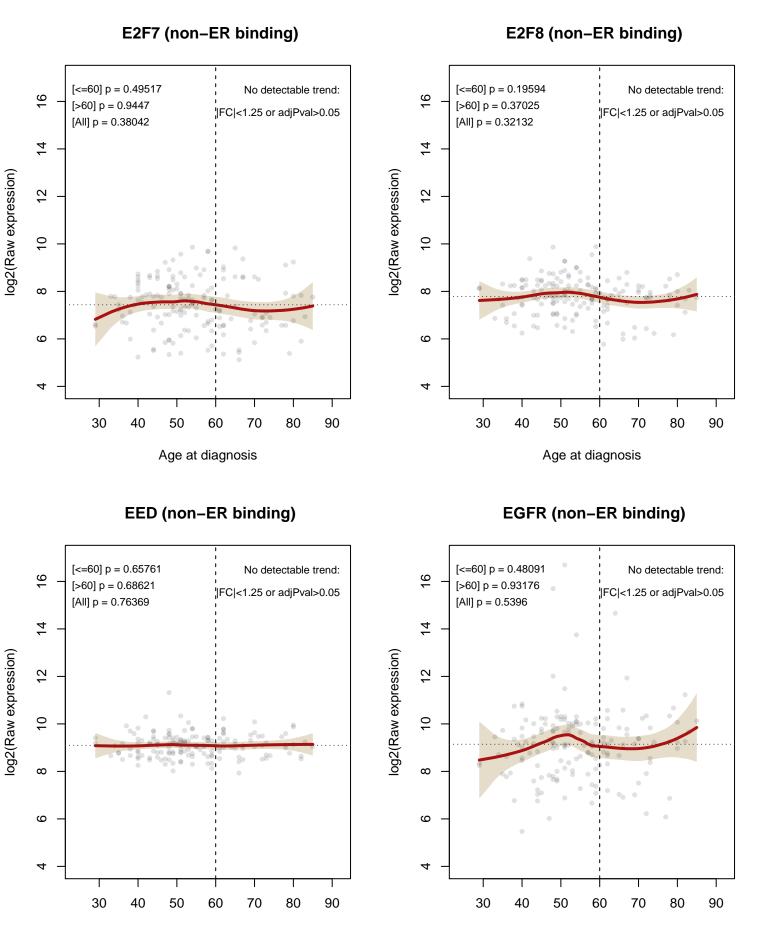
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Age at diagnosis

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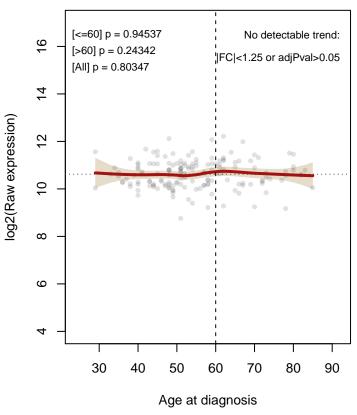


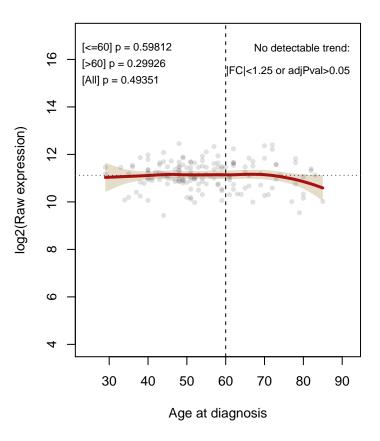
Age at diagnosis

Age at diagnosis



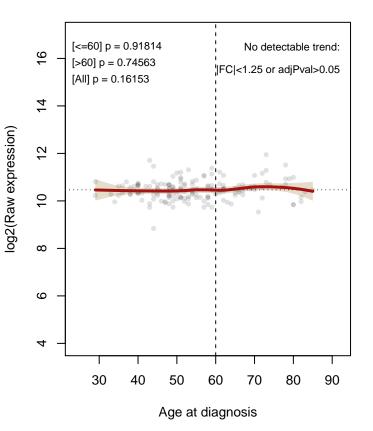
EHMT2 (non-ER binding)

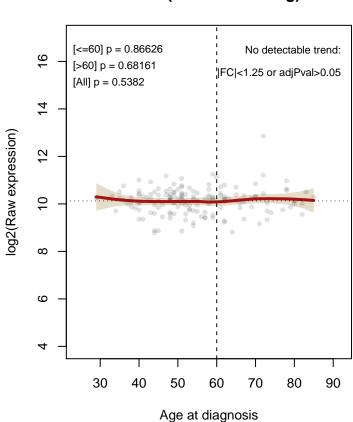


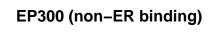


ELAC2 (non-ER binding)

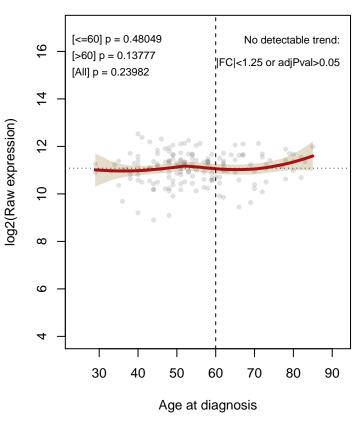
ELK1 (non-ER binding)

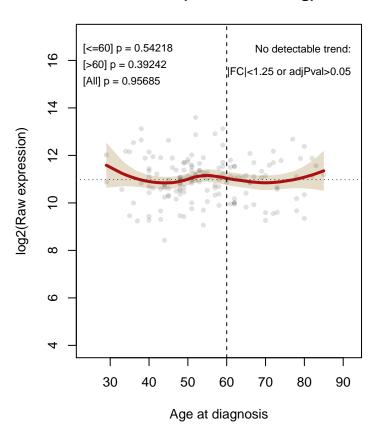






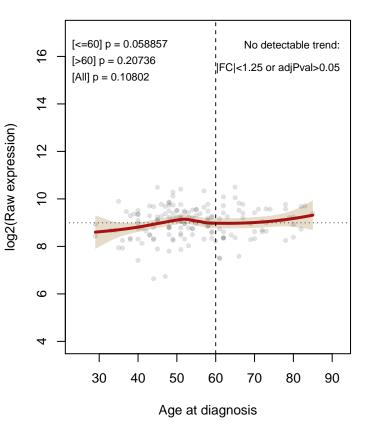
EPAS1 (non-ER binding)

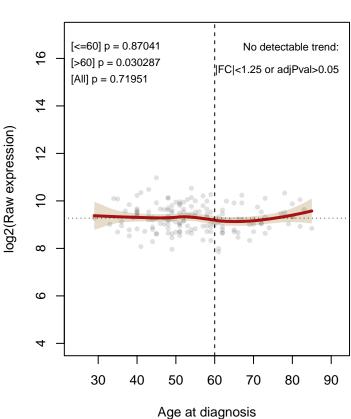


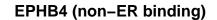


EPC1 (non-ER binding)

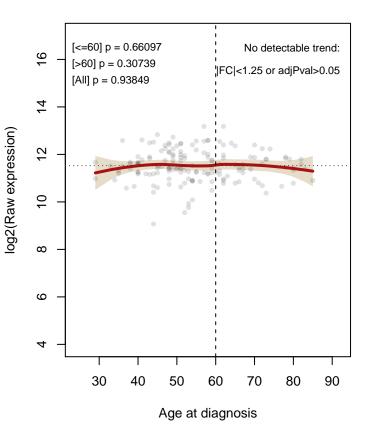
EPC2 (non-ER binding)

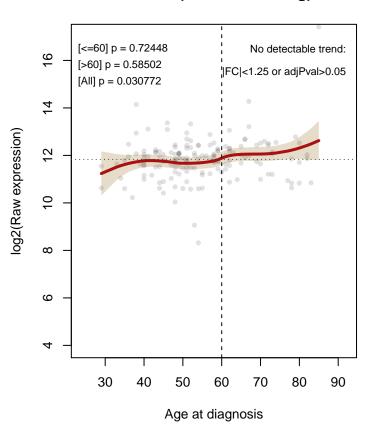






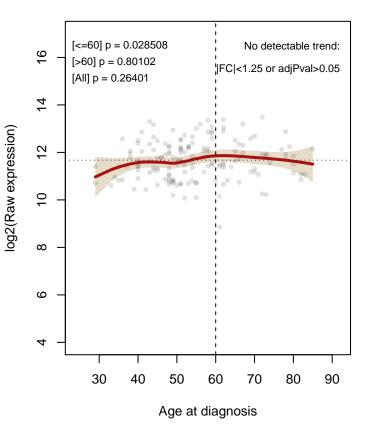
ERBB2 (non-ER binding)

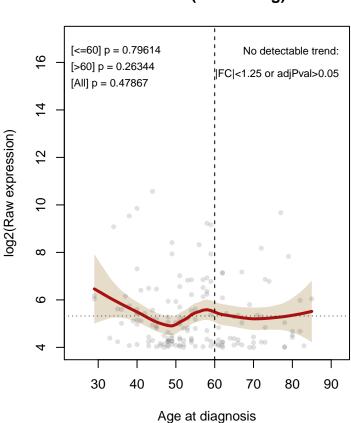


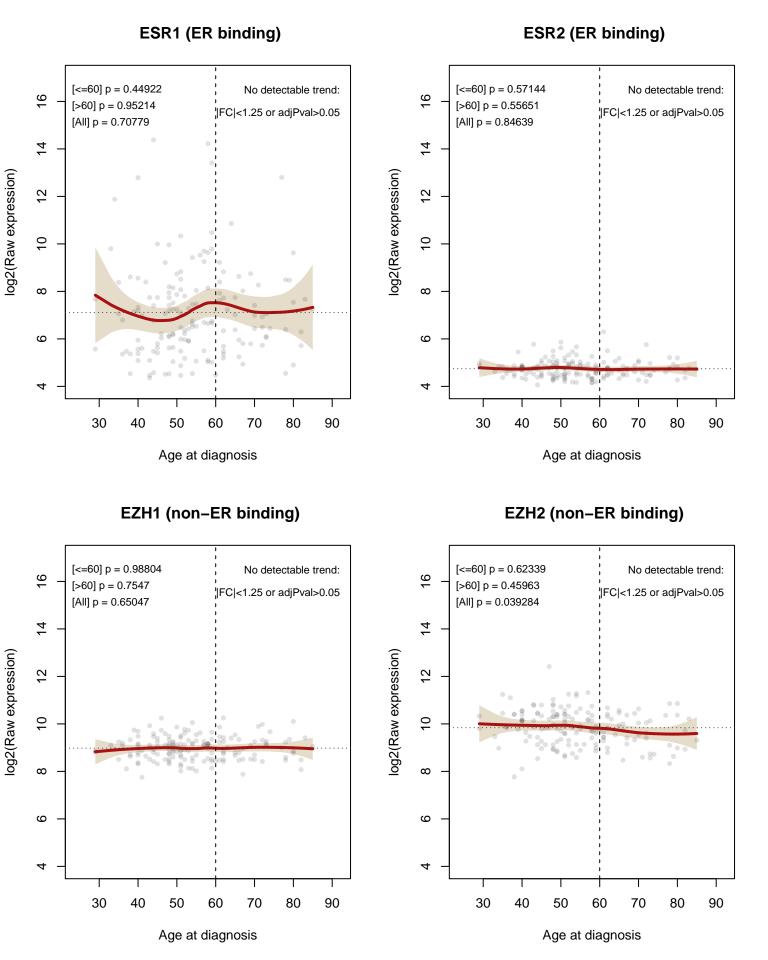


ERBB3 (non-ER binding)

ERBB4 (ER binding)







FOSL1 (non-ER binding) FOS (non-ER binding) [<=60] p = 0.32845No detectable trend: [<=60] p = 0.24833No detectable trend: 16 16 [>60] p = 0.58607[>60] p = 0.66489 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.73893[AII] p = 0.546694 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **FOXC1 (ER binding)** FOXA1 (ER binding) [<=60] p = 0.63271 No detectable trend: [<=60] p = 0.7572No detectable trend: 16 16 [>60] p = 0.05505 [>60] p = 0.1491 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.83405[All] p = 0.734244 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

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Age at diagnosis

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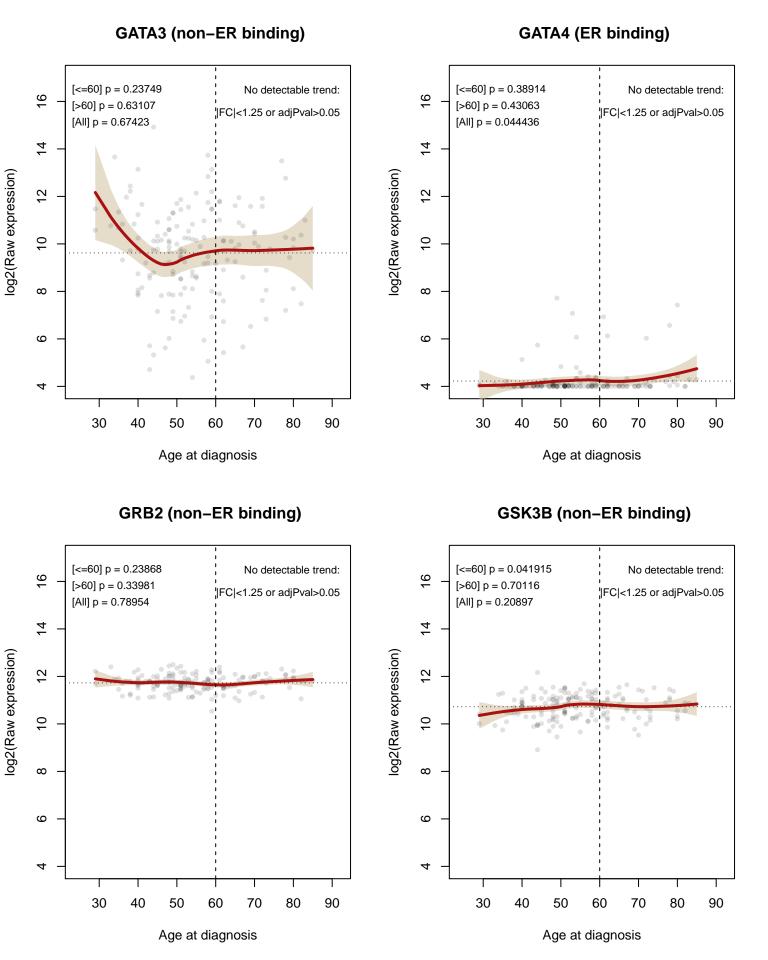
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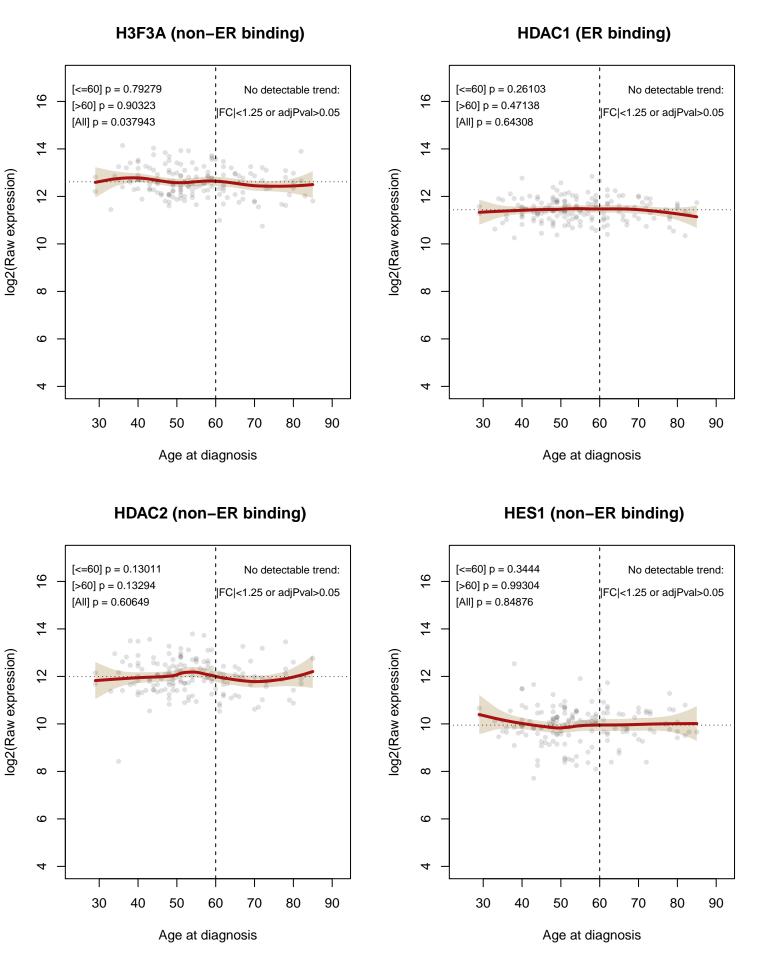
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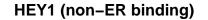
Age at diagnosis

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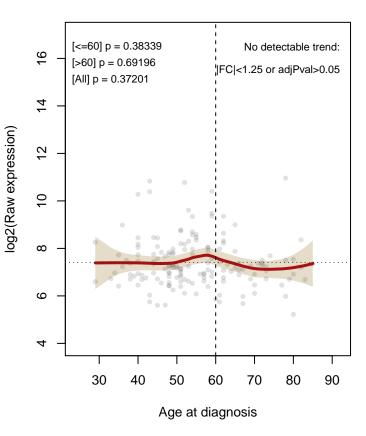
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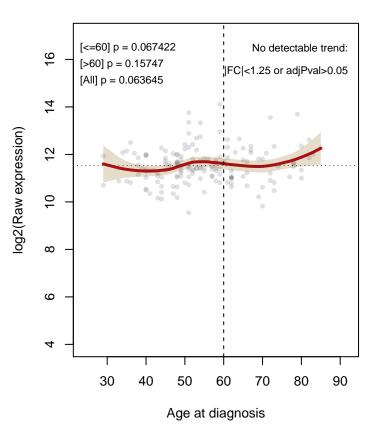






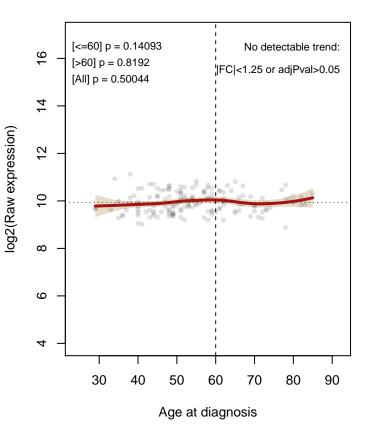
HIF1A (non-ER binding)

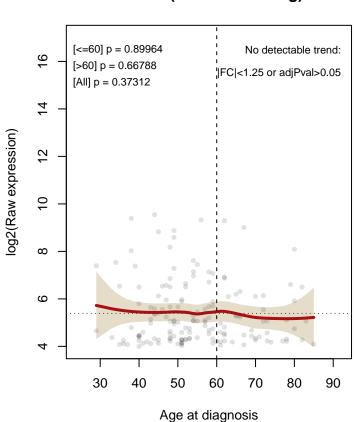




HIF1AN (non-ER binding)

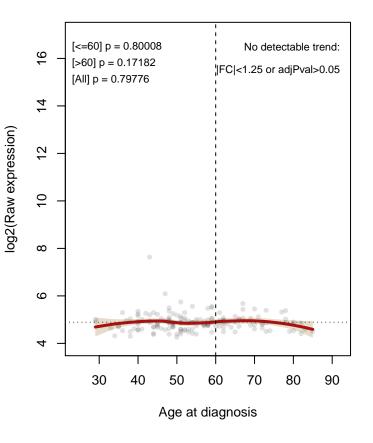
HIF3A (non-ER binding)

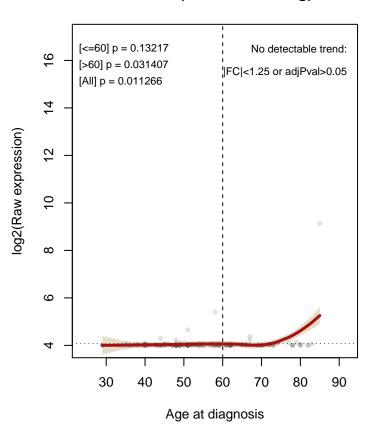






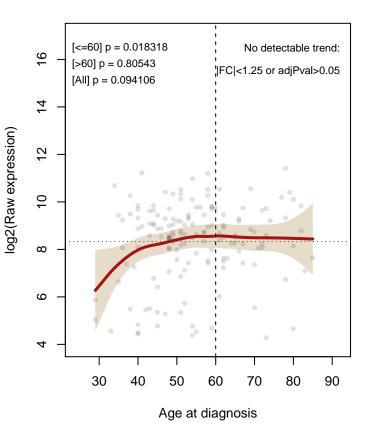
HNF1B (non-ER binding)

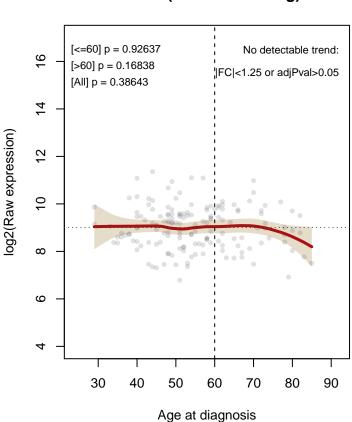




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) [<=60] p = 0.45222No detectable trend: 16 [>60] p = 0.34164 |FC|<1.25 or adjPval>0.05 [AII] p = 0.997224 log2(Raw expression) 12 10

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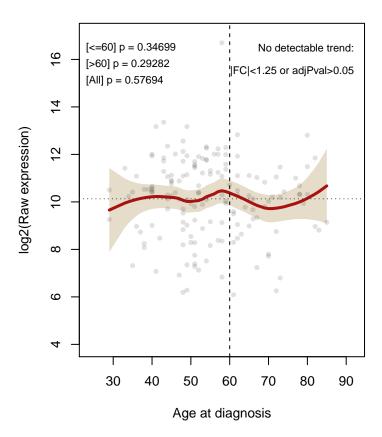
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IGF1R (ER binding)



IGFBP2 (non-ER binding)

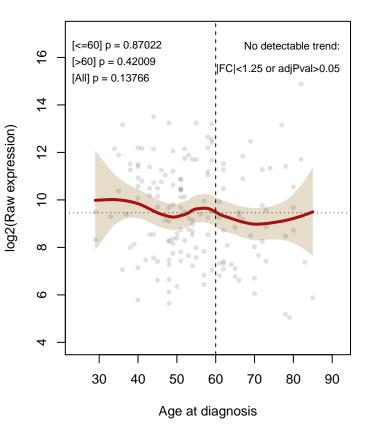
Age at diagnosis

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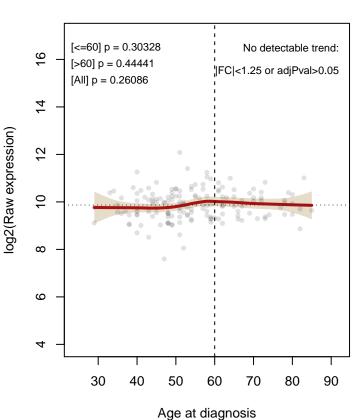
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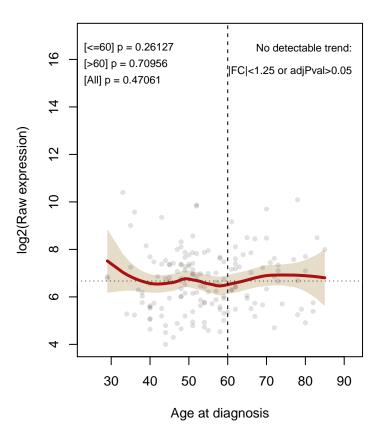


IKBKB (ER binding)



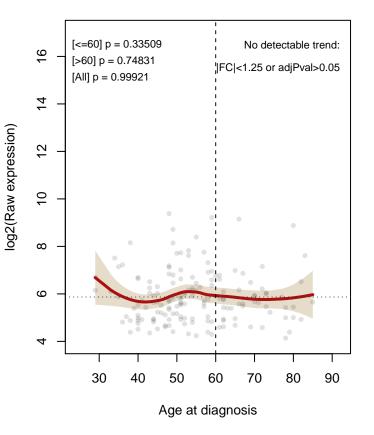
IKBKG (ER binding) [<=60] p = 0.4961No detectable trend: 16 [>60] p = 0.00059601 |FC|<1.25 or adjPval>0.05 [All] p = 0.142364 log2(Raw expression) 12 10 ∞ 9 30 40 50 60 70 80 90

IL2RA (non-ER binding)

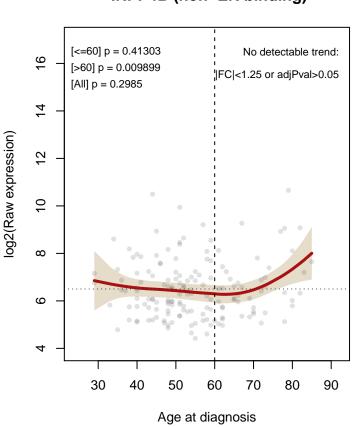


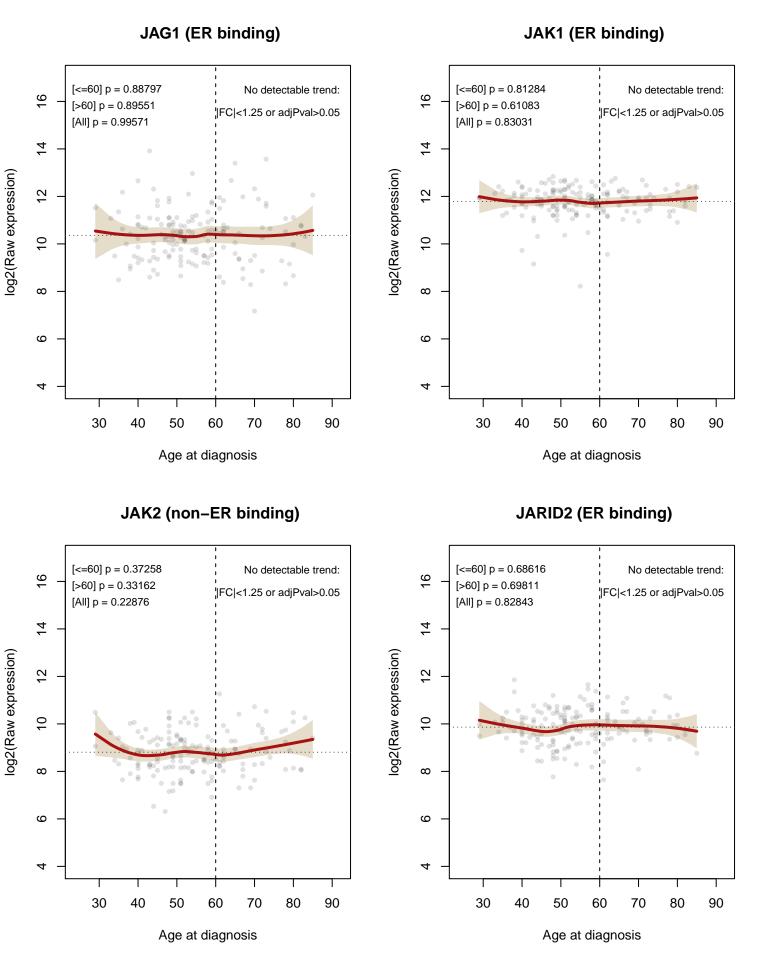
IL6 (non-ER binding)

Age at diagnosis

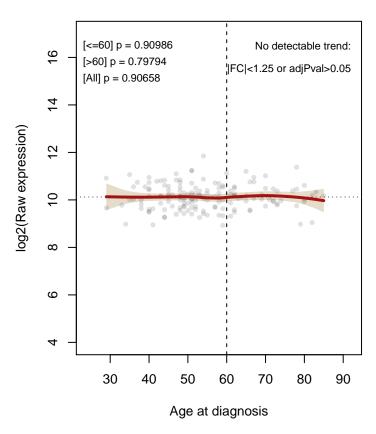


INPP4B (non-ER binding)



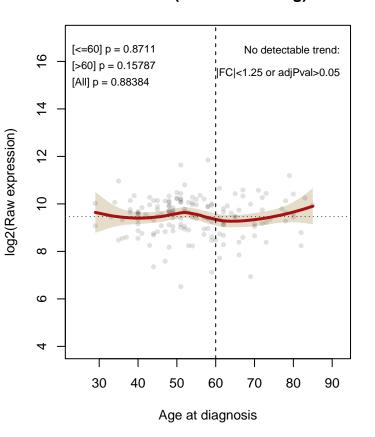


KDM2B (non-ER binding)

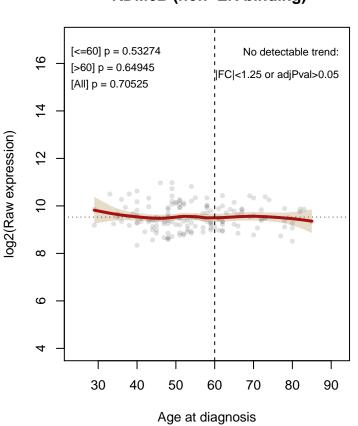


KDM6A (non-ER binding)

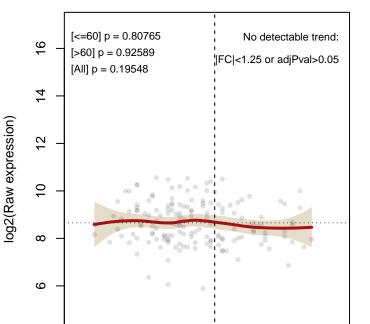
Age at diagnosis



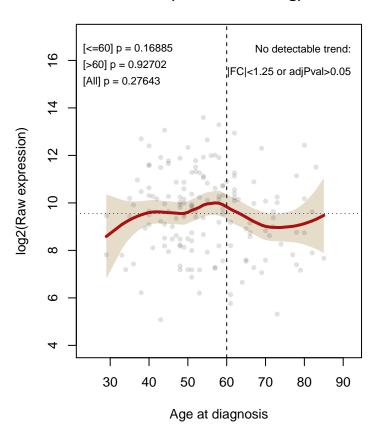
KDM6B (non-ER binding)





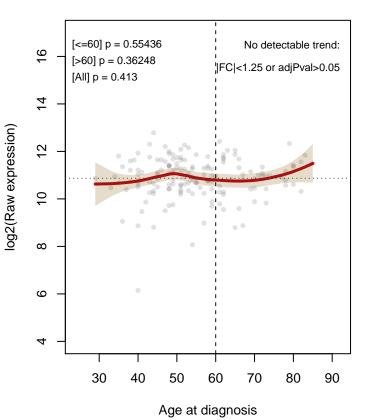


KIT (non-ER binding)

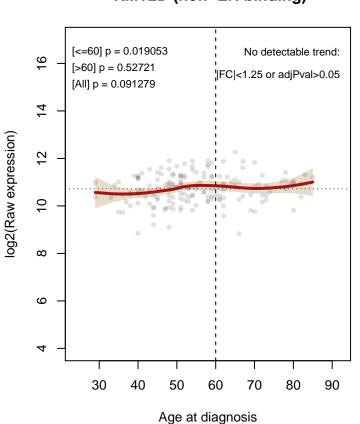


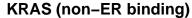
KMT2C (non-ER binding)

Age at diagnosis

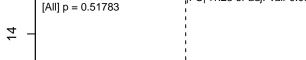


KMT2D (non-ER binding)

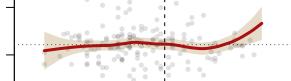








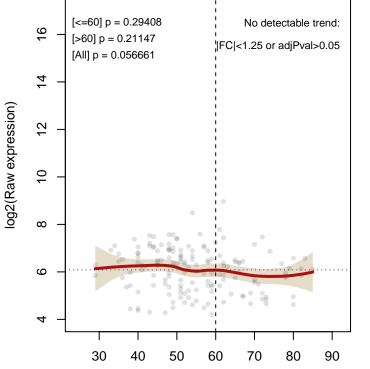
log2(Raw expression)





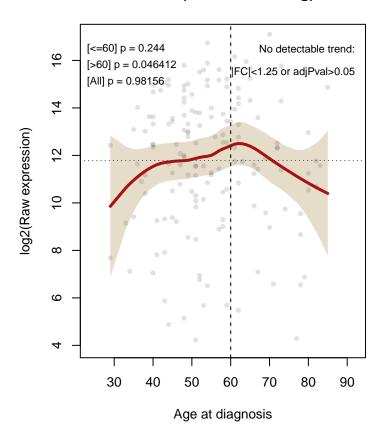
Age at diagnosis

L3MBTL1 (non-ER binding)

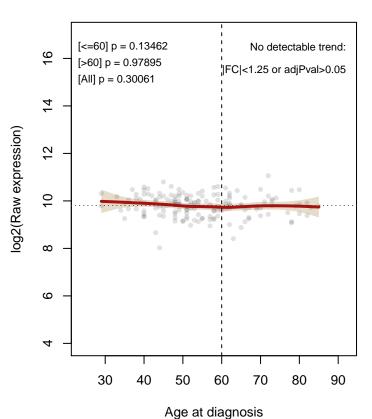


Age at diagnosis

KRT5 (non-ER binding)

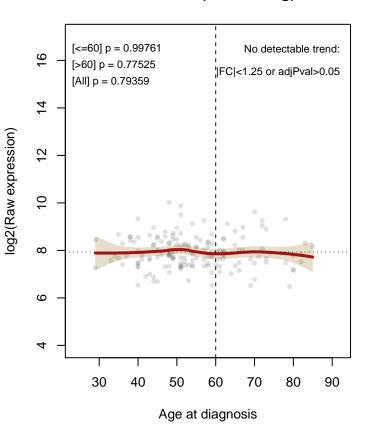


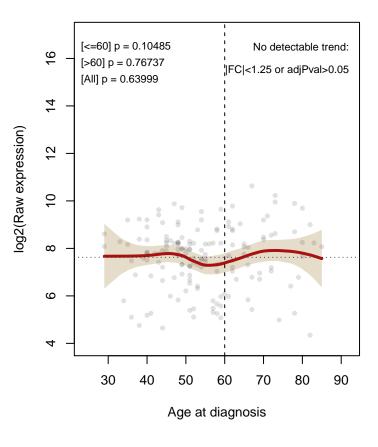
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

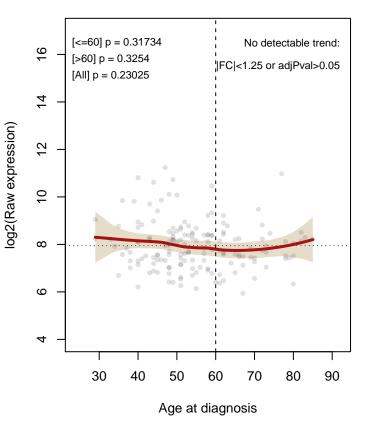
L3MBTL4 (non-ER binding)

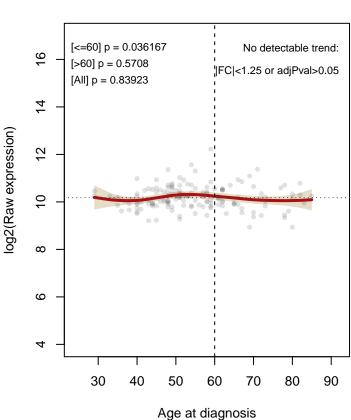




LEF1 (non-ER binding)

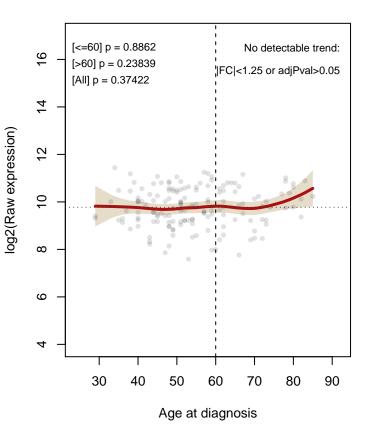
MAP2K1 (non-ER binding)

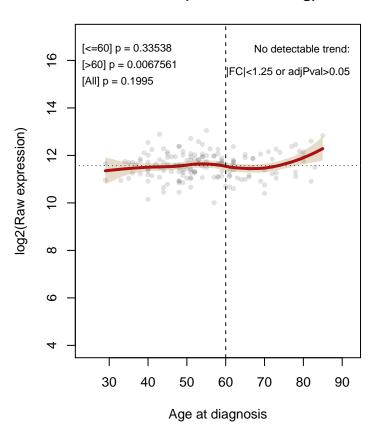






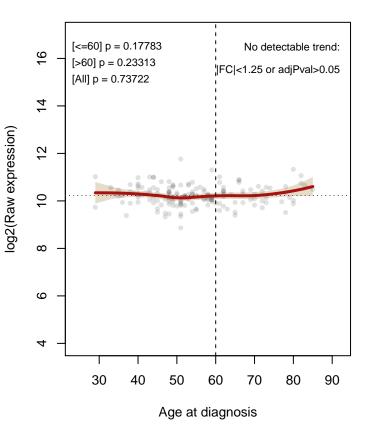
MAPK1 (non-ER binding)

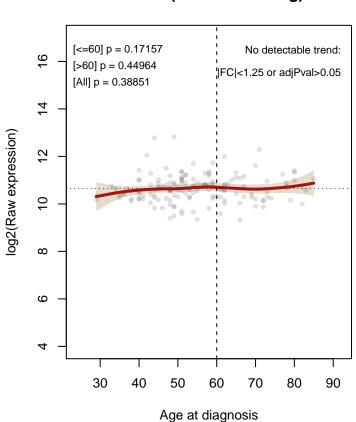




MAPK3 (non-ER binding)

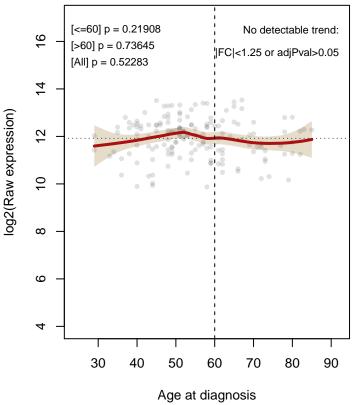
MDM2 (non-ER binding)

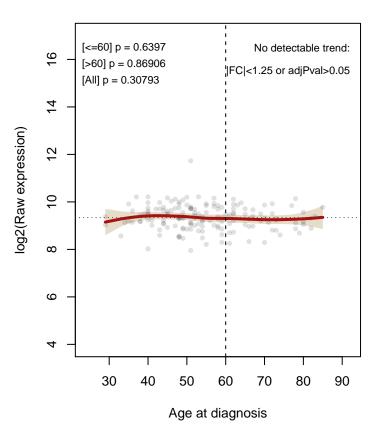






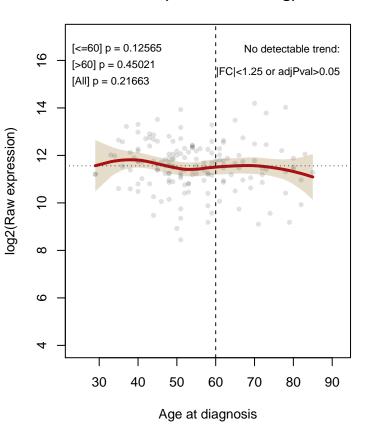
MTF2 (non-ER binding)

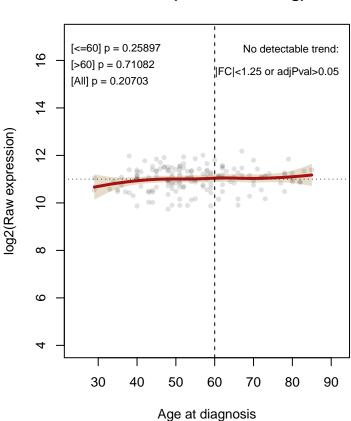




MYC (non-ER binding)

NCOA6 (non-ER binding)





NCOR1 (non-ER binding) **NES (non-ER binding)** [<=60] p = 0.35524No detectable trend: [<=60] p = 0.5557No detectable trend: 16 16 [>60] p = 0.015872 [>60] p = 0.7286|FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.021192[AII] p = 0.39324 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 NFKB1 (non-ER binding) NFKB2 (non-ER binding) [<=60] p = 0.61277No detectable trend: [<=60] p = 0.16894No detectable trend: 16 16 [>60] p = 0.056511 [>60] p = 0.66817 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.60087[AII] p = 0.88094 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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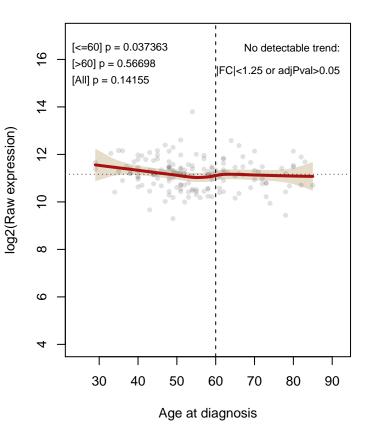
Age at diagnosis

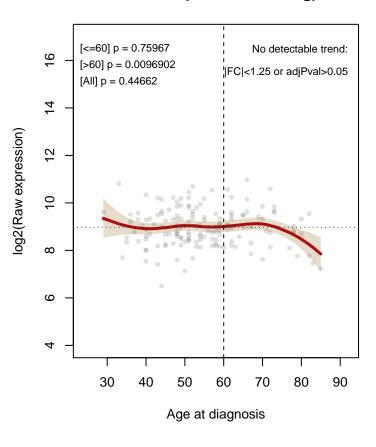
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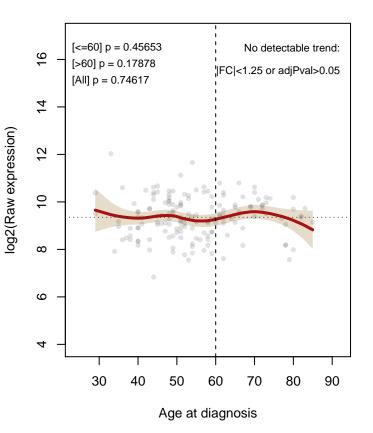
NFKBIB (non-ER binding)

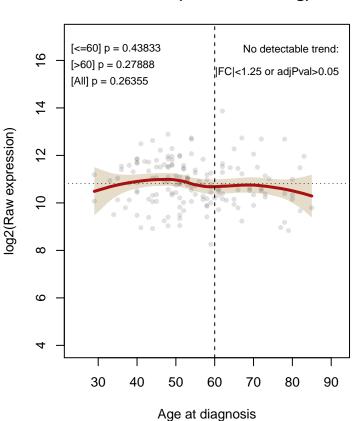




NFKBIE (non-ER binding)

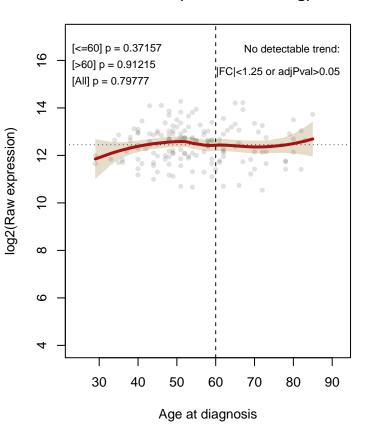
NOTCH1 (non-ER binding)

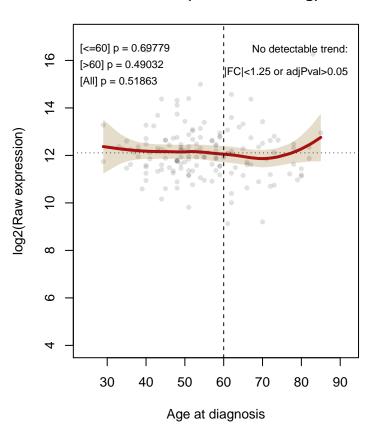




NOTCH2 (non-ER binding)

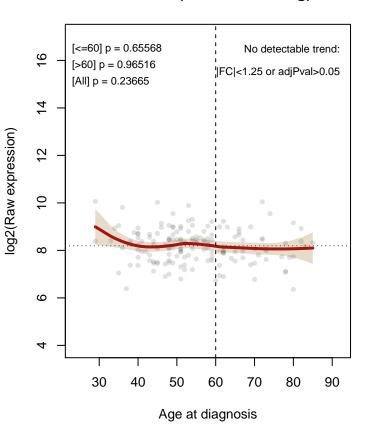
NOTCH3 (non-ER binding)

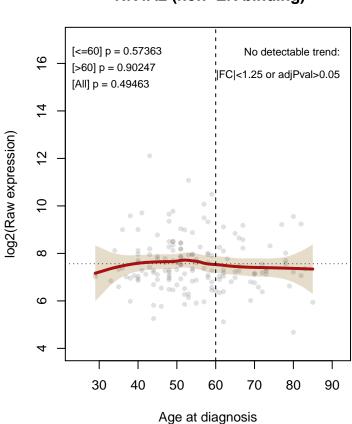


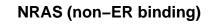


NOTCH4 (non-ER binding)

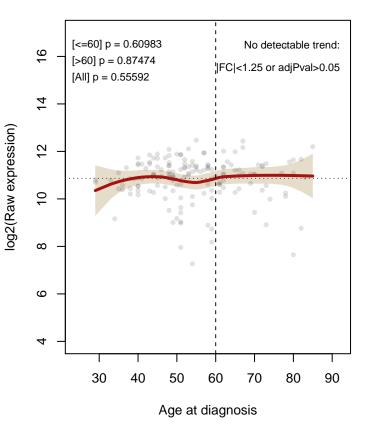
NR4A2 (non-ER binding)

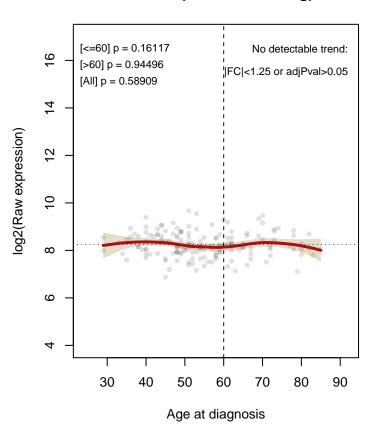






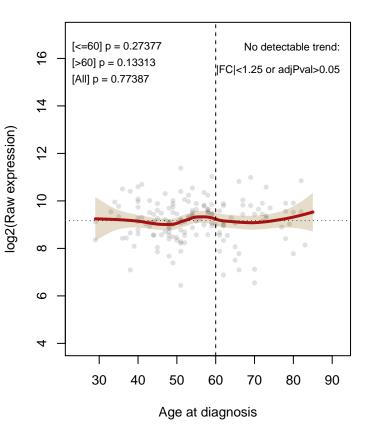
PCGF1 (non-ER binding)

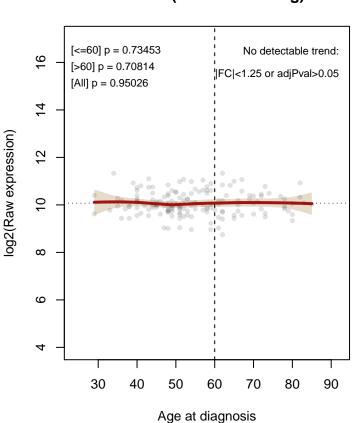




PCGF2 (non-ER binding)

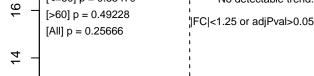
PCGF3 (non-ER binding)

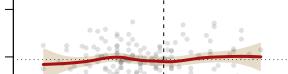






[<=60] p = 0.55479No detectable trend: [>60] p = 0.49228 |FC|<1.25 or adjPval>0.05





ω 9

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log2(Raw expression)

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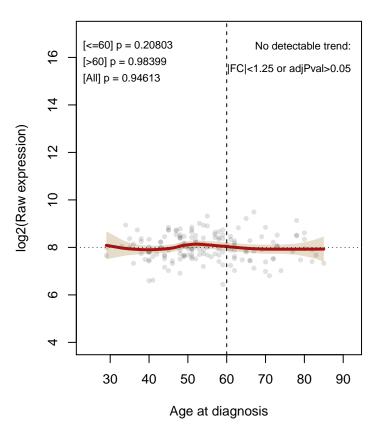
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PCGF6 (non-ER binding)

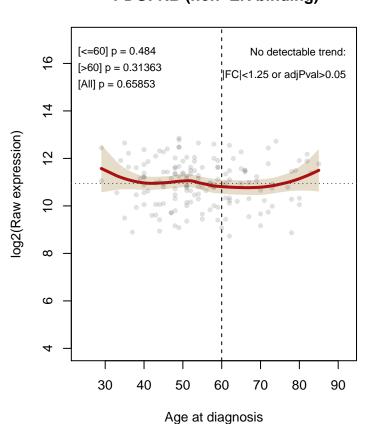


PDGFRA (non-ER binding)

[<=60] p = 0.25848No detectable trend: 16 [>60] p = 0.021894 |FC|<1.25 or adjPval>0.05 [All] p = 0.792434 log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

Age at diagnosis

PDGFRB (non-ER binding)



PDPK1 (non-ER binding) PEBP1 (non-ER binding) [<=60] p = 0.31216No detectable trend: [<=60] p = 0.32705No detectable trend: 16 16 [>60] p = 0.51476 [>60] p = 0.302 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [AII] p = 0.18624[All] p = 0.983624 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 PELP1 (non-ER binding) PGP (non-ER binding) [<=60] p = 0.70834 No detectable trend: [<=60] p = 0.18334No detectable trend: 16 16 [>60] p = 0.032605 [>60] p = 0.21557 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.26442[All] p = 0.212694 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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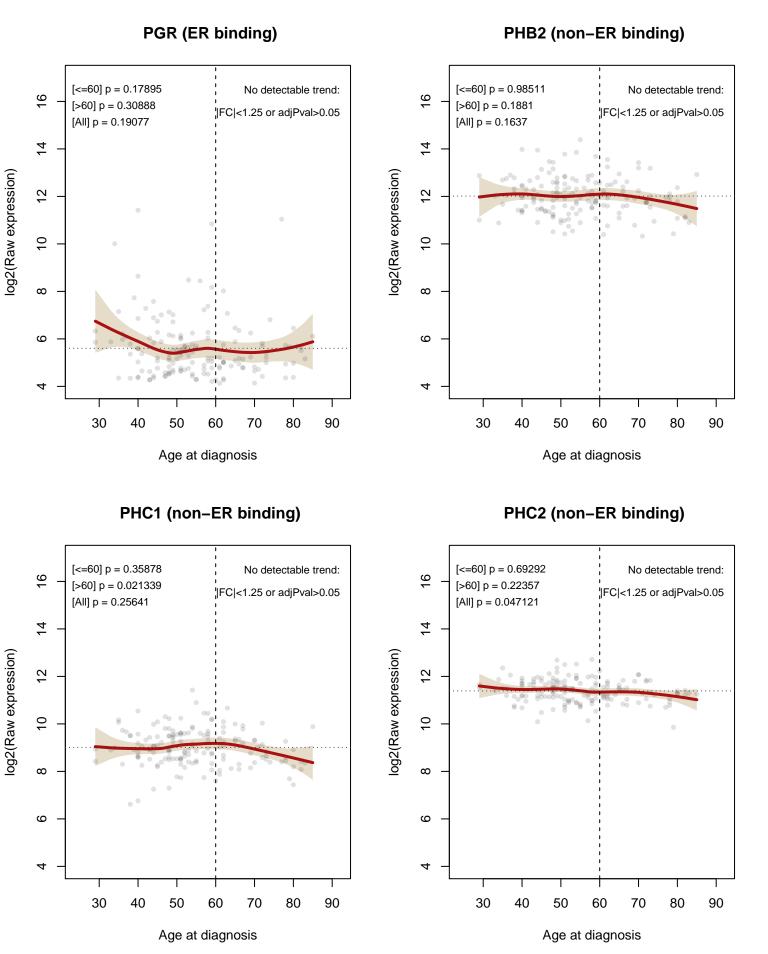
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Age at diagnosis

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PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.9946No detectable trend: [<=60] p = 0.9074No detectable trend: 16 16 [>60] p = 0.72995 [>60] p = 0.089365 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.66529[All] p = 0.943734 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 = 0.083592No detectable trend: [<=60] p = 0.92319No detectable trend: 16 16 [>60] p = 0.39343 [>60] p = 0.12102 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.12619[All] p = 0.233714 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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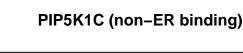
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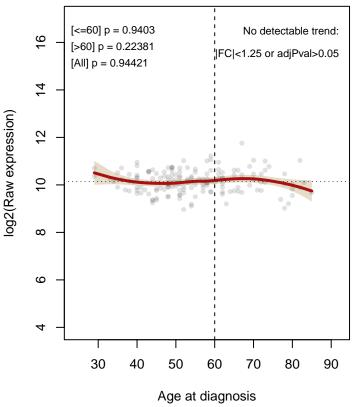
Age at diagnosis

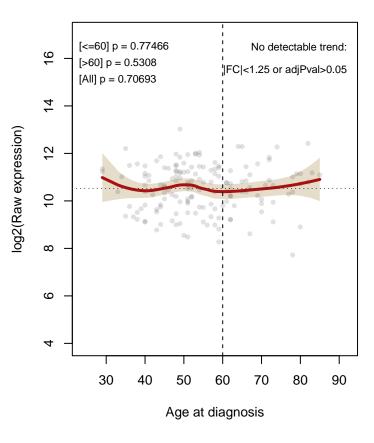
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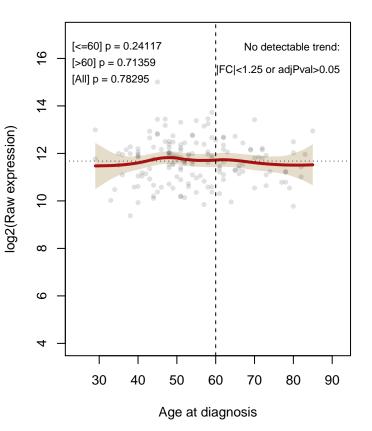
PLAU (non-ER binding)

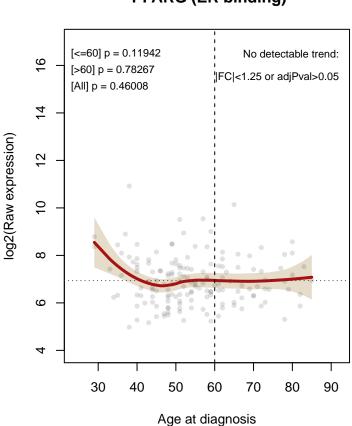


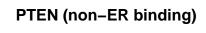


PODXL (non-ER binding)

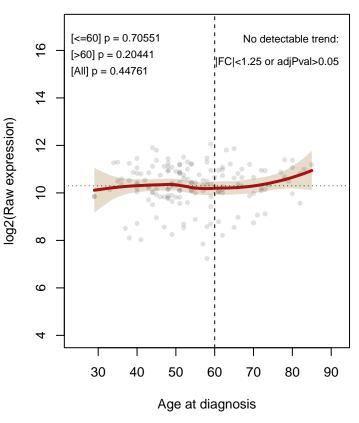
PPARG (ER binding)

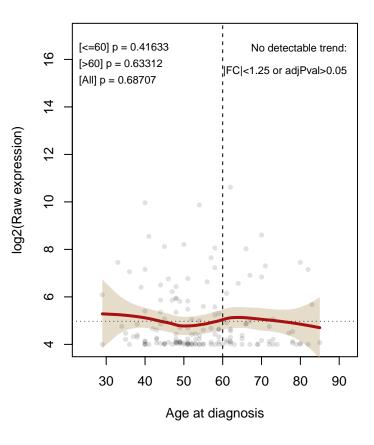






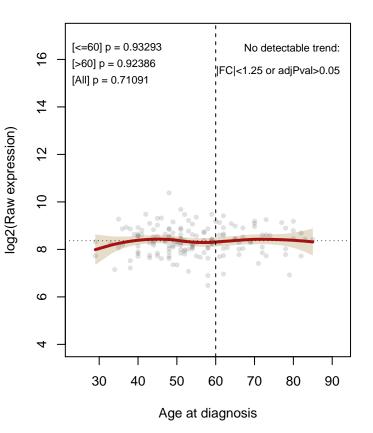
PYDC1 (non-ER binding)

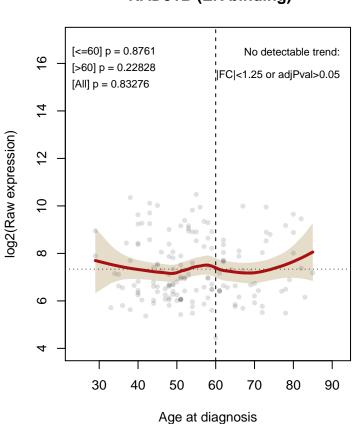


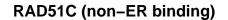


RAD51 (non-ER binding)

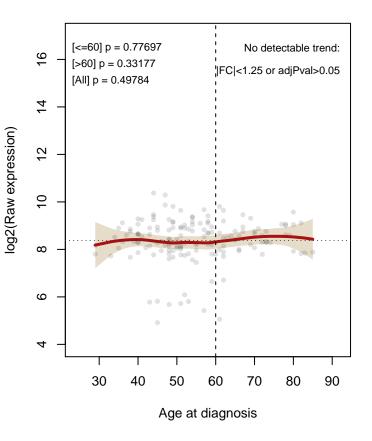
RAD51B (ER binding)

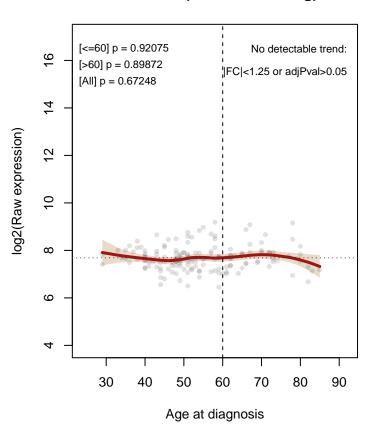






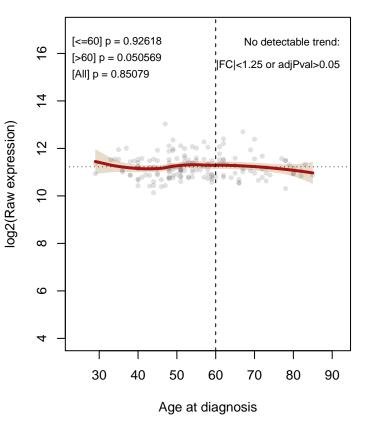
RAD51D (non-ER binding)

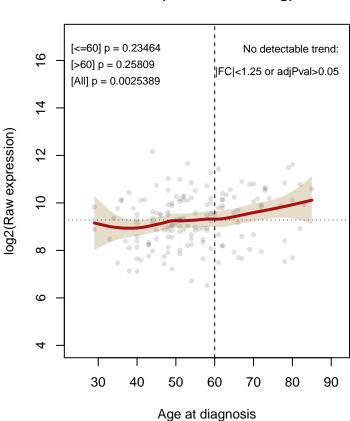




RAF1 (non-ER binding)

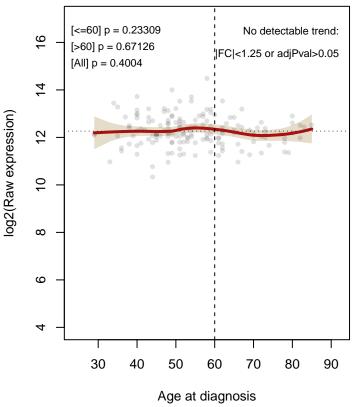
RB1 (non-ER binding)

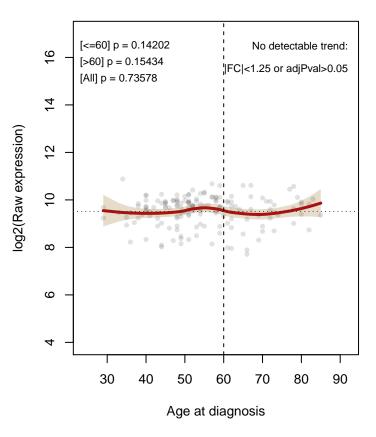




RBBP4 (non–ER binding)

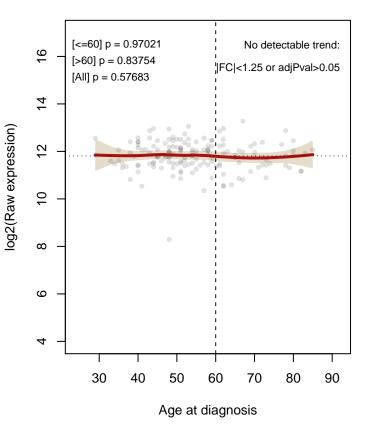
RBBP5 (non-ER binding)

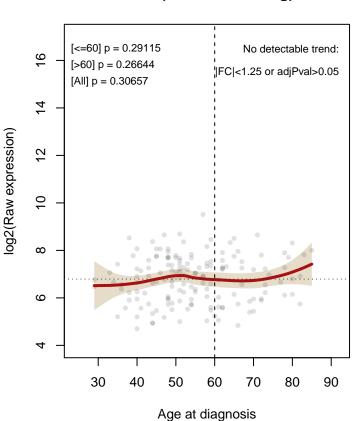


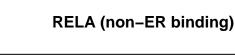


RBBP7 (non-ER binding)

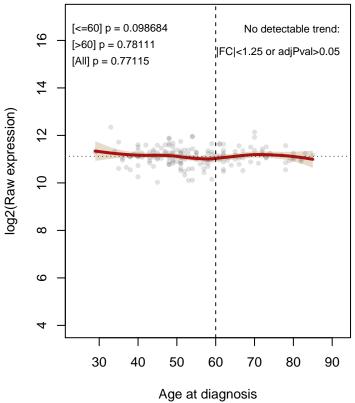
REL (non-ER binding)

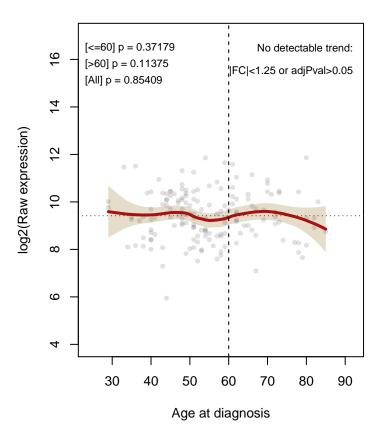






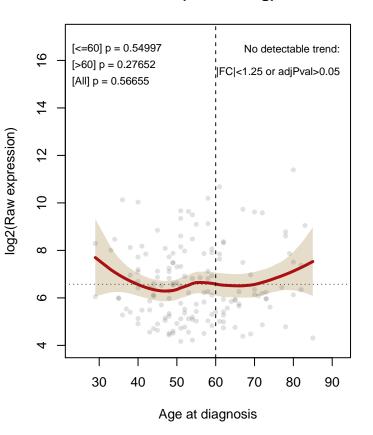
RELB (non-ER binding)

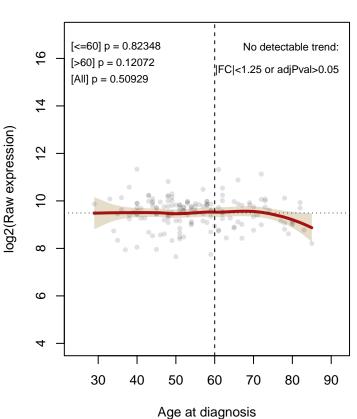


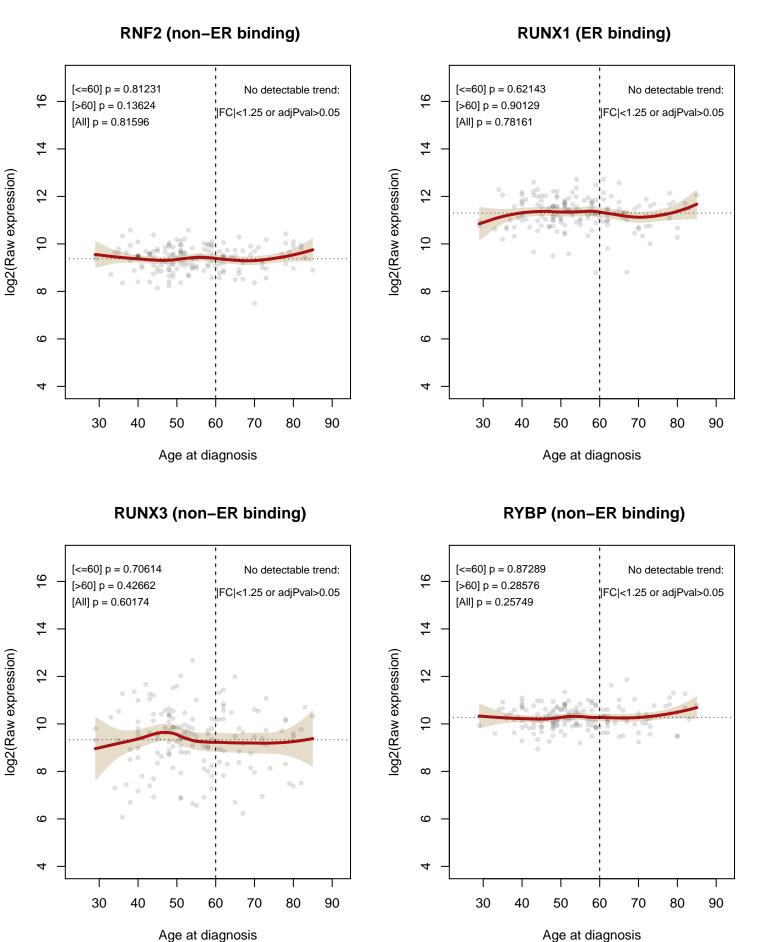


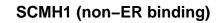
RET (ER binding)

RING1 (non-ER binding)

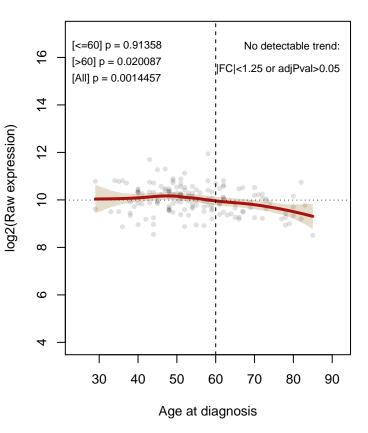


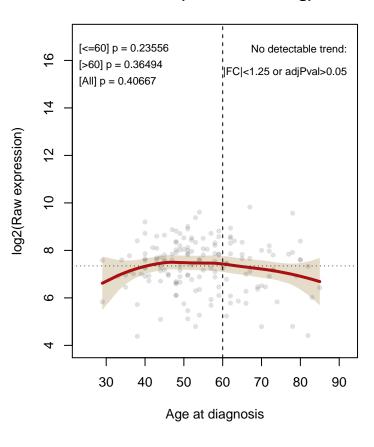






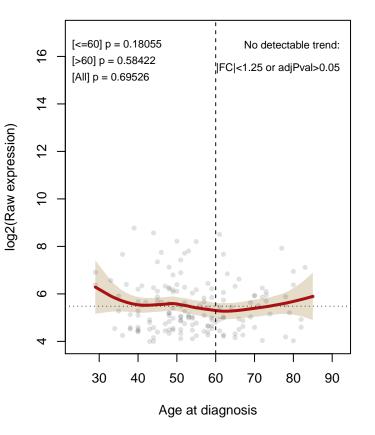
SCML2 (non-ER binding)

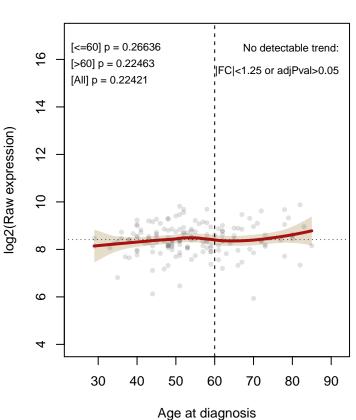




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.7865No detectable trend: [<=60] p = 0.42756No detectable trend: 16 16 [>60] p = 0.34762 [>60] p = 0.39227 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.17509[All] p = 0.147874 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 = 0.10932No detectable trend: [<=60] p = 0.55709No detectable trend: 16 16 [>60] p = 0.37026 [>60] p = 0.13009 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.82462[All] p = 0.263524 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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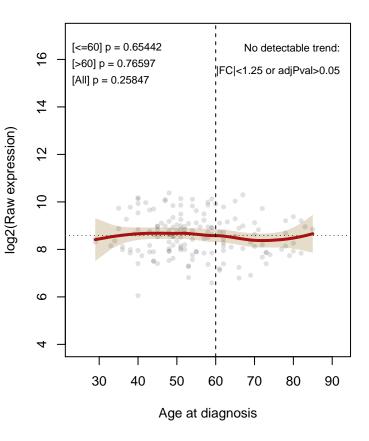
Age at diagnosis

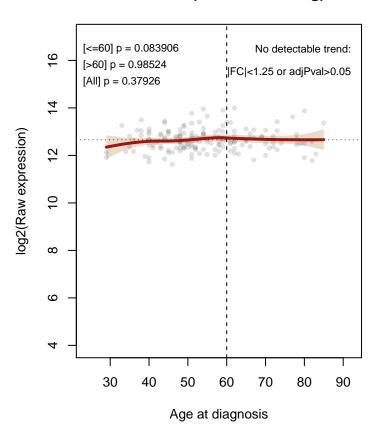
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SKP2 (non-ER binding)

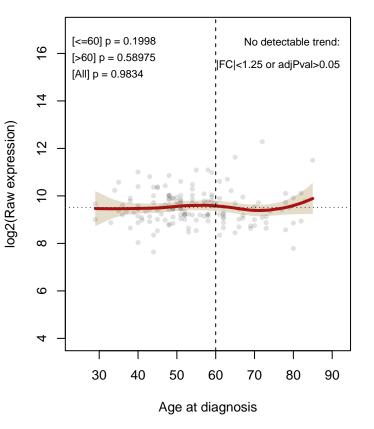
SLC25A3 (non-ER binding)

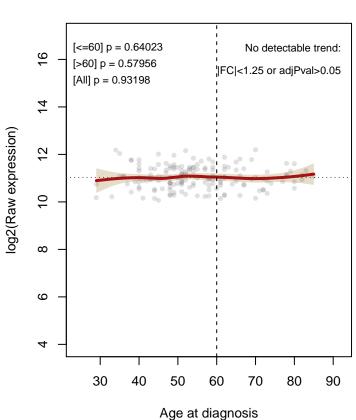


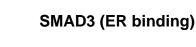


SMAD1 (non-ER binding)

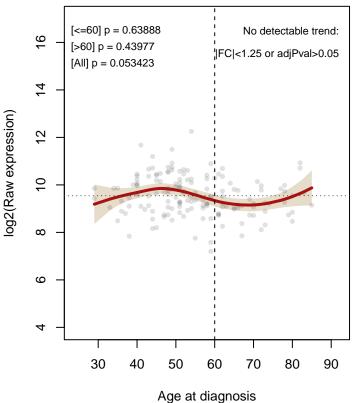
SMAD2 (non-ER binding)

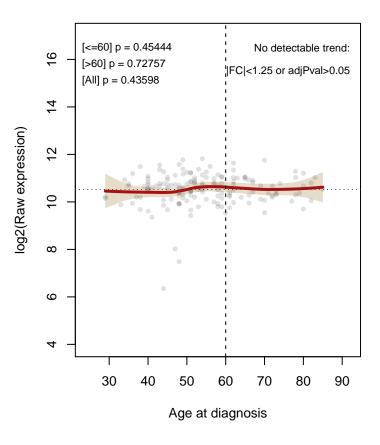






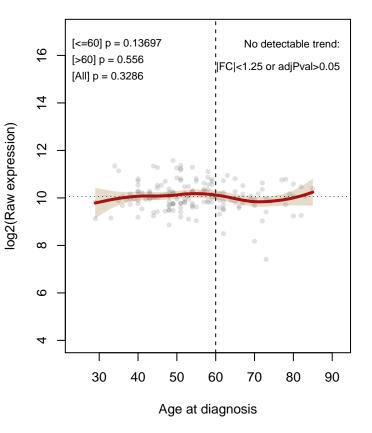
SMAD4 (non-ER binding)

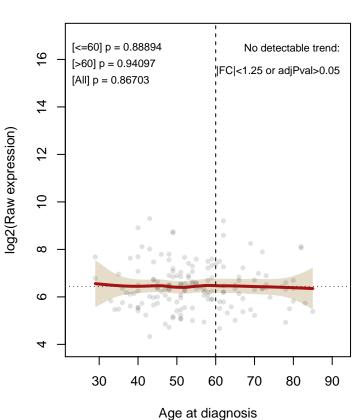




SMAD5 (non-ER binding)

SMAD6 (non-ER binding)





SMAD7 (non-ER binding) SMAD9 (non-ER binding) [<=60] p = 0.0283No detectable trend: [<=60] p = 0.19283No detectable trend: 16 16 [>60] p = 0.71258 [>60] p = 0.59263 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.32031[All] p = 0.922674 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 SOS1 (non-ER binding) SOS2 (non-ER binding) [<=60] p = 0.23934No detectable trend: [<=60] p = 0.31284No detectable trend: 16 16 [>60] p = 0.42981 [>60] p = 0.53535 |FC|<1.25 or adjPval>0.05 |FC|<1.25 or adjPval>0.05 [All] p = 0.43939[All] p = 0.763724 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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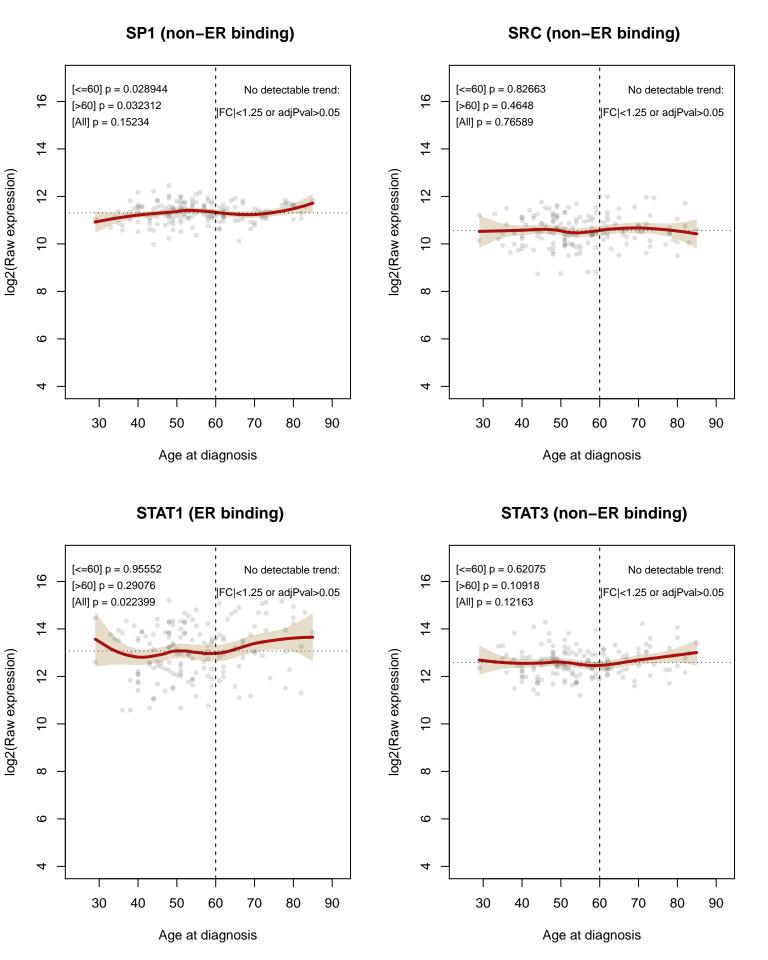
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Age at diagnosis

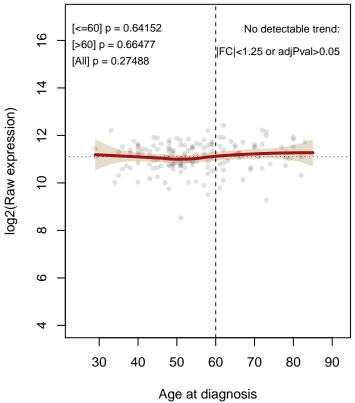
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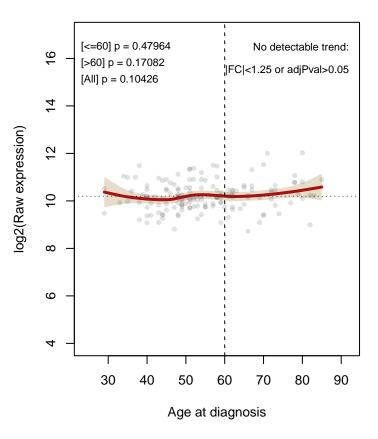
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STAT6 (non-ER binding)

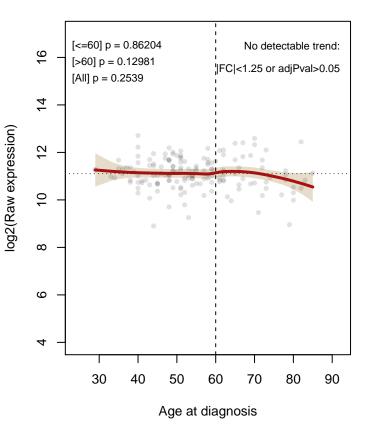
SUZ12 (non-ER binding)

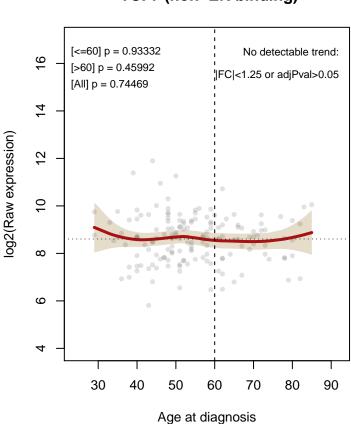




TCF3 (non-ER binding)

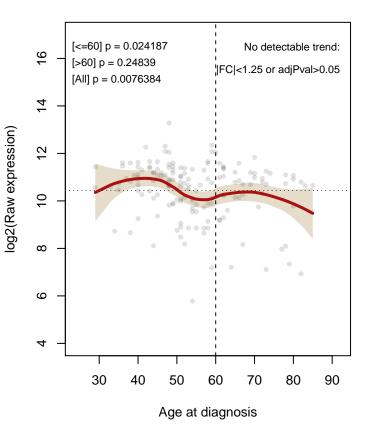
TCF7 (non-ER binding)

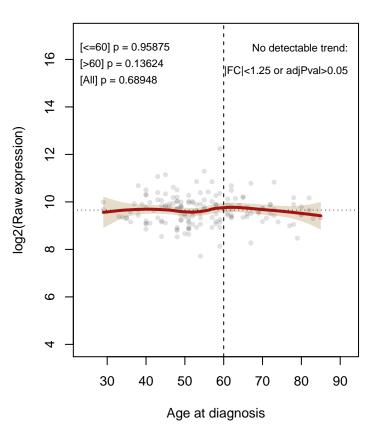






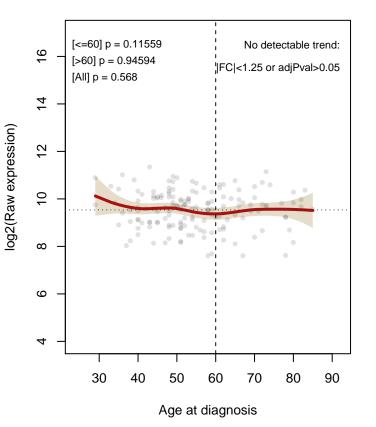
TCF7L2 (non-ER binding)

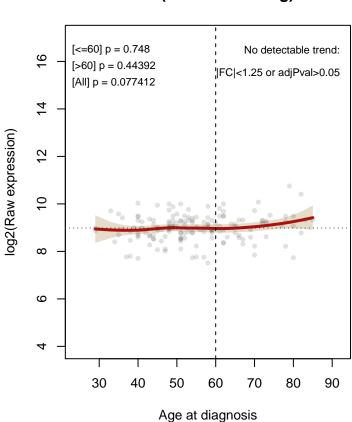


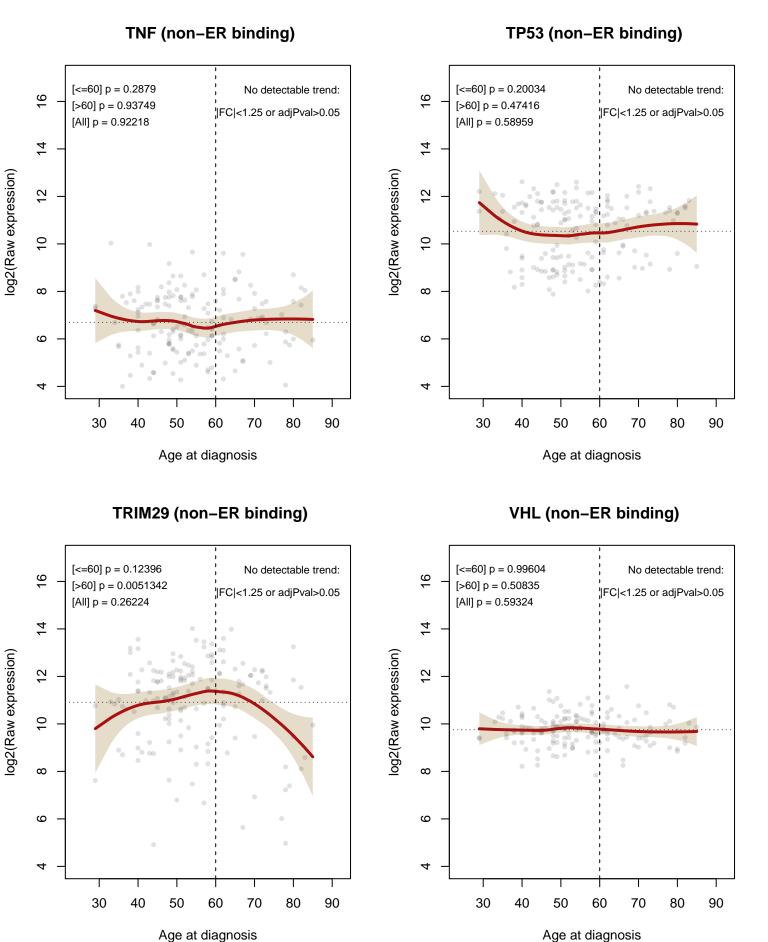


TGFB1 (non-ER binding)

TK2 (non-ER binding)

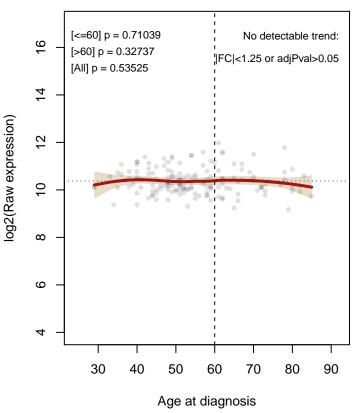


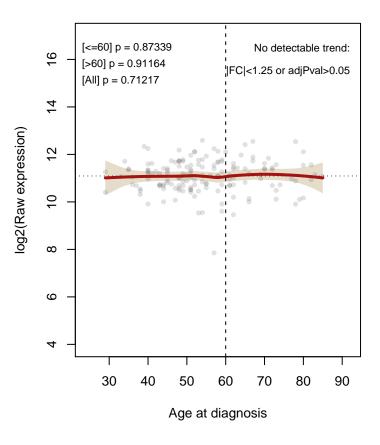






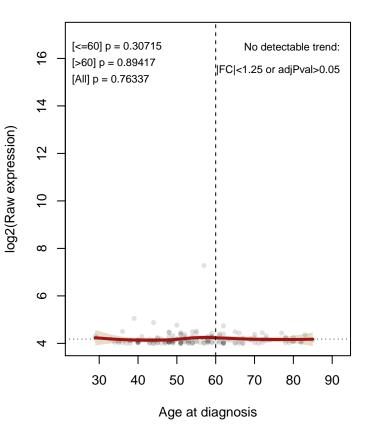
WHSC1 (non-ER binding)

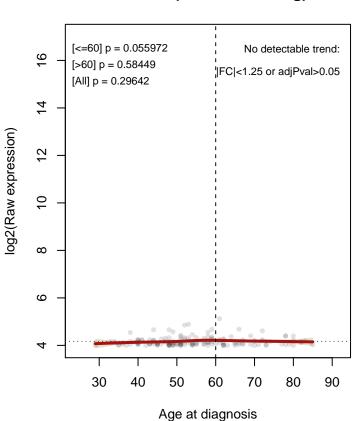


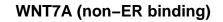


WNT1 (non-ER binding)

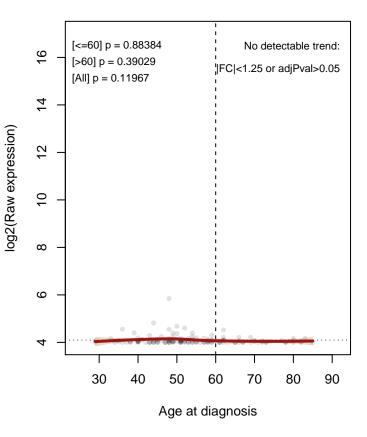
WNT3A (non-ER binding)

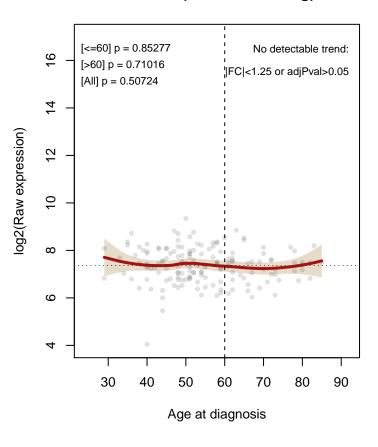






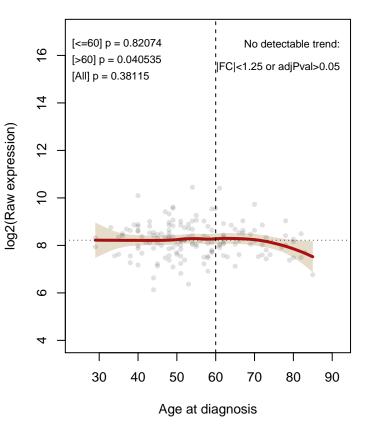
XRCC2 (non-ER binding)

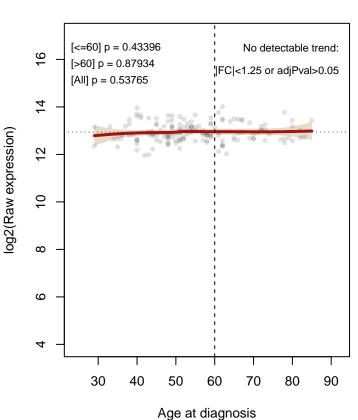




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)





YAF2 (non-ER binding)

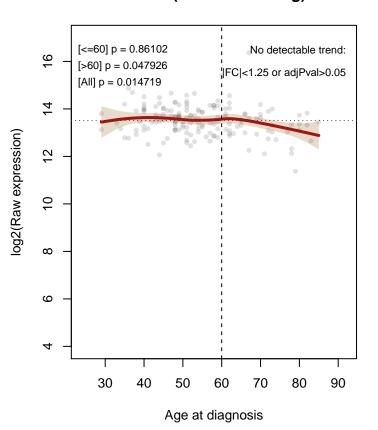
90 - [<=60] p = 0.74932 | No detectable trend: | FC|<1.25 or adjPval>0.05 | PC|<1.25 or adjPval>0.05 | No detectable trend: | FC|<1.25 | No detect

30

40

50

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

60

70

80

